



पंडित रविशंकर शुक्ल विश्वविद्यालय, रायपुर छत्तीसगढ़ भारत
Pt. Ravishankar Shukla University, Raipur Chhattisgarh, India
Estd-1964 – recognized by UGC U/s 2(f) and 12 (B)
NAAC “A” Grade

CRITERION-VI

EVIDENCE(S), AS PER SOP

METRIC No. 6.3.3	Number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the year.
<ul style="list-style-type: none">• Event brochures and reports of the programmes	



Human Resource Development Centre

Faculty Induction Program

GURU – DAKSHATA

August-3rd, September-6th, 2021



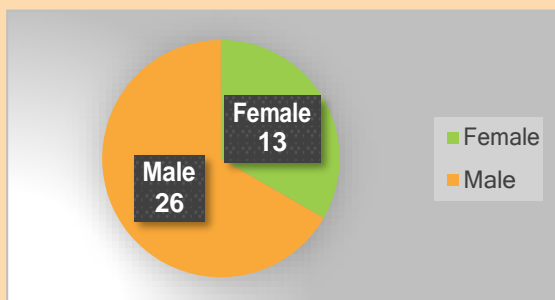
Report

Name of Course/Program:	Faculty Induction Program (FIP)
Name of Contact person from HRDC:	Dr. Brijendra Pandey
Date of Course/Program:	03.08.2021 to 06.09.2021
Name of Course Coordinator:	Dr. Brijendra Pandey
Theme of Course/Program:	Gurudakshata
Number of Participants:	39
State wise number of participants:	4 (Bihar-03, Chhattisgarh.-14, Madhya Pradesh-01, West Bengal-21)
No. of Resource Persons:	55
Name and Signature of Course Coordinator	

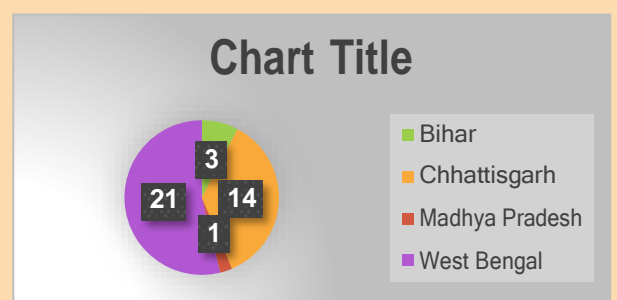
Faculty Induction Program - 01

03/08/2021 – 06/09/2021

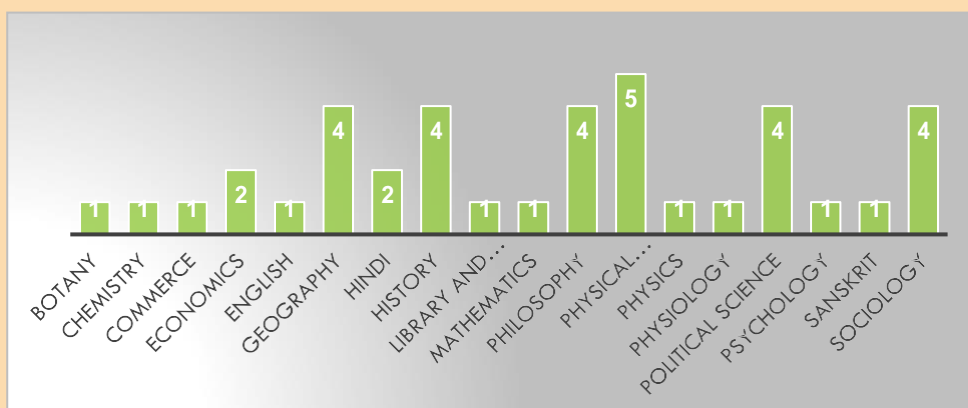
Faculty Induction Program (**GURU-DAKSHTA**) of one month from 03/08/2021 to 06/09/2021 was conducted under the ambitious plan of the Ministry of Human Resource Development, Pt. Madan Mohan Malaviya National Mission on Teachers and Education. The main objective of this program was to provide information related to technical and educational aspects of higher education to newly appointed assistant professors in colleges and universities. Thirty-nine assistant professors from four states namely Bihar, Madhya Pradesh, West Bengal and Chhattisgarh participated in this program. Out of which 05 were from Physical Education, 04 from History, Geography, Philosophy, Political Science and Sociology respectively, 02 - 02 from Hindi and Economics and 01 from English, Botany, Chemistry, Commerce, Library and Information Science, Mathematics, Physics, Sanskrit, psychology and physiology respectively. Among them, 26 participants were male and 13 participants were female. All the modules of the program had been carefully designed to incorporate the four coordinates (e-tutorials, e-content, web resources and self-assessment) prescribed by MHRD. Eminent educationists and experts of various subjects made the participants aware of the values of the society, new education system, research and new techniques through very good, effective and inspiring lectures and their doubts were resolved. Objective type online test of 10 marks at the end of each module as well as e-content development, brainstorming, Assignment, Seminar, Microteaching etc. from each module were conducted by the organisers and were successfully attended by the participants. The entire program was conducted on Google Meet platform every day in four sessions from 10.30 am to 5.30 pm.



Distribution of Participant Gender Wise



Distribution of Participant State Wise



Distribution of Participant Subject State Wise

Course Module

The courses were conducted to enrich the participants on the following 10 modules:

Module – 1: Higher Education and its Ecosystem (17h)

Module – 2: Curriculum designing, Outcome based learning and Choice based credit system (20h)

Module – 3: Teaching, Learning and Assessment (20h)

Module – 4: Technology for Teaching and Assessment of Ingeneration (20h)

Module – 5: Personal-Emotional Development and Counselling (20h)

Module – 6: Research, Professional Development and Academic Leadership (20h)

Module – 7: Academic Integrity (10h)

Module – 8: Constitutional Values, Human Rights and Fundamental Duties (13h)

Module – 9: Environmental Consciousness and Sustainable Development Goals (10h)

Module – 10: Strategic Planning and Management (15h)

Detail of date wise organized program

First online Faculty Induction program (Guru Dakshata) was organized from 03/08/2021 to 06/09/2021. Various programmes were conducted date wise.

Day 1 : (03/08/2021)



The Program started from 10.30 a.m. with the welcome address by Course Coordinator **Dr. Brijendra Pandey** in the august presence of Respected Chief Guest **Prof. K. L. Verma, Vice Chancellor,**

P.R.S.U. Raipur and **Prof. Shailendra Saraf, Director, H.R.D.C., P.R.S.U. Raipur.** Respected V. C. Prof. K.L. Verma got acquainted with all the participants, then H.R. D.C. Director Prof. Shailendra Saraf gave detailed information regarding the 30 days Online Faculty Induction Program (Guru Dakshata) to the participants. In the end, the respected Vice Chancellor gave brief information about the program while congratulating the participants.



Prof. Neeraj Upmanu,

In the second session (12.15 to 13.45) **Dr. Neeraj Upmanu**, Professor, Head of School of Pharmacy and Research and Head of Faculty-Pharmacy, People's University Bhopal delivered a lecture on "Schemes under UGC, ICSSR, ICHR, DBT and any other Schemes under UGC, ICSSR, ICHR, DBT and any other funding agencies". In his lecture, he gave detailed information about receiving funds from various funding agencies and the time limit set by those agencies. Dr. Upmanu assured the participants that they can contact for any kind of help related to the various kinds of funding agencies.



Pro. P. K. Singhal,

In the Third and Fourth session (14.15 – 15.45 & 16.00 – 17.30) **Prof. P. K. Singhal**, Department of Biotechnology, Rani Durgavati University, Jabalpur spoke about the "State of Indian Higher Education System" and "Reforms in Indian Higher ". His session starts with the detailed information about the urban rural inequality, calculation of NAAC and employment index and the establishment and work of the university. Prof. Singhal resolved the questions and doubts of the participants in an efficient manner.

Day 2 : (04/08/2021)



Prof. Arbind Kumar Jha

In the first session (10.30 – 12.00) **Prof. Arbind Kumar Jha**, Dean, School of Education, B. B. Ambedkar University, Lucknow discussed on "Current Trends in Higher Education: Indian and Global perspective". In his lecture, respected Jha sir said that education should also be like a brand and children should get an opportunity to learn and work. He called upon all the newly appointed assistant professors and said that now in higher education effort should also be made for the involvement of the parents.



Prof. Swarnalata Saraf

During the second session (12.15 – 13.45) **Prof. Swarnalata Saraf**, SOS in Pharmacy, Pt. Ravi Shankar Shukla University, Raipur talks about "Current Challenges and Opportunities in Indian Higher Education - Implications for Everyday Classroom". She explained how our education system has been since the old times and has guided the whole world like Vishwa Guru. The work of a teacher is not an ordinary task, we have to fulfil everyone's expectations. At the end of her lecture, the respected madam, while discussing the current and old education, asked the participating professors to write and publish their ideas in order to give a right direction to the society.



Prof. C. B. Sharma

In the Third and Fourth session (14.15 – 15.45 & 16.00 – 17.30). **Prof. C. B. Sharma**, School of Education, Indira Gandhi National Open University (IGNOU), New Delhi discussed on the topics "Idea of the University" and "Code of Ethics, Professional Ethics, Professional Relations and Networks" .

Prof. Sharma explains in a very interesting manner from the initial objectives of the establishment of the University to the present situation, and the global status of Indian Universities as well. He gave necessary suggestions for improvement of the Universities. Prof. Sharma further informed the participants about the appointments on various administrative posts of the university and their responsibilities. In the fourth session, along with discussing the Code of Ethics, Professional Ethics is necessary for a good institution and enriched the participants with various suggestions.

Day 3 : (05/08/2021)



Dr. Rama Devi Pani

In first two consecutive sessions (10.30 - 12.00 and 12.15 - 13.45) **Dr. Rama Devi Pani**, AIU, New Delhi, delivered her speech on "History of one's own institution" and "Development of Higher Education". During the speech, she discussed about the research quality not being very good in our country, so we all need to make sincere efforts to improve our

research quality.



Prof. L. S. Nigam

In two consecutive sessions (14.15 - 15.45 and 16.00 - 17.30) **Prof. L. S. Nigam**, Vice Chancellor, Shankaracharya Vishwavidyalaya, Bhilai discussed on "University Act, Law, Ordinance and its role and its role and Importance in Governance" and "Recognition under 2f and 12b UGC Act".

Prof. Nigam explained the University Acts and the process of 2f and 12b accreditation and its need in a very interesting manner to the participants and also cleared their various doubts as well.

Day 4 : (06/08/2021)



Prof. Anand Vardhan Sharma

In the first session (10.30 – 12.00) **Prof. Anand Vardhan Sharma** of Sofia University Bulgaria, delivered his speech on "Institutional Planning and Development". He said that the basic aim of education is to make a better student, along with this he further explained to the newly appointed professors through various couplets and verses how the personality and

conduct of the professor affects the whole society.



Dr. Richa Dayaramani

In the second session (12.15 – 13.45) **Dr. Richa Dayaramani** Principal, Khyati College of Pharmacy, Ahmedabad, deliberated on “Consideration for designing the curriculum”. Respected Dr. Dayaramani said that Curriculum is the soul of the university and college; the curriculum determines the work of our whole year, and explained the various aspects of curriculum construction in detail to all the participants, and also answered the questions of the participants in a lucid manner.



Dr. S.P. Gupta

In last two consecutive sessions (14.15 - 15.45 and 16.00 - 17.30) **Dr. S.P. Gupta**, Professor, Bipin Bihari College, Jhansi, delivered a lecture on “Comprehensive lecture on Choice Based Credit System and inculcation of Objective Test” & "To enhance the quality building session related to Questionnaire Method". He discussed the Radhakrishnan Commission (1948-1949), The Kothari Commission and the National Education

Policy, 2020. Giving complete information about the CBCS system with a student centric approach, its purpose, syllabus, examination method and grading system. Dr. Gupta also took feedback regarding CBCS system while discussing with the participant and also asked to prepare a syllabus of ability enhancement course of 2 credit score for next day brainstorming sessions.

Day 5 : (07/08/2021)



Dr. Jayanti Dutta

In first two consecutive sessions (10.30 - 12.00 and 12.15 - 13.45) **Dr. Jayanti Dutta**, Deputy Director, Punjab University, Chandigarh, explained about "Framing curricular objectives and organization of content" & "Framing curricular objectives and organization of content". In these two sessions, Dr. Dutta while interacting with the participants talked about Bloom's Taxonomy – 3 Domains of Learning and also

motivated the participants to work towards the all-round development of their students as well as enhancing their skills and critical thinking.



Prof. Sudhanshu Bhushan

Last two sessions (14.15 - 15.45 and 16.00 - 17.30) were conducted by **Prof. Sudhanshu Bhushan**, HOD, Higher and Professional education, NUEPA, New Delhi, on "History and evolution of CBCS" & "CBCS and Outcome Based Learning". In these sessions Prof. Bhushan mentioned about need for CBCS system by which we can be able to compete on global level. Along with this, he also said that we also need

to improve the infrastructure of our universities and colleges, so that we can implement this system properly.

Day 6 : (09/08/2021)



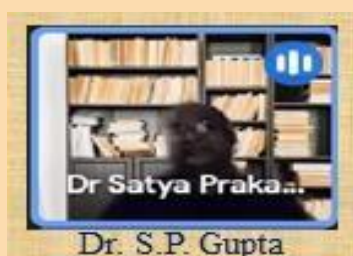
In the first session (10.30 – 12.00) **Dr. Richa Dayaramani**, Principal, Khyati College of Pharmacy, Ahmedabad, in her speech elaborately discussed on the topics “Students evolution using outcome-based learning”. Here she raised various issues related to assessment and evaluation and discussed in details about the three parts of assessment namely diagnostic, formative and

summative. Moreover, she added a new interpretation about student self-assessment.



In the second session (12.15 – 13.45), **Prof. Ninad Bodhankar** SoS in of Geology & WRM PRSU, Raipur, elaborately discussed on the topics “CBCS: Case studies of good implementation”. Here he narrated in details the purpose of introducing CBCS system, its advantages and disadvantages, grading

system etc.



In the last two consecutive sessions (14.15 - 15.45 and 16.00 - 17.30) **Dr. S.P. Gupta**, Professor, Bipin Bihari College, Jhansi, today’s lecture series guided brainstorming session of 39 participants successfully and also delivered a nice speech about the purpose of introducing CBCS system in higher education. He advised participants of various domain about how to

moderate syllabi as per present scenario.

Day 7 : (10/08/2021)



In first & second sessions (10.30 - 12.00 and 12.15 - 13.45) **Prof. S. K. Bawa** Professor & Dean School of Education, Central University of Punjab, Bathinda (Punjab), delivered his speech on “To emphasize the systematic framework of curricular objective and content building process” & “To elaborate teaching learning process, pedagogical principles and assessment.” In the session, Dr.

Bawa discussed about various educational principles. At present there is a need to develop creative skills in the students. Teaching learning process needs to be taken from memorisation to creative according to bloom’s technology.



In third & fourth sessions (14.15 - 13.45 and 16.15 - 17.30) were taken by **Prof. Sudarshan Panigrahi** Department of Education MS University Baroda Vadodara (Gujarat) on “Teaching stratigies: constructivism, critical pedagogy and blended learning” & “Teaching stratigies: constructivism, critical

pedagogy and blended learning”. While discussing NEP 2020 and the new pattern of UGC, now we all have to do 70% of our syllabus by physical class and 30% part online after Pandemic also, so we all need to be technology friendly, with this he also told the participants that the process of learning and teaching should go on. Now our role is that of mentor and I know that all of you will play this role very well.

Day 08 : (11/08/2021)



Prof. P.K. Tulsi

In first & second sessions (10.30 - 12.00 and 12.15 - 13.45) **Prof. P.K. Tulsi** Retd. Professor, National Institute of Technical Teachers' Training & Research, Chandigarh (Punjab) given lecture on "Assessment and Evaluation: Assessment for learning and assessment of learning" & "Assessment and Evaluation: Assessment for learning and assessment of learning". In his lecture, Dr. Tulsi said that now we have not only to pass and fail our students by taking their exams, but to convert their knowledge and skills into employability. Now we have to make our curriculum more strong, to develop our students all over. We have to make parents also a part of this teaching-learning process, so that we can achieve our goal.



Prof. Asheesh Srivastava

In third & fourth sessions (14.15 - 13.45 and 16.15 - 17.30) were taken by **Prof. Asheesh Srivastava**, Dean School of Education, Mahatma Gandhi Central University, Motihari, East Champaran, Bihar on "Effective Classrooms in Relation to NEP 2020" & "Time management, use of humor in teaching, balancing firmness and friendliness". During his lecture, while discussing in detail on NEP 2020, giving complete information regarding 5+3+3+4, he also told its importance for the complete development of the students. Now we have multidisciplinary approach, in which students can do their studies by choosing different subjects and institutions as per their convenience.

Day 9 : (12/08/2021)



Prof. C.D. Agashe

In the first session (10.30 – 12.00) **Prof. C.D. Agashe**, SoS in Physical Education, Pt. RSU Raipur (C.G.) delivered his speech on "Teaching my style". In the beginning of his lecture, where he said the lecture should be easy, simple and organized, for this we should be very well prepared. Understanding the subject, it is necessary to reach out to the students through different types of social examples. In this regard, he also received feedback from the participant.



Dr. Vani Subramanyam

In the second session (12.15 – 13.45), **Dr. Vani Subramanyam**, Rtd. Principal, Maitri College, Bhilai (C.G.) delivered her speech on "inclusive Multicultural classrooms and pedagogies". On the basis of her experience at the beginning of her lecture, he addressed the participants and said that the determination of the direction of the class depends on our preparation related to that topic. Education is not to be kept one's own, but to get some knowledge from children also because you can get very good teaching methods from them too.



Dr. C. S. Vazalwar

In third & fourth sessions (14.15 - 13.45 and 16.15 - 17.30) were taken by **Dr. C. S. Vazalwar**, Associate Prof. & Head, Dept. of Education, GGU Central University, Bilaspur (C.G.) on “Lesson Planning - Basic idea, logic and different types, skills and techniques for writing lesson plans” & “Learning and the learner”. In his lecture, he said that many elements of a good lesson plan are intertwined and this is the key to the proper functioning of our classroom. Respected Sir said that without a plan a teacher can be locked in a structure which does not suit his students. He also told the participants about the 5E model and said that you should be able to customize it according to your needs.

Day 10: (13/08/2021)



Prof. C.D. Agashe

In the first session (10.30 - 12.00), **Prof. C.D. Agashe**, SoS in Physical Education, Pt. RSU Raipur, delivered lecture on "Conceptual Learning". He elaborated the topic starting with real world situation of knowledge and skills. On Conceptual Learning he gave many examples like Cricket and recent Olympic Gold Medalist of Javelin thrower Mr. Neeraj Chopra and explained why Conceptual Learning is very important. Prof. Agashe cleared the doubts of the participants. The session was very fruitful and knowledgeable.



Dr. Hima P. Bindu

In the second and third sessions (12.15 - 13.45 & 14.15 - 15.45) **Dr. Hima P. Bindu**, Department of Physics, Osmania University, Hyderabad, excellently presented her lectures on "Creating blogs, Basics of creating Web pages" & "Creating blogs, Basics of creating Web pages". She gave practical knowledge on how to create Gmail account, how to use its facilities like Google workplace education, Google drive and how to share e-contents through Google drive. In third session Dr. Hima P. Bindu provided practical knowledge on how to create blogs, creating Web Pages, Google Sites. Dr. Bindu practically helped the participants to make their own Blogs, Web Pages and Google Sites simultaneously. She also cleared the doubts of the participants. The session was very interesting and fruitful.



Dr. Madhuri Hooda

In the fourth sessions (16.00 - 17.30) **Dr. Madhuri Hooda**, Department of Education, Maharshi Dayanand University, Rohtak, presented her lecture on "ICT based Assessment Methods". She showed many online assessment tools like ahoot.com, Mentimeter.com, Quizizz.com and Google Classroom and gave practical knowledge to make online assessment contents using these tools. She motivated participants to participate online quiz made by her during the session. She also cleared the doubts of the participants. The session was very interesting and interactive.

Day 11: (14/08/2021)



In first two consecutive sessions (10.30 - 12.00 and 12.15 - 13.45) were taken by **Prof. K. Srinivas**, NUEPA, New Delhi, on "Digital Initiatives of GOI: Building the Competencies of Teachers for online Teaching & OER: Concept & Licensing Search, Use & Reuse" & "Hands on Exposure on EContent Development Tools". He first showed us his learning portal, the requirements needed for a perfect teacher, issues of Covid-19 and higher education. Sir discussed about the 21st class, and redefined the learning role transform learning from push to pull which consisted of centralized learning. He briefly discussed about blended learning, objectives of it, and also a format for submission of activity. The session was a learning session for us and we learned many things about blended learning. We learned about some teachings skills which could help us to teach the students easily in online.



The third & fourth consecutive sessions (14.15 - 15.45 and 16.00 - 17.30) were taken by **Dr. Madhuri Hooda**, Department of Education, Maharshi Dayanand University, Rohtak, on "e-content development (script writing, shooting)" & Creating blogs (ICT based exercise) –Modulating Webinars - Video editing". Ma'am taught us the four platforms of SWAYAM, four quadrants. She showed us how the three apps- Presentation Tube recorder, Loom and Screen cast-o-matic work and how easily we can record our audio as well as the video with the presentation on the screen. We got the knowledge to operate different apps which were unknown to us. We also got more education and learned about the functions of different apps which could help in our teaching life in future.

Day 12 : (16/08/2021)



In first two consecutive sessions (10.30 - 12.00 and 12.15 - 13.45) were taken by **Prof. K. Srinivas**, NUEPA, New Delhi, on "Designing Online/MOOC Through MOODLE Learning Management System" & "Designing Online/MOOC Through MOODLE Learning Management System". The session was a practical session where participants were taught to use MOODLE Cloud and upload e-content. He also told how to save your content using Google Drive and how you can share their e-content through MOODLE to the students. Resolved the doubts of the participants regarding Moodle and MOOC and also assured them that they can take guidance in future also.



In third & fourth consecutive sessions (14.15 - 15.45 and 16.00 - 17.30) were taken by **Dr. Madhusudan J. V.** Associate Professor, Department of Education and Education Technology, School of Social Sciences, University of Hyderabad (Telangana), on "Understanding online learning applications & system" & "Citation and referencing, IPR and copyright issues". In his lecture, you gave detail about online learning tools and hands on training to understand in detail about use of online learning

tools and you also told how to solve the problems faced in online teaching. Further giving information about research, participant learned to create ID in Google Scholar and also explained about index, citation etc. While explaining the importance of reference in research, also giving information about some software.

Day 13 : (17/08/2021)



Dr. Madhusudan J. V.

In first two consecutive sessions (10.30 - 12.00 and 12.15 - 13.45) were taken by **Dr. Madhusudan J. V.** Associate Professor, Department of Education and Education Technology, School of Social Sciences, University of Hyderabad (Telangana). On “Managing and Customizing Course in Moodle” & “Logs and Analytics in MOODLE”. In your lecture, you taught how to create course

in MOODLE and also to insert unit, class etc. of your course, as well as you got all the participants registered in MOODLE CLOUD during the session itself. After this, also taught to insert your class video, audio, pdf and book in your course.



Prof. Neeraj Upmanu.

In third & fourth consecutive sessions (14.15 - 15.45 and 16.00 - 17.30) were taken by **Dr. Neeraj Upmanu** Professor, Head of Institute School of Pharmacy & Research & Head of Faculty-Pharmacy, People’s University Bhopal (M.P.) on “Creating MOOCs: An Innovative Teaching Learning Tool creating MOOCs: An Innovative Teaching Learning Tool” & “Online Education and Learning: SWAYAM and other Platform”.

Respected sir started his discussion by giving detailed information about MOOC and SWYAM. After this, the also explain the process to make course for MOOCs and if course is accepted, then it is also very important to effectively keep your course among the trainees explained with examples.

Day 14: (18/08/2021)



Prof. Rekha Acharya

The first two consecutive sessions (10.30 - 12.00 and 12.15 - 13.45) were taken by **Prof. Rekha Acharya**, School of Economics DAVV, Indore (M.P) on “Work Life Imbalance and its consequences” & “Handling Different Types of Children”. She discussed about the Work Life Imbalance and its consequences. Madam brought out the Imbalances and Balances of life and how we can overcome from Imbalance of life by proper planning and positive

attitude. She also discuss in her speech to set our goal, keep diary, know our work, ask ourselves and focusing on the benefit of the change not problem then only we can make our life Balancing. In the second session madam was discuss how to handle different kind of children in the society as well as the educational institution. It definitely a big challenge to handling of big heterogeneous group in the institutional, from her discussion we could understand about the various types of Exceptional students, God gifted students, Special students and also the normal children. We learn from this session how to give the corrective learning to the child and as well as students.



Prof. J.C. Ajawni

In third & fourth consecutive sessions (14.15 - 15.45 and 16.00 - 17.30) **Prof. J.C. Ajawni**, Rtd. Professor, Govt. Girls Degree College, DevendraNagar Raipur, talked on “Psychotherapy and Counselling” & “Counselling strategies for better personal and class adjustment”. Sir

talked about the Psychotherapy and counselling of the people from the stress and anxiety. He believed that in this pandemic situation all the people are really under stress, so Psychotherapy and Counselling impact gravely on the lives of individuals, families and communities. He expresses his session about Intra personal Emotional awareness, IQ, EQ, Self Actualizations, Interpersonal Dimension of Emotion, Stress management, Mood management, and he also said Karma is the main self-actualization.

Day 15: (19/08/2021)



Prof. (Dr.) Vipul Vyas

In first two consecutive sessions (10.30 - 12.00 and 12.15 - 13.45)

Prof. (Dr.) Vipul Vyas, Visiting Faculty, IRMA Director, Mann - The Mind, Mumbai, delivered his speech on “ Power of Emotional Intelligence in Work and Life” & “Power of Emotional Intelligence in Work and Life”. Sir has delivered very relevant lecture on Emotional Intelligence and interacted with the participants. He relates the topic with real life

example like he said by applying intelligence quotient one can get a job but by applying emotional intelligence one can achieve promotion in his service life. He further discussed about the emotional intelligence in details. He said about the emotional intelligence model and the model has four major components i.e., i) Self-awareness ii) Self-Management iii) Social awareness and iv) Relationship development. He also discussed eight basic emotions.



Prof. Anurodh Singh Sisodia

In third & fourth consecutive sessions (14.15 - 15.45 and 16.00 - 17.30) **Prof. Anurodh Singh Sisodia**, Director HRDC, LNIP, Gwalior, delivered his speech on “Understanding stress and its impact at different levels, Managing Stress and time management” & “Understanding stress and its impact at different levels, Managing Stress and time management”. Prof. Sisodia discussed about the

stress and its impact at different levels, managing stress and time management. He discussed about different sources of stress. He said stress can be helpful or harmful. In this session sir delivered lecture on Yogic lifestyle and how it is relevant in our day-to-day life. Yogic lifestyle can give relief from mental stress. The resource person has also discussed about Surya Namaskar and its importance in life.

Day 16: (20/08/2021)



Prof. Sangeeta Jain

their students.

In the first sessions (10.30 - 12.00) **Prof. Sangeeta Jain**, Devi Ahilya Vishwavidyalaya, Indore (M.P), presented her lecture on “Personality and its defining characteristics, Assessment of personality”. She elaborated about Personality and Personality traits in detail, and encouraged the participants to be aware of their own personality and to take care of the personality development of



Prof. Ashutosh Biswal

lucid and comprehensible.

In the second session (12.15 – 13.45), **Prof. Ashutosh Biswal**, Department of Education, MS University Baroda Vadodara (Gujarat), delivered his lecture on “Nature and type of adjustment problems: Academic, Emotional and social”. In a very dexterous way, Prof. Biswal illuminated on adjustment issues. He used a number of ppt. slides to elaborate his points. His lecture was quite



Prof. Umesh Vashishtha

students and/or special children in a grandiloquent manner. Here too, he gave a tremendously motivational lecture which invited many participants to interact with him.

In third & fourth sessions (14.15 - 15.45 and 16.00 - 17.30) **Prof. Umesh Vashishtha**, Ex Head and Dean, Faculty of Education, University of Lucknow, discussed on “Exceptional Students” & “Students with divergent socio-cultural background”. His lecture was vibrant and inspiring. He discussed in detail about exceptional

Day 17: (21/08/2021)



Anurima Roy

or learning for life”. And also she added saying “Mentoring is building relationship with students, identifying where they went wrong or disconnected, reconnecting them when they lose focus. At the end of the session chairperson and also other participants thanked her for delivering such an informative lecture.

In the first session (10.30 - 12.00) **Anurima Roy**, Publisher and Chief Editor, Harper Collins Publishers India New Delhi, discussed on “Mentorship”. From her illuminating speech we came to know about how to mentor students in our colleges and universities. She also said in her speech “Mentoring goes beyond teaching. This is where you transform a student from getting a degree for a job



Prof. S.K. Jadhav

In the second & third sessions (12.15 – 13.45 & 14.15 - 15.45) under the chairmanship of **Prof. S.K. Jadhav**, SOS in Biotechnology, Pt. Ravishankar Shukla University, Raipur, we had seminar on module-5. All the participants presented their seminar one by one, which was evaluated by Prof. S.K.Jadhav sir. After the seminar he had given some suggestions to develop the skill of presenting seminar paper. At the end of the session chairperson and also other participants thanked Prof. S.K.Jadhav for evaluation our seminar. We completed module -5 with 3rd session.



Prof. Farooque Rizvi

In fourth session (16.00 - 17.30) **Prof. Farooque Rizvi**, Principal Rizvi College of Arts, Science & Commerce, Mumbai explained about “Conceiving teaching & research & the connection between the two”. Sir pointed out faculty at research universities often defines their Professional role by the two core faculty activities of teaching and research. Some scholars have proposed that these two activities have inherently divergent purposes and that success in these distinct domains requires different skill sets and personal attributes. Correlational studies examining the relationship between faculty publication rates and teaching quality, assessed generally through Course evaluations, have been consistent with this view.

Day 18 : (23/08/2021)



Prof. Bhaskar Mukherjee

In first two consecutive sessions (10.30 - 12.00 and 12.15 - 13.45) **Prof. Bhaskar Mukherjee** Department of Library and Information Science. BHU, Varanasi (U.P.), discussed on “Software tools for research and for plagiarism check” & “Software tools for research and for plagiarism check”. In his lecture, giving live detailed information about different types of research software, you told how to search and read research paper and also inspired all the participant to start your research according to your study. While taking forward his lecture, explained briefly about plagiarism.



Dr. Prashant Srivastava

In third & fourth sessions (14.15 - 15.45 and 16.00 - 17.30) **Dr. Prashant Srivastava**, Dept. of Geology, Govt. Science College, Durg (C.G.), discussed on “Professional Development and quality Education” & “Bridging between teaching and research and importance of staying updated for quality”. Sir said

in his discussion that quality education is necessary right now and we should seriously move forward in this direction. He further said that the work of all of us is most important for the positive development of the country because we also need research along with quality education.

Day 19: (24/08/2021)

In the first session (10.30 - 12.00) **Prof. Farooque Rizvi**, Principal, Rizvi College of Arts, Science & Commerce, Mumbai, explained about "Research Design Objectives, Types and How to Solve Problems in Research". He provided useful knowledge regarding how to do the work plan as well as questionnaire schedule in the methods of collection of primary facts for research. He also described the project plan; he said that the title, methodology and budget of the project should be clear. All the participants also asked their own questions related to the project proposal.



Prof. Farooque Rizvi



Dr. Amit Alexander

In the second session (12.15 – 13.45), **Dr. Amit Alexander**, Associate professor, National Institute of Pharmaceutical Education and Research NIPER, Gauhati, conducted a session on "Software tools for research and for plagiarism check: Latex, Bibliographic, End Note, Bib Tex, Turnitin, Statistical, other open-sources tool: data in the public domain". In his lecture, sir provided detailed information about research, providing information related to journals, also explained the difference between book and journal. He provided information about Science Citation Index (SCI) and SCOPUS. While providing information regarding Plagiarism, he advised to avoid it. Some information was also given about some software to check plagiarism.



Dr. Amrendra Pani

In third & fourth sessions (14.15 - 15.45 and 16.00 - 17.30), **Dr. Amrendra Pani**, AIU, New Delhi, discussed on "Fundamental of Strategic and Transformational leadership" & "Different kinds of leadership – results- oriented leadership, creative leadership, leading for creative results". He explained through the example of Prof. P.K. Khosla, Vice Chancellor Palini

University, Shalon, Himachal Pradesh provided lively information of proper leadership potential. The information given by him was very beneficial for enhancing the knowledge of the participants by providing detailed and useful information about the qualities of a good teacher and academic leadership.

Day 20: (25/08/2021)



Prof. Aruna Palta

In first two consecutive sessions (10.30 - 12.00 and 12.15 - 13.45) **Prof. Aruna Palta**, Vice Chancellor, Hemchand Yadav University Durg, discussed on "Conducting Discipline-specific Research: planning, and writing a research proposal, funding opportunities, involving students in research" & "Preparing to become a PhD guide: roles and responsibilities".

In her speech

respected VC madam highlighted different aspects of Discipline specific Research and also how research proceeds differently according to discipline, type of resource and also by choosing the right tools and methodologies. Apart from this, Professor Palta discussed in great details about the research project proposal, the skills required and also how to develop such proposal.



Prof. Rajeev Chaudhari

In last two consecutive sessions (14.15 - 15.45 and 16.00 - 17.30) **Prof. Rajeev Chaudhari**, SoS in Physical Education, PRSU, Raipur, explained about "Statistical tools to conduct quantitative and qualitative research" & "Research Ethics". Prof. Chaudhari explained the meaning of research and the process and activities involved therein. He classified research on the basis of methodology and explained Statistical tools to conduct quantitative and qualitative research.

Day 21 : (26/08/2021)



Pro. N. K. Baghmar

In the first session (10.30 – 12.00) **Prof. N. K. Baghmar**, SOS in Geography, Pt. Ravi Shankar Shukla University Raipur (C.G.), under his chairmanship all the participants gave information about their research proposals in the stipulated time. After the project proposal Prof. Baghmar encouraged all the participant by giving necessary suggestions related to the research proposal.



Prof. Bhaskar Mukherjee

In the second session (12.15 – 13.45) **Prof. Bhaskar Mukherjee**, Department of Library and Information Science, BHU, Varanasi (U.P.) discussed about “Predatory journal or predatory practice - which to be controlled”. Prof. Mukherjee explained the different types of journals and their peer reviews and access. He also informed the participant about the predatory journal and told that there is no review in it. Where to stay away from this type of journal.

Further, he also told some ways by which one can avoid this type of journal.



Prof. Shalini Lihitkar

In last two consecutive sessions (14.15 - 15.45 and 16.00 - 17.30) **Prof. Shalini Lihitkar** Department of Library and Information Science, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur (Maharashtra) discussed on “Emerging profiling tools to enhance research visibility” & “Use of Reference

management tools to avoid violation of publication ethics”. Madam explained in detail how research papers can be uploaded in their account and shared multiple information about publication with trainees.

Day 22 : (27/08/2021)



Dr. Suparnsen Gupta

In first two consecutive sessions (10.30 - 12.00 and 12.15 - 13.45) **Dr. Suparnsen Gupta**, Pt. Ravishankar Shukla University, Raipur (C.G.) explained about “Academic Integrity Academic Integrity and Consequences of Academic Integrity Breaches”. & “Honor Code and Honor Pledge”. To which Sir said that having academic integrity is important because it can provide your peace

of mind that you are doing the right thing. Acting with integrity can reduce the stress in your life, helping you to be happy, healthy and very well. Incidents of academic dishonesty happen because students do not know the right way to do something. To avoid academic dishonesty, you may be asked to take an honor pledge before all of your students take exams or submit assignments.



Dr. Akhtar Parvez

In last two consecutive sessions (14.15 - 15.45 and 16.00 - 17.30) **Dr. Akhtar Parvez** University Librarian Maulana Azad National Urdu University Hyderabad (Central University) (Telangana), talk about “Ethics and Challenges in Academic Matter”. You all should know that research promotes ethical and social values, such as social responsibility, and public health and safety. Lack of ethics in research harms students and our society. Recognizing the importance of ethics to the conduct of research, it should come as no surprise that many different universities have adopted specific codes, rules.

Day 23 : (28/08/2021)



Prof. Ninad Bodhankar

In first two consecutive sessions (10.30 - 12.00 and 12.15 - 13.45), under the guidance of **Prof. Ninad Bodhankar**, SoS in Geology & WRM PRSU, Raipur, all the 39 participants gave their microteaching on various topics related to module - 07 one after another. After this Prof. Bodhankar made a brief analysis of microteaching and gave necessary suggestions to the participants.



Prof. Vijay Kumar Singh

In last two consecutive sessions (14.15 - 15.45 and 16.00 - 17.30) **Prof. Vijay Kumar Singh**, Professor Dean UPES, Dehradun, elaborately discussed on the topics "Constitutional Values" & "Impact on Education Domain of constitutional values". At the beginning of his lecture, he read the Preamble of the Constitution in both Hindi and English, after giving detailed information on the values contained in the Preamble of the Constitution, He inspired all the participants to explain it to the university and college students as well.

Day 24 : (30/08/2021)



Prof. Kiran Gardner

In first two consecutive sessions (10.30 - 12.00 and 12.15 - 13.45) **Prof. Kiran Gardner** Professor, Dean Alliance University, Bangaluru (Karnataka), delivered her speech on “Discrimination on the basis of caste, class and gender in classroom” & “Prejudiced in examination curriculum, textbooks, classroom processes and research”. About which Madam first told the meaning of Discrimination. And shared in-depth information in detail about the discrimination done by the teachers on the basis of caste, on the basis of class and on the basis of gender within the classroom. During the lecture, all the questions asked by the participants were answered in practical language. And also simply and easily explained about the legal provisions given in the constitution.



Dr. K. Subramaniam

In last two consecutive sessions (14.15 - 15.45 and 16.00 - 17.30) **Dr. K. Subramaniam** Rtd. IFS, CG Government delivered her speech on “Human Rights and Fundamental Duties”. About which Sir very simply and easily shared the deep information and talked about how HUMAN RIGHTS was started and how it was declared all over the world. Then explained in detail about what was placed in Part 3 of our Indian Constitution. After that in the fourth lecture, HUMAN RIGHT explained about the legal provisions of all the ARTICALS and FUNDAMENTAL Duties by giving various examples

Day 25 : (31/08/2021)



Prof. Kiran Rai

In first two consecutive sessions (10.30 - 12.00 and 12.15 - 13.45) **Prof. Kiran Rai**, Associate Professor Maharashtra National Law University Mumbai (Maharashtra), talked about “Role of education in creating a more equal and just Society” & “Anchoring professional ethics in universal values”. Madam said that values form the basis of all our thoughts, behavior and actions. As soon as we know what is valuable to us, these values become the basis of our actions. She said that we all also need to understand the universality of various human values, because only then we can have a definite and general program for value education in our institution. Only then we can be sure of a happy and harmonious human society.



Prof. A. K. Pandey

In last two consecutive sessions (14.15 - 15.45 and 16.00 - 15.30) **Prof. A. K. Pandey**, SOS in Economics Pt. Ravishankar Shukla University Raipur (C.G.), Under his guidance, all the 19 groups had group discussions on various topics related to module 8 at the stipulated time. After the group discussions, respected Pandey sir while praising the participants said that new information was received from the discussion of all of you. He said that all of you should take the determination of your subject seriously.

Day 26 : (01/09/2021)



Prof. Rajeev Chaudhari

In first two consecutive sessions (10.30 - 12.00 and 12.15 - 13.45) were taken by **Prof. Rajeev Chaudhari** SoS in Physical Education, PRSU, Raipur (C.G.) on “Essentials for good Health and well being”. During the session Prof. Chaudhary discussed that happiness will come only when we are healthy and fit. He said that our bodies and minds are not separate, it is no surprise that

mental illness can affect your body. For example, depression can come with headaches, fatigue and digestive problems, with other symptoms including insomnia, restlessness and difficulty concentrating. Therefore, we should pay attention to our physical health as well as mental health.



Prof. Rajesh Kumar Dubey

In last two consecutive sessions (14.15 - 15.45 and 16.00 - 15.30) **Prof. Rajesh Kumar Dubey**, Professor, HRDC, Jodhpur University, Jodhpur (Rajasthan), talked about “The need of Environmental Consciousness” & “Importance of Sustainable Development Goals”. Sir talked the development not take place on the condition that all our natural resources should be destroyed, nothing is left for our coming generation. We also need to pay attention to the fact that along with development, there is a need to pay more attention to the environment. That's why we need SDGs to set our development goals.

Day 27 : (02/09/2021)



Prof. Rajesh Kumar Dubey

In first two consecutive sessions (10.30 - 12.00 and 12.15 - 13.45) **Prof. Rajesh Kumar Dubey**, Professor, HRDC, Jodhpur University, Jodhpur (Rajasthan), talked about “Necessity of SDG for a better society”. While explaining the SDGs completely, you have also explained its essential component and said that all of us teachers also have to pay attention to it so that we can achieve our goal by 2030 because for two years Corona has also affected us. Sir again said,

if we really want to pursue the Sustainable Development Goals, then there is a need for aware persons in different areas of the world, who are able to train others in this regard.



Dr. Manu Gouraha

In last two consecutive sessions (14.15 - 15.45 and 16.00 - 15.30) **Dr. Manu Gouraha**, School of Studies in Sociology and Social Work Vikram University, Ujjain (M.P) talked about “How to achieve social justice” & “Concept to improve the social and educational standards”. Sir, while explaining social justice and its essential goals, where social justice cannot be achieved without these goals. In the end, Sir while discussing with all the participants about the

ways to improve the social and educational standards, the participants also enthusiastically shared their views and discussed with Sir.

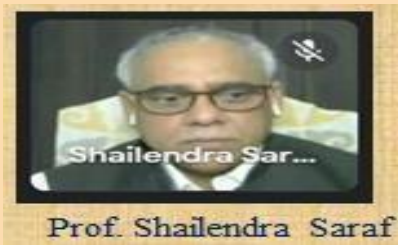
Day 28 : (03/09/2021)



Prof. B.S. Thakur

In the first sessions (10.30 - 12.00) was taken by **Prof. B.S. Thakur**, S.o.S in Mathematics, Pt. Ravishankar Shukla University, Raipur, C.G. on “Creating and developing a shared vision”. In his lecture Prof. Thakur says that the classroom environment, social and emotional environment has a profound effect on the students. Teaching activities are most motivating when they

are practiced practically. Sir said that as a teacher you have to take initiative to lead your students on this path. Apart from this you also need to consider what kind of environment you want in your classroom. Sir to all the participants, doing this will make a difference in the happiness, motivation and achievement of your students.



Prof. Shailendra Saraf

In the second sessions (12.15 - 13.45) was taken by **Prof. Shailendra Saraf**, Director, HRDC, Pt. Ravishankar Shukla University, Raipur, (C.G.) on “Preparing vision/mission document, state and institutional level strategic plan”. Sir explained in detail about all the stages of writing the vision, mission and value statement and its requirement in the institute.

Regarding the Good Vision Statement, he said that it is written in the present, which explains your goals and objectives for a particular period. In a world where technology, teaching pedagogy, sophistication of equipment etc. keep on changing rapidly, hence the strategic planning of the university needs to be dynamic.



Dr. K. Subramaniam

In last two consecutive sessions (14.15 - 15.45 and 16.00 - 15.30) were taken by **Dr. K. Subramaniam** Rtd. IFS, C.G. Government on “Strategic Planning: Indian Economy Post Covid” & “Causes and Effects of Indian Economy in Post Covid situation”. Subramaniam Sir, while highlighting the relevant issues and the roadmap ahead in the moment of the COVID-19 pandemic, said that the pandemic has affected human lives and economies across the

world. Some integrated policies for economic, social and environmental objectives are needed to respond to this crisis. The ongoing vaccination campaign in our country removes the fear of COVID-19 and our hopes of economic revival are getting stronger.

Day 29 : (04/09/2021)



Prof. K.R. Hari

In first two consecutive sessions were taken by **Prof. K.R. Hari**, SoS in of Geology & WRM PRSU, Raipur (C.G.), Under his guidance of all the 39 participants gave their microteaching on various topics related to module - 10 respectively. After this Prof. Hari made a brief analysis of microteaching

and gave necessary suggestions to the participants and congratulate all the participant for successfully completing 30 days FIP program.



Prof. C. B. Sharma

In last two consecutive sessions were taken by **Prof. C.B. Sharma** School of Education, Indira Gandhi National Open University (IGNOU), New Delhi, on “What is unique about educational planning and management?” & “Implementation of educational planning and management”. Regarding

the importance of educational planning, Sir said that it is very important because it ensures the success of an institution. Educational planning is the way forward in the direction of achieving the possible objectives and goals. Sir where further implementation plans are of one to three years and explain the steps to achieve the goal. A key consideration in this process is defining indicators of progress. In the end thanking all the participants and wishing everyone a bright future.

Day 30 : (04/09/2021)

Valedictory

Human Resource Development Centre
valedictory session

Online Faculty Induction Program

06/09/2021

03 Aug. to 06 Sept. 2021

Chief Guest: Prof. Keshari Lal Verma, Hon'ble VC

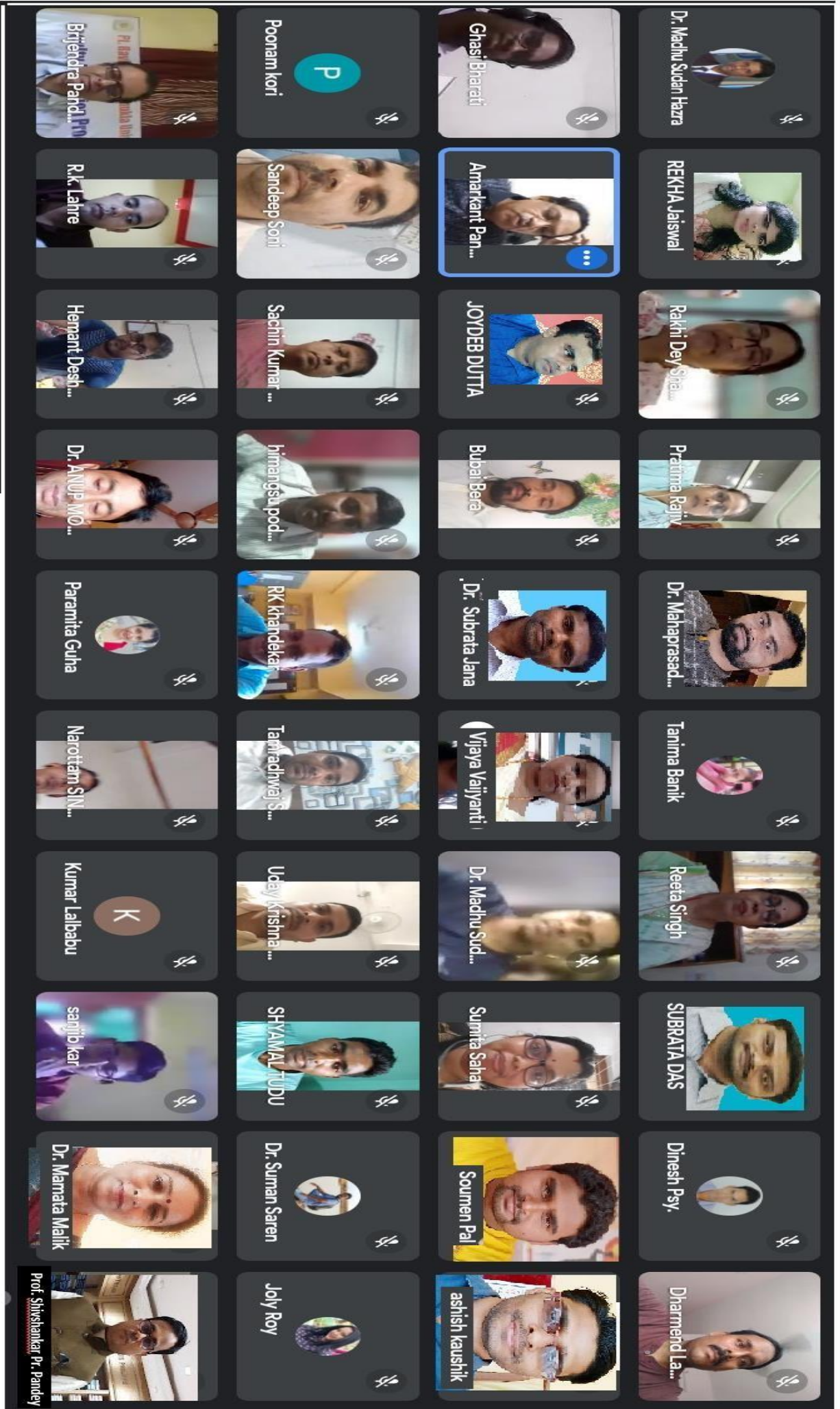
Pt. Ravishankar Shukla University Raipur - 492 010, Chhattisgarh

Dr. Shailendra Saraf Director

Dr. Brijendra Pandey Course Coordinator

On the last day of the Faculty Induction Program, the special guest of the concluding session Prof. Of. L. Verma, Vice Chancellor, PRSU, Raipur (C.G.), presided over by Prof. Shailendra Saraf, Director, HRDC, PRSU, Raipur (C.G.) and Dr. Brijendra Pandey, Course Coordinator were present. The special guest and the chairman gave their brief speeches and after receiving feedback from the participants they wished them for their bright future. In the end Dr. Brijendra Pandey Course Coordinator gave the vote of thanks.

Participants During Group Discussion



Systems of Assessment

A variety of assessment methods were used to assess the interest and learning ability of the participants, based on the methods of assessment described in the Guru-Dakshata e- book. The evaluation methods and the division of marks in them are as follows -

SN	Activity	Module										Total	
		1	2	3	4	5	6	7	8	9	10		
1	Objective Test	10	10	10	10	10	10	10	10	10	10	10	100
2	Seminar	-	-	-	-	20	-	-	-	-	-	-	20
3	Brainstorming	-	10	-	-	-	-	-	-	-	-	-	10
4	Discussion	-	-	-	-	-	-	-	10	-	-	-	10
5	Individual Activity	-	10	-	-	-	-	-	-	-	-	-	10
6	Exercise on Assessment and Evaluation	-	-	10	-	-	-	-	-	-	-	-	10
7	E - Content Development	-	-	-	20	-	-	-	-	-	-	-	20
8	Project Proposal	-	-	-	-	-	30	-	-	-	-	-	30
9	MicroTeaching	-	-	-	-	-	-	10	-	-	10	-	20
10	Assignment	-	-	-	-	-	-	10	-	-	-	-	10
11	Brief notes on SDG and its various dimensions	-	-	-	-	-	-	-	-	10	-	-	10
12	Holistic Assessment	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25
13	Multiple Choice Test at the end covering all the modules	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25
Total		15	35	25	35	35	45	35	25	25	25	25	300

If the teacher is able to score 210 marks out of 300, he/she will get 70 Marks (70 and above – “A” – Grade)

ORGANISING TEAM



Prof. K. L. Verma
Vice Chancellor
Pt. RSU, Raipur (C.G.), India



Dr. Shailendra Saraf
Director
HRDC, Pt. RSU, Raipur (C.G.), India



Dr. Brijendra Pandey
Course Coordinator
HRDC, Pt. RSU, Raipur (C.G.), India

UGC - HRDC, PRSU, Raipur, Chhattisgarh
Time Table:
Faculty Induction Program (GURUDAKSHITA)

	Session - I (10:30 to 12:00)	Session - II (12:15 to 13:45)	Session - III (14:15 to 15:45)	Session - IV (16:00 to 17:30)
First Week				
Day 01 03.08.21	Registration, Inauguration & Induction	Lecture 1 (Module 1) Dr. Neeraj Upmanu Professor, Head of Institute- School of Pharmacy & Research & Head of Faculty-Pharmacy, People's University Bhopal Schemes under UGC, ICSSR, ICHR, DBT and any other funding agencies. neerajupmanvu2007@gmail.com 9425128642	Lecture 2 (Module 1) Prof. P.K. Singhal Department of Biotechnology, Rani Durgavati Vishwavidyalaya Jabalpur Status of Indian Higher Education System. pkSinghalrdvv@gmail.com 9893675065	Lecture 3 (Module 1) Prof. P.K. Singhal Department of Biotechnology, Rani Durgavati Vishwavidyalaya Jabalpur Reforms in Indian Higher Education System. pkSinghalrdvv@gmail.com 9893675065
Day 02 04.08.21	Lecture 4 (Module 1) Prof. Arbind Kumar Jha Dean, School of Education, BB Ambedkar University, Lucknow Current Trends in Higher Education: Indian and Global perspective. drarbind1@gmail.com 8055801199; 9805701199	Lecture 5 (Module 1) Prof. Swarnlata Saraf SoS in Pharmacy Pt. Ravishankar Shukla University Raipur. Current challenges and opportunities in Indian higher education - implications for the everyday classroom swarnlataSaraf@rediffmail.com 9425522945	Lecture 6 (Module 1) Prof. C.B. Sharma School of Education, Indira Gandhi National Open University (IGNOU), New Delhi. The Idea of a University cbsharma01@gmail.com 9810512605	Lecture 7 (Module 1) Prof. C.B. Sharma School of Education, Indira Gandhi National Open University (IGNOU), New Delhi. Code of conduct, professional ethics, professional relationship and network cbsharma01@gmail.com 9810512605
Day 03 05.08.21	Lecture 8 (Module 1) Dr. Rama Devi Pani AIU, New Delhi History of one's own Institute universitynews@aiu.ac.in ; un_aiu@yahoo.com 9582573719	Lecture 9 (Module 1) Dr. Rama Devi Pani AIU, New Delhi Evolution of Higher Education universitynews@aiu.ac.in ; un_aiu@yahoo.com 9582573719	Lecture 10 (Module 1) Prof. LS Nigam Vice Chancellor, Shankaracharya Vishwavidyalaya, Bhilai University Act, Statute, Ordinances and its role and importance in governance lsnigam50@gmail.com Mobile: 8819079785	Lecture 11 (Module 1) Prof. LS Nigam Vice Chancellor, Shankaracharya Vishwavidyalaya, Bhilai Recognition under 2f and 12B of UGC Act lsnigam50@gmail.com Mobile: 8819079785
Day 04 06.08.21	Lecture 12 (Module 1) Prof. Anand Verdhan Sharma Sofia University Bulgaria Institutional Planning and Development anandsharma_64@yahoo.co.in 8208384895	Lecture 13 (Module 2) Dr. Richa Dayaramani Principal, Khyati College of Pharmacy, Ahmedabad Consideration for designing the curriculum 9825227209 richadayaramani1976@gmail.com	Lecture 14 (Module 2) Dr. S.P. Gupta Professor, Bipin Bihari College, Jhansi Comprehensive lecture on Choice Based Credit System and inculcation of Objective Test. spguptajhs@gmail.com 94150-30707	Lecture 15 (Module 2) Dr. S.P. Gupta Professor, Bipin Bihari College, Jhansi To enhance the quality building session related to Questionnaire Method. spguptajhs@gmail.com 94150-30707
Day 05 07.08.21	Lecture 16 (Module 2) Dr. Jayanti Dutta Deputy Director, Punjab University, Chandigarh. Framing curricular objectives and organisation of content jayantiduttaroy@yahoo.co.in 9988721401	Lecture 17 (Module 2) Dr. Jayanti Dutta Deputy Director, Punjab University, Chandigarh. Framing curricular objectives and organisation of content jayantiduttaroy@yahoo.co.in 9988721401	Lecture 18 (Module 2) Prof. Sudhanshu Bhushan, HOD, Higher and Professional Education, NUEPA, New Delhi. History and evolution of CBCS sudhanshu@niepa.ac.in 9873535224	Lecture 19 (Module 2) Prof. Sudhanshu Bhushan, HOD, Higher and Professional Education, NIEPA, New Delhi. CBCS and Outcome Based Learning sudhanshu@niepa.ac.in 9873535224
Day 06 09.08.21	Lecture 20 (Module 2) Dr. Richa Dayaramani Principal, Khyati College of Pharmacy, Ahmedabad Student evaluation using outcome-based learning richadayaramani1976@gmail.com 9825227209	Lecture 21 (Module 2) Prof. NinadBodhankar SoS in of Geology & WRM PRSU, Raipur CBCS-case studies of good implementation bninad21@gmail.com 9826515859	Lecture 22 (Module 2) Dr. S.P. Gupta Professor, Bipin Bihari college, Jhansi Brain Storming spguptajhs@gmail.com 94150-30707	Lecture 23 (Module 2) Dr. S.P. Gupta Professor, Bipin Bihari college, Jhansi Brain Storming spguptajhs@gmail.com 94150-30707
Day 07 10.08.21	Lecture 24 (Module 2) Prof. S. K. Bawa Professor & Dean School of Education, Central University of Punjab Bathinda To emphasize the systematic framework of curricular objective and content building process. sk_bawa2001@yahoo.co.in 9815323035	Lecture 25 (Module 2) Prof. S. K. Bawa Dean School of Education, Central University of Punjab Bathinda To elaborate teaching learning process, pedagogical principles and assessment. sk_bawa2001@yahoo.co.in 9815323035	Lecture 26 (Module 3) Prof. Sudarshan Panigrahi Department of Education MS University Baroda Vadodara (Gujarat) Teaching stratigies: constructivism, critical pedagogy and blended learning. panigrahi24@gmail.com 9725879874	Lecture 27 (Module 3) Prof. Sudarshan Panigrahi Department of Education MS University Baroda Vadodara (Gujarat) Teaching stratigies: constructivism, critical pedagogy and blended learning panigrahi24@gmail.com 9725879874
Day 08 11.08.21	Lecture 28 (Module 3) Prof. P.K. Tulsi Retd. Professor, National Institute of Technical Teachers' Training & Research, Chandigarh Assessment and Evaluation: Assessment for learning and assessment of learning pk_tulsi@yahoo.com Mob: 9814810932	Lecture 29 (Module 3) Prof. P.K. Tulsi Retd. Professor, National Institute of Technical Teachers' Training & Research, Chandigarh Assessment and Evaluation: Assessment for learning and assessment of learning pk_tulsi@yahoo.com Mob: 9814810932	Lecture 30 (Module 3) Prof. Asheesh Srivastava Dean School of Education Mahatma Gandhi Central University, Motihari, East Champaran, Bihar Effective Classrooms in Relation to NEP 2020 profasheesh@mngcub.ac.in 9933604836	Lecture 31 (Module 3) Prof. Asheesh Srivastava Dean School of Education Mahatma Gandhi Central University, Motihari, East Champaran, Bihar Time management, use of humor in teaching, balancing firmness and friendliness profasheesh@mngcub.ac.in 9933604836

	Session - I (10:30 to 12:00)	Session - II (12:15 to 13:45)	Session - III (14:15 to 15:45)	Session - IV (16:00 to 17:30)
Day 09 12.08.21	Lecture 32 (Module 3) Prof. C.D. Agashe SoS in Physical Education, Pt. RSU Raipur Teaching my style cagash@yahoo.com 9425503534	Lecture 33 (Module 3) Dr. Vani Subramanyam, Rtd. Principal, Maitri College, Bhilai (C.G.) inclusive Multicultural classrooms and pedagogies vani.subramanyam@gmail.com 9424109906	Lecture 34 (Module 3) Dr. CS Vazalwar Associate Prof. & Head, Dept. of Education, GGU Central University, Bilaspur (C.G.) Lesson Planning - Basic idea, logic and different types, skills and techniques for writing lesson plans chandrashekhervazalwar@yahoo.com 9425223875	Lecture 35 (Module 3) Dr. CS Vazalwar Associate Prof. & Head, Dept. of Education, GGU Central University, Bilaspur (C.G.) Learning and the learner chandrashekhervazalwar@yahoo.com 9425223875
Day 10 13.08.21	Lecture 36 (Module 3) Prof. C.D. Agashe SoS in Physical Education, Pt. RSU Raipur Conceptual Learning cagash@yahoo.com 9425503534	Lecture 37 (Module 3) Dr. Hima P. Bindu Department of Physics Osmania University Hyderabad Creating blogs, Basics of creating Web pages hb.pitta@osmania.ac.in 9603120775	Lecture 38 (Module 3) Dr. Hima P. Bindu Department of Physics Osmania University Hyderabad Creating blogs, Basics of creating Web pages hb.pitta@osmania.ac.in 9603120775	Lecture 39 (Module 4) Dr. Madhuri Hooda Department of Education, Maharshi Dayanand University, Rohtak ICT based Assessment Methods hoodamadhuri@gmail.com 8295081122
Day 11 14.08.21	Lecture 40 (Module 4) Prof. K. Srinivas NUEPA, New Delhi Digital Initiatives of GOI: Building the Competencies of Teachers for online Teaching & OER: Concept & Licensing Search, Use & Reuse ksrinivas@niepa.ac.in 9988721401;	Lecture 41 (Module 4) Prof. K. Srinivas NUEPA, New Delhi Hands on Exposure on E- Content Development Tools drksvasu@gmail.com 9988721401;	Lecture 42 (Module 4) Dr. Madhuri Hooda Department of Education, Maharshi Dayanand University, Rohtak e-content development (script writing, shooting) hoodamadhuri@gmail.com 8295081122	Lecture 43 (Module 4) Dr. Madhuri Hooda Department of Education, Maharshi Dayanand University, Rohtak Creating blogs (ICT based exercise) – Modulating Webinars -Video editing hoodamadhuri@gmail.com 8295081122
Day 12 16.08.21	Lecture 44 (Module 4) Prof. K. Srinivas NUEPA, New Delhi Designing Online/MOOC Through MOODLE- Learning Management System drksvasu@gmail.com 9988721401	Lecture 45 (Module 4) Prof. K. Srinivas NUEPA, New Delhi Designing Online/MOOC Through MOODLE- Learning Management System drksvasu@gmail.com 9988721401	Lecture 46 (Module 4) Dr. Madhusudan J. V. Associate Professor, Department of Education and Education Technology, School of Social Sciences, University of Hyderabad Understanding online learning applications & system nirshri@gmail.com 94240-08004	Lecture 47 (Module 4) Dr. Madhusudan J. V. Associate Professor, Department of Education and Education Technology, School of Social Sciences, University of Hyderabad. Citation and referencing, IPR and copyright issues. nirshri@gmail.com 94240-08004
	Lecture 48 (Module 4) Dr. Madhusudan J. V. Associate Professor, Department of Education and Education Technology, School of Social Sciences, University of Hyderabad. Managing and Customizing Course in Moodle madhusudanjv@yahoo.co.in 917019596048	Lecture 49 (Module 4) Dr. Madhusudan J. V. Associate Professor, Department of Education and Education Technology, School of Social Sciences, University of Hyderabad. Logs and Analytics in MOODLE madhusudanjv@yahoo.co.in 917019596048	Lecture 50 (Module 4) Dr. Neeraj Upmanu Professor, Head of Institute- School of Pharmacy & Research & Head of Faculty-Pharmacy, People's University Bhopal Creating MOOCs: An Innovative Teaching Learning Toolcreating MOOCs: An Innovative Teaching Learning Tool dnisha@ignou.ac.in	Lecture 51 (Module 4) Dr. Neeraj Upmanu Professor, Head of Institute- School of Pharmacy & Research & Head of Faculty-Pharmacy, People's University Bhopal Online Education and Learning: SWAYAM and other Platforms dnisha@ignou.ac.in 9891471277
Day 14 18.08.21	Lecture 52 (Module 5) Prof. Rekha Acharya School of Economics DAVV, Indore (M.P) Work Life Imbalance and it's consequences mailforrekha@gmail.com Mob: 94240-02073	Lecture 53 (Module 5) Prof. Rekha Acharya School of Economics DAVV, Indore (M.P) Handling Different Types of Children mailforrekha@gmail.com Mob: 94240-02073	Lecture 54 (Module 5) Prof. J.C. Ajawni Rtd. Professor, Govt. Girls Degree College, Devendra Nagar Raipur Psychotherapy and Counseling icajawni@yahoo.com 9329100865	Lecture 55 (Module 5) Prof. J.C. Ajawni Rtd. Professor, Govt. Girls Degree College, Devendra Nagar Raipur Counseling strategies for better personal and class adjustment icajawni@yahoo.com 9329100865
Day 15 19.08.21	Lecture 56 (Module 5) Prof. (Dr.) Vipul Vyas Visiting Faculty, IRMA Director, Mann - The Mind, Mumbai Power of Emotional Intelligence in Work and Life contact@drvipulvyas.com 90040 43297	Lecture 57 (Module 5) Prof. (Dr.) Vipul Vyas Visiting Faculty, IRMA Director, Mann - The Mind, Mumbai Power of Emotional Intelligence in Work and Life contact@drvipulvyas.com 90040 43297	Lecture 58 (Module 5) Prof. Anurodh Singh Sisodia Director HRDC, LNIP, Gwalior Understanding stress and its impact at different levels, Managing Stress and time management 9425115712	Lecture 59 (Module 5) Prof. Anurodh Singh Sisodia Director HRDC, LNIP, Gwalior Understanding stress and its impact at different levels, Managing Stress and time management 9425115712
Day 16 20.08.21	Lecture 60 (Module 5) Prof. Sangeeta Jain Devi Ahilya Vishwavidyalaya Indore (M.P) Personality and its defining characteristics, Assessment of personality sangeetaims@gmail.com 94250- 62474	Lecture 61 (Module 5) Prof. Ashutosh Biswal Department of Education MS University Baroda Vadodara (Gujarat) Nature and types of adjustment problems: academic, emotional and social ab9825668982@gmail.com 9825668982	Lecture 62 (Module 5) Prof. Umesh Vashishtha, Ex Head and Dean, Faculty of Education, University of Lucknow Exceptional Students vashishthaumesh@yahoo.co.in 94155 21737	Lecture 63 (Module 5) Prof. Umesh Vashishtha, Ex Head and Dean, Faculty of Education, University of Lucknow Students with divergent socio-cultural background vashishthaumesh@yahoo.co.in 94155 21737

	Session - I (10:30 to 12:00)	Session - II (12:15 to 13:45)	Session - III (14:15 to 15:45)	Session - IV (16:00 to 17:30)
Day 17 21.08.21	Lecture 64 (Module 5) Anurima Roy Publisher and Chief <i>Editor</i> , Harper Collins Publishers India New Delhi, Mentorship anurimaroy1@gmail.com 9873809165	Lecture 65 (Module 5) Prof. S.K. Jadhav SOS in Biotechnology, Pt. Ravishankar Shukla University, Raipur Seminar jadhav9862@gmail.com 9827114218	Lecture 66 (Module 5) Prof. S.K. Jadhav SOS in Biotechnology, Pt. Ravishankar Shukla University, Raipur Seminar jadhav9862@gmail.com 9827114218	Lecture 67 (Module 6) Prof. Farooque Rizvi Principal Rizvi College of Arts, Sc & Commerce, Mumbai Conceiving teaching & research & the connection between the two. nuzza@gmail.com 7977421959
Day 18 23.08.21	Lecture 68 (Module 6) Prof. Bhaskar Mukherjee Department of Library and Information Science, BHU, Varanasi Software tools for research and for plagiarism check mukherjee.bhaskar@gmail.com www.mukherjeebhaskar.com 9479127090	Lecture 69 (Module 6) Prof. Bhaskar Mukherjee Department of Library and Information Science, BHU, Varanasi Software tools for research and for plagiarism check mukherjee.bhaskar@gmail.com www.mukherjeebhaskar.com 9479127090	Lecture 70 (Module 6) Dr. Prashant Srivastava Dept. of Geology, Govt. Science College, Durg Professional Development and quality Education prashant_k_shri@rediffmail.com www.mukherjeebhaskar.com 9827178920;	Lecture 71 (Module 6) Dr. Prashant Srivastava Dept. of Geology, Govt. Science College, Durg Bridging between teaching and research and importance of staying updated for quality. prashant_k_shri@rediffmail.com www.mukherjeebhaskar.com 9827178920;
Day 19 24.08.21	Lecture 72 (Module 6) Dr. Amit Alexander Associate professor National Institute of Pharmaceutical Education and Research NIPER Gauhati Software tools for research and for plagiarism check: Latex, Bibliographic, End Note, Bib Tex, Turnitin, Statistical, other open-sources tool: data in the public domain. amit.alexander@niperguwahati.ac.in +91 99073 33846	Lecture 73 (Module 6) Dr. Amit Alexander Associate professor National Institute of Pharmaceutical Education and Research NIPER Gauhati Software tools for research and for plagiarism check: Latex, Bibliographic, End Note, Bib Tex, Turnitin, Statistical, other open-sources tool: data in the public domain. amit.alexander@niperguwahati.ac.in +91 99073 33846	Lecture 74 (Module 6) Dr. Amrendra Pani AIU, New Delhi Fundamental of Strategic and Transformational leadership research@aiu.ac.in researchaiu@gmail.com 9818248913	Lecture 75 (Module 6) Dr. Amrendra Pani AIU, New Delhi Different kinds of leadership – results-oriented leadership, creative leadership, leading for creative results research@aiu.ac.in researchaiu@gmail.com 9818248913
Day 20 25.08.21	Lecture 76 (Module 6) Prof. Aruna Palta Vice Chancellor Hemchand Yadav University Durg Conducting Discipline-specific Research: planning, and writing a research proposal, funding opportunities, involving students in research Dr. Madhusudan J. V. Associate Professor, Department of Education and Education Technology, School of Social Sciences, University of Hyderabad. Managing and Customizing Course in Moodle madhusudanjv@yahoo.co.in 917019596048	Lecture 77 (Module 6) Prof. Aruna Palta Vice Chancellor Hemchand Yadav University Durg Preparing to become a PhD guide: roles and responsibilities 9424223822 Dr. Madhusudan J. V. Associate Professor, Department of Education and Education Technology, School of Social Sciences, University of Hyderabad. Logs and Analytics in MOODLE madhusudanjv@yahoo.co.in 917019596048	Lecture 78 (Module 6) Prof. Rajeev Chaudhari SoS in Physical Education, PRSU, Raipur Statistical tools to conduct quantitative and qualitative research chaudharyrajee@gmail.com 9616557777 Dr. Neeraj Upmanu Professor, Head of Institute- School of Pharmacy & Research & Head of Faculty-Pharmacy, People's University Bhopal Creating MOOCs: An Innovative Teaching Learning Tool drnisha@ignou.ac.in	Lecture 79 (Module 6) Prof. Rajeev Chaudhari SoS in Physical Education, PRSU, Raipur Research Ethics chaudharyrajee@gmail.com 9616557777 Dr. Neeraj Upmanu Professor, Head of Institute- School of Pharmacy & Research & Head of Faculty-Pharmacy, People's University Bhopal Online Education and Learning: SWAYAM and other Platforms drnisha@ignou.ac.in 9891471277
Day 21 26.08.21	Lecture 80 (Module 6) Prof. N.K. Baghmar SOS in Geography Pt. Ravishankar Shukla University Raipur Project Proposal Mo.-9424228493	Lecture 81 (Module 7) Prof. Bhaskar Mukherjee Department of Library and Information Science, BHU, Varanasi Predatory journal or predatory practice - which to be controlled. mukherjee.bhaskar@gmail.com www.mukherjeebhaskar.com 9479127090	Lecture 82 (Module 7) Prof. Shalini Lihitkar Department of Library and Information Science, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur Emerging profiling tools to enhance research visibility shalinilihitkar2015@gmail.com www.mukherjeebhaskar.com 8999159519	Lecture 83 (Module 7) Prof. Shalini Lihitkar Department of Library and Information Science, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur Use of Reference management tools to avoid violation of publication ethics shalinilihitkar2015@gmail.com www.mukherjeebhaskar.com 8999159519
Day 22 27.08.21	Lecture 84 (Module 7) Dr. Supernsen Gupta Pt. Ravishankar Shukla University, Raipur Academic Integrity Academic Integrity and Consequences of Academic Integrity Breaches library_prsu@rediffmail.com	Lecture 85 (Module 7) Dr. Supernsen Gupta Pt. Ravishankar Shukla University, Raipur Honor Code and Honor Pledge library_prsu@rediffmail.com 9009828456	Lecture 86 (Module 7) Dr. Akhtar Parvez University Librarian Maulana Azad National Urdu University Hyderabad (Central University) Ethics and Challenges in Academic Matter akhtar@manuu.edu.in	Lecture 87 (Module 7) Dr. Akhtar Parvez University Librarian Maulana Azad National Urdu University Hyderabad (Central University) Ethics and Challenges in Academic Matter akhtar@manuu.edu.in

	Session - I (10:30 to 12:00)	Session - II (12:15 to 13:45)	Session - III (14:15 to 15:45)	Session - IV (16:00 to 17:30)
Day 24 30.08.21	Lecture 92 (Module 8) Prof. Kiran Gardner Professor, Dean Alliance University, Bangaluru Discrimination on the basis of caste, class and gender in classroom. kirang@gmail.com 9898715106	Lecture 93 (Module 8) Prof. Kiran Gardner Professor, Dean Alliance University, Bangaluru Prejudiced in examination curriculum, textbooks, classroom processes and research kirang@gmail.com 9898715106	Lecture 94 (Module 8) Dr. K. Subramaniam Rtd. IFS, CG Government Human Rights and Fundamental Duties manier1958@yahoo.co.in 9826148944	Lecture 95 (Module 8) Dr. K. Subramaniam Rtd. IFS, CG Government Human Rights and Fundamental Duties manier1958@yahoo.co.in 9826148944
Day 25 31.08.21	Lecture 96 (Module 8) Prof. Kiran Rai Associate Professor Mahastra National Law University Mumbai Role of education in creating a more equal and just Society kmrai@yahoo.com 8860471555	Lecture 97 (Module 8) Prof. Kiran Rai Associate Professor Mahastra National Law University Mumbai Anchoring professional ethics in universal values kmrai@yahoo.com 8860471555	Lecture 98 (Module 8) Prof. A.K.Pandey SOS in Economics Pt. Rvishankar Shukla University Raipur (Group Discussion) amarkantpandey3@gmail.com 8770199278	Lecture 99 (Module 8) Prof. A.K.Pandey SOS in Economics Pt. Rvishankar Shukla University Raipur (Group Discussion) amarkantpandey3@gmail.com 8770199278
Day 26 01.09.21	Lecture 100 (Module 9) Prof. Rajeev Chaudhari SoS in Physical Education, PRSU, Raipur Essentials for good Health and well being chaudharyrajee@gmail.com 9616557777	Lecture 101 (Module 9) Prof. Rajeev Chaudhari SoS in Physical Education, PRSU, Raipur Essentials for good Health and well being chaudharyrajee@gmail.com 9616557777	Lecture 102 (Module 09) Prof. Rajesh Kumar Dubey Professor, HRDC, Jodhpur University. The need of Environmental Consciousness directorhrdc@gmail.com 91982-18888	Lecture 103 (Module 09) Prof. Rajesh Kumar Dubey Professor, HRDC, Jodhpur University. Importance of Sustainable Development Goals directorhrdc@gmail.com 91982-18888
Day 27 02.09.21	Lecture 104 (Module 09) Prof. Rajesh Kumar Dubey Professor, HRDC, Jodhpur University. Necessity of SDG for a better society directorhrdc@gmail.com 91982-18888	Lecture 105 (Module 09) Prof. Rajesh Kumar Dubey Professor, HRDC, Jodhpur University. Necessity of SDG for a better society directorhrdc@gmail.com 91982-18888	Lecture 106 (Module 09) Dr. Manu Gouraha School of Studies in Sociology and Social Work Vikram University, Ujjain (M.P) How to achieve social justice manugouraha@gmail.com 94259-17211	Lecture 107 (Module 09) Dr. Manu Gouraha School of Studies in Sociology and Social Work Vikram University, Ujjain (M.P) Concept to improve the social and educational standards manugouraha@gmail.com 94259-17211
Day 28 03.09.21	Lecture 108 (Module 10) Prof. B.S. Thakur S.o.S in Mathematics, Pt. Ravishankar Shukla University, Raipur, C.G. Creating and developing a shared vision	Lecture 109 (Module 10) Prof. Shailendra Saraf Director HRDC, Pt. Ravishankar Shukla University, Raipur, C.G.. Preparing vision/missiondocument, state and institutional level strategic plan.	Lecture 110 (Module 10) Dr. K. Subramaniam Rtd. IFS, CG Government Strategic Planning: Indian Economy Post Covid manier1958@yahoo.co.in 9826148944	Lecture 111 (Module 10) Dr. K. Subramaniam Rtd. IFS, CG Government Causes and Effects of Indian Economy in Post Covid situation. manier1958@yahoo.co.in 9826148944
Day 29 04.09.21	Lecture 112 (Module 10) Dr. Nitin Malik Registrar Dr. B.R. Ambedkar University Delhi Defining Goals & Objective nitinmalik@aud.ac.in 8700081781	Lecture 113 (Module 10) Dr. Nitin Malik Registrar Dr. B.R. Ambedkar University Delhi Understanding work planning and its management nitinmalik@aud.ac.in 8700081781	Lecture 114 (Module 10) Prof. C.B. Sharma School of Education, Indira Gandhi National Open University (IGNOU), New Delhi. What is unique about educational planning and management? cbsharma01@gmail.com 9810512605	Lecture 115 (Module 10) Prof. C.B. Sharma School of Education, Indira Gandhi National Open University (IGNOU), New Delhi. Implementation of educational planning and management cbsharma01@gmail.com 9810512605
Day 30 06.09.21	Lecture 116 (Module 10) Prof. K.R. Hari SoS in of Geology & WRM PRSU, Raipur (Microteaching) krharigeology@gmail.com 9827984622	Lecture 117 (Module 10) Prof. K.R. Hari SoS in of Geology & WRM PRSU, Raipur (Microteaching) krharigeology@gmail.com 9827984622	Lecture 118 (Module 10) MCQ all Module	Valedictory

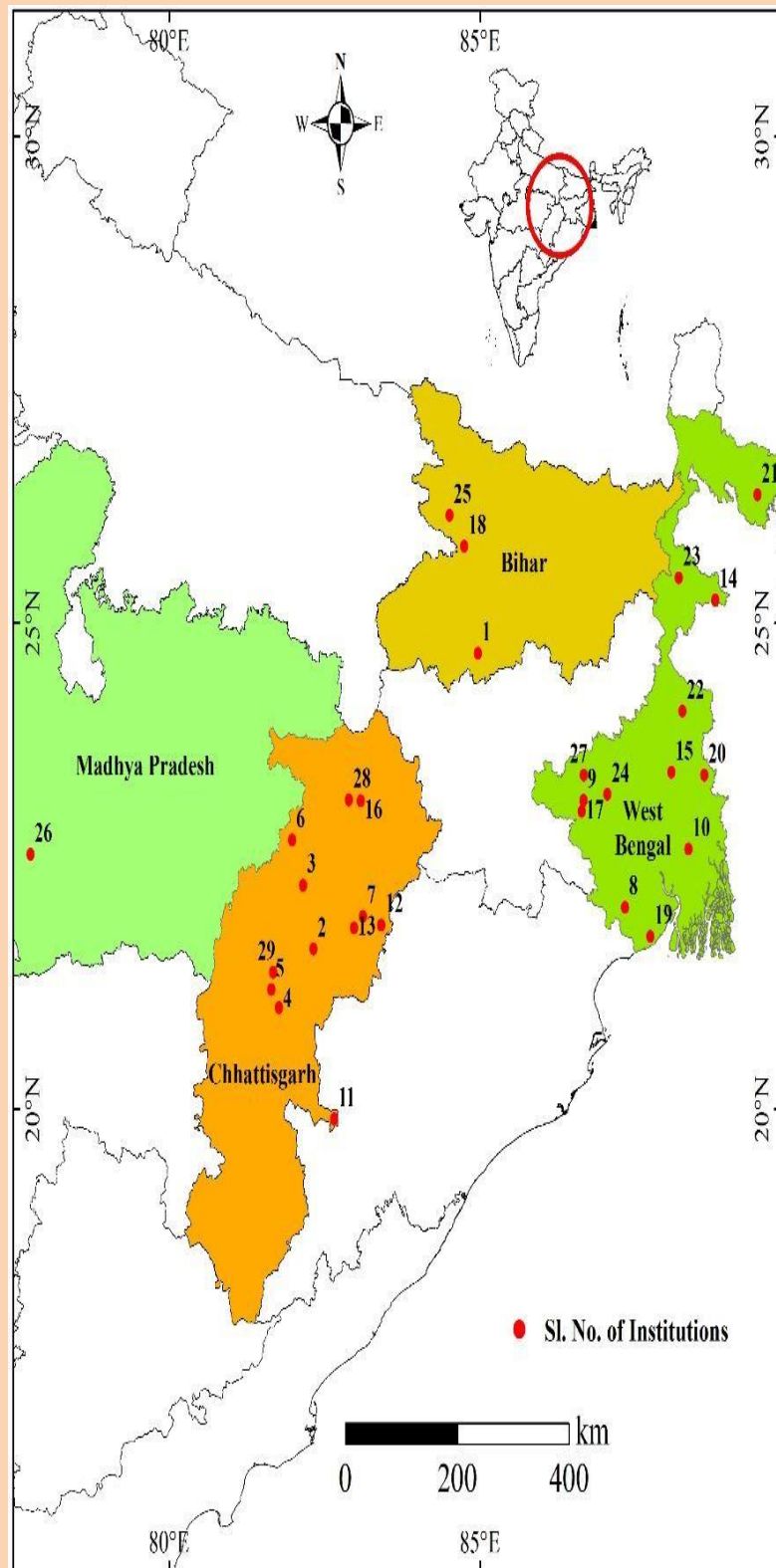
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35	Poonam Sahu	9981878776	Poonam1sahoo@gmail.com	Assistant Professor	Mathematics	Govt. Girls College, Itarsi, M.P.	Barkatullah University, Bhopal, M.P.
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38	Rekha Jaiswal	9827932708	rekha21jaiswal@gmail.com	Assistant Professor	Sociology	Govt. College, Premnagar, Dist-Surajpur, C.G.	Sant Gahira Guru Vishwavidyalaya, Sarguja, Ambikapur, C.G.
39	Tanima Banik	8910440791	ranianddodo@gmail.com	Assistant Professor	Political Science	Asannagar Madan Mohan Tarkalankar College, Asannagar, W.B.	University of Kalyani, Kalyani, Nadia, W.B.
40	Hemant Kumar Deshmukh	9755065724	deshmukh.hemant2012@gmail.com	Assistant Professor	Chemistry	Govt. Pt. Shyama Charan Shukla College Dharsiwa	Pt. Ravi Shankar Shukla University Raipur C.G.

**Human Resource Development Centre,
Pt. Ravishankar Shukla University Raipur, C.G.
Faculty Induction Program - 01
(03.08.2021 to 06.09.2021)
Chairperson Reporter List**

Date	Chairperson	Reporter
03/08/2021	Dr. Sachin Kumar Mandilwar	Ram Kumar Khandekar
04/08/2021	Shivshankar Prasad Pandey	Dr. Pratima Rajiv
05/08/2021	Dharmendra Ghritlahare	Tamradhwaj Shukla
06/08/2021	Reeta Singh	Dr. Rakhi Dey Sharma
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12/08/2021	Smt. Poonam Kori	Dr. Ghasi Ram Bharati
13/08/2021	Paramita Guha	Sandeep Kumar Soni
14/08/2021	Ashish Kaushik	Dr. Mamata Malik
16/08/2021	Vijaya Vaijyanti	Dr. Madhu Sudan Hazra
17/08/2021	Mahaprasad Ghosh	Soumen Pal
18/08/2021	Dr. Himangsu Poddar	Dr. Sumita Saha
19/08/2021	Rupai Hembram	Narottam Sinhamahapatra
20/08/2021	Lal Babu Kumar	Sanjib Kumar Kar
21/08/2021	Ram Kumar Khandekar	Shyamal Tudu
23/08/2021	Dr. Anup Mondal	Poonam Sahu
24/08/2021	Uday Krishna Mahato	Rekha Jaiswal
25/08/2021	Mr. Bubai Bera	Tanima Banik
26/08/2021	Joly Roy	Dr. Sachin Kumar Mandilwar
27/08/2021	Dr. Ghasi Ram Bharati	Shivshankar Prasad Pandey
28/08/2021	Sandeep Kumar Soni	Dharmendra Ghritlahare
30/08/2021	Ram Kumar Khandekar	Dinesh Kumar Kosaley
31/08/2021	Dr. Pratima Rajiv	Smt. Poonam Kori
01/09/2021	Tamradhwaj Shukla	Reeta Singh
02/09/2021	Dr. Rakhi Dey Sharma	Dr. Subrata Jana
03/09/2021	Dr. Sachin Kumar Mandilwar	Dr. Anup Mondal
04/09/2021	Joydeb Dutta	Uday Krishna Mahato
06/09/2021	Tanima Banik	Mr. Bubai Bera

Geographical Distribution of Participants & their Institutions



Sl. No.	Name of the Institutions	No. of Participants
1	Magadh University, Bodh Gaya	01
2	Govt. College, Lawan	01
3	Govt. Mahamaya College, Ratanpur	01
4	Govt. Kavyopadhyay Hiralal College, Abhanpur	01
5	Bhakt Mata Karma Govt. College, Samoda	01
6	Dr. Bhanvar Singh Porte Govt. College, Pendra	01
7	M.G. Govt. P.G. College, Kharsia	01
8	Belda College, Paschim Medinipur	02
9	Ramananda Centenary College, Purulia	03
10	Swami Niswambalananda Girls' College, Uttarpara	01
11	Pandit Shayam Shankar Mishra Govt. College, Deobhog	01
12	Kirodimal Govt. Arts & Science College, Raigarh	01
13	Govt. Vedram College, Malkharoda	02
14	Bahurghat Mahila Mahavidyalaya, Bahurghat	02
15	Chandrapur College, Chandrapur	02
16	Government College, Silphili	02
17	Manbhumi Mahavidyalaya, Manbazar	01
18	Ganga Singh College, Chapra	01
19	Prabhat Kumar College, Contai	01
20	Asannagar Madan Mohan Tarkalankar College, Asannagar	03
21	Cooch Behar College, Cooch Behar	01
22	Berhampore Girls' College, Berhampore	01
23	Dr. Meghnad Saha College, Ranipur	01
24	Bankura Sammilani College, Bankura	01
25	R.B.G.R. College, Maharajganj	01
26	Govt. Girls College, Itarsi	01
27	Kashipur Michael Madhusudan Mahavidyalaya, Kashipur	02
28	Govt. College, Premnagar	01
29	Govt. Pt. Shyama Charan Shukla College, Dharsiwa	01



**Human Resource Development Centre &
School of studies in Physics & Astrophysics
Pt. Ravishankar Shukla University, Raipur
Organized**

Online Refresher Course in Physics

August-16- August-28, 2021

Report

Name of Course/Program:	Online Refresher Course in Physics
Name of Contact person from HRDC:	Dr. Arvind Agrawal
Date of Course/Program:	16.08.2021 to 28.08.2021
Name of Course Coordinator:	Prof. Nameeta Brahme, Professor School of Studies in Physics and Astrophysics Pt. Ravishankar Shukla University, Raipur
Theme of Course/Program:	“New trends of teaching and research in physics”
Number of Participants:	37
State wise number of participants:	Chhattisgarh - 11, Tamil Nadu- 11, Madhya Pradesh – 04, Bihar – 02, Maharashtra – 06, Andhra Pradesh – 02, North East Shillong – 01
No. of Resource Persons:	35
Name and Signature of Course Coordinator	
Professor Nameeta Brahme	

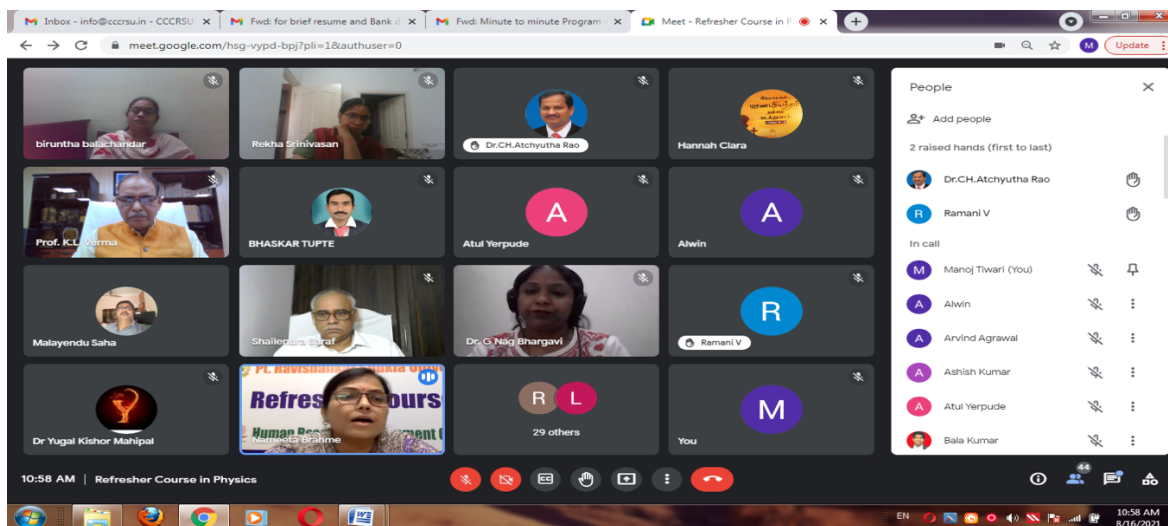
ONLINE REFRESHER COURSE IN PHYSICS (16.08.2021-28.08.2021)

Human resource development centre (HRDC), Pt. Ravishankar Shukla university Raipur has organized two weeks Refresher course in Physics held during 16.08.2021 to 28.08.2021. On the very first day during the inaugural session the honourable Vice-chancellor Prof. K L Verma in welcome address gave best wishes for organizing this course. Director, HRDC Prof. Shailendra Saraf welcomed the honourable Vice chancellor and the participants from various states of the country and wished them for their best performance during the course. The coordinator of the course Prof. Nameeta Brahme, professor, School of studies in physics and astrophysics introduced the session with the objectives and theme i.e. “New trends of teaching and research in physics”. He also gave a brief on the various topics to be covered and the resource persons who will join and train the participants. The assistant professors from various central and state universities from all the corners of the country were participated in this course. Most of the participants were from Southern states like Tamil Nadu and Andhra Pradesh also from central part Chhattisgarh and Madhya Pradesh and few of them were from Maharashtra, West Bengal, Meghalaya and Bihar. During this two-week refresher course 36 lectures were delivered by 34 subject experts of different fields. Experts from various renowned academic institutes like IIT- Delhi, Mumbai, Patna, Roorkee, Kharagpur, Banaras, from NIT- Warangal and Rourkela and national level research institutes like BARC, DRDO, IICT and professors from different central and state universities as well as many Vice-chancellors were invited to train the college and university teachers. All the experts discussed the recent trends in the teaching, learning and research in the various fields of physics. All the fundamental topics as per the syllabus at UG and PG levels were covered and discussed in detail during this course which include quantum mechanics, astro- physics, electronics, condensed matter physics, statistical physics and nano science and technology. All the participants were evaluated on their performance in various parameters like micro-teaching, Seminar, project ending test and holistic response. Dr. N K Chakradhari, Dr. Kavita Thakur and Dr. D P Bisen has judged the micro-teaching, seminar and project respectively.

Detail of date wise organized program

The online Refresher course in Physics was organized from 16/08/2021 to 28/08/2021. Various programmes were conducted date wise.

Day 1 (16/08/2021)



The Program started at 10.30a.m. with the welcome address by Dr. Arvind Agrawal, Assistant director, H.R.D.C., P.R.S.U. Raipur in the august presence of Respected Chief Guest Prof. K. L. Verma, Vice Chancellor, P.R.S.U. Raipur and Prof. Shailendra Saraf, Director, H.R.D.C., P.R.S.U. Raipur. Respected V.C. Prof. K.L. Verma got acquainted with all the participants, then the course coordinator Prof. Nameeta Brahme gave detailed information regarding the 12 days Online Refresher course in physics to the participants. In the end, the respected Vice Chancellor gave brief information about the program while congratulating the Participants



Director, HRDC.



Course Coordinator

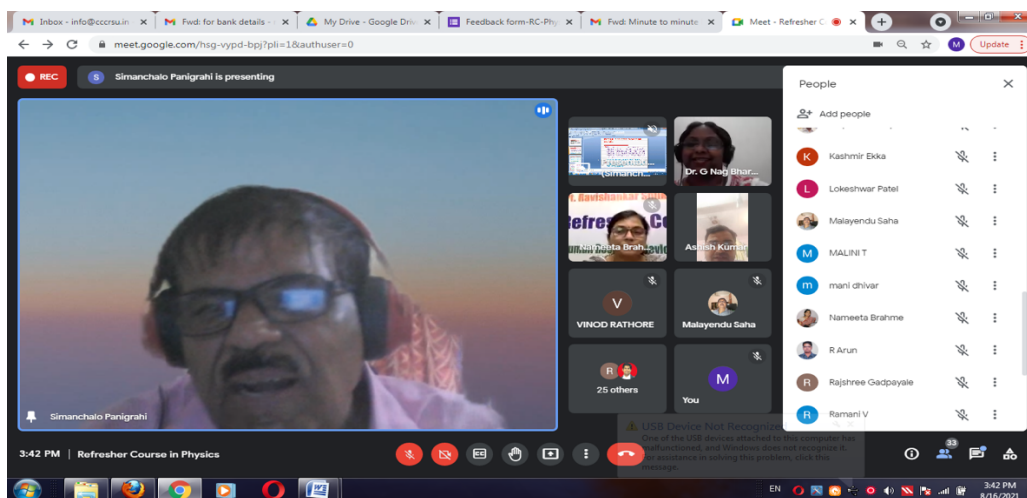
In the second session (12.15pm to 13.45pm) **Dr. S K Pandey**,

Former Professor, SOS in Physics and Astrophysics, P.R.S.U delivered a lecture on "A physicist view of the universe". Sir started with basic concepts on universe, galaxies and black holes. He also answered the questions of the participants on Black holes.



In the Third and Fourth session (14.15pm – 15.45pm & 16.00 pm – 17.30 pm)

Dr. Shimachala Panigrahi, Professor, Department of physics, National Institute of Technology, Rourkela delivered two talks namely “Quantum Paradox to Quantum reality I and II”. His session started with the basics of wave particle duality then he discussed the failures of classical mechanics. In the second part of his talk he explained in detail the quantum computation methods, quantum entangling etc. Prof. Panigrahi resolved the questions and doubts of the participants in an efficient manner.

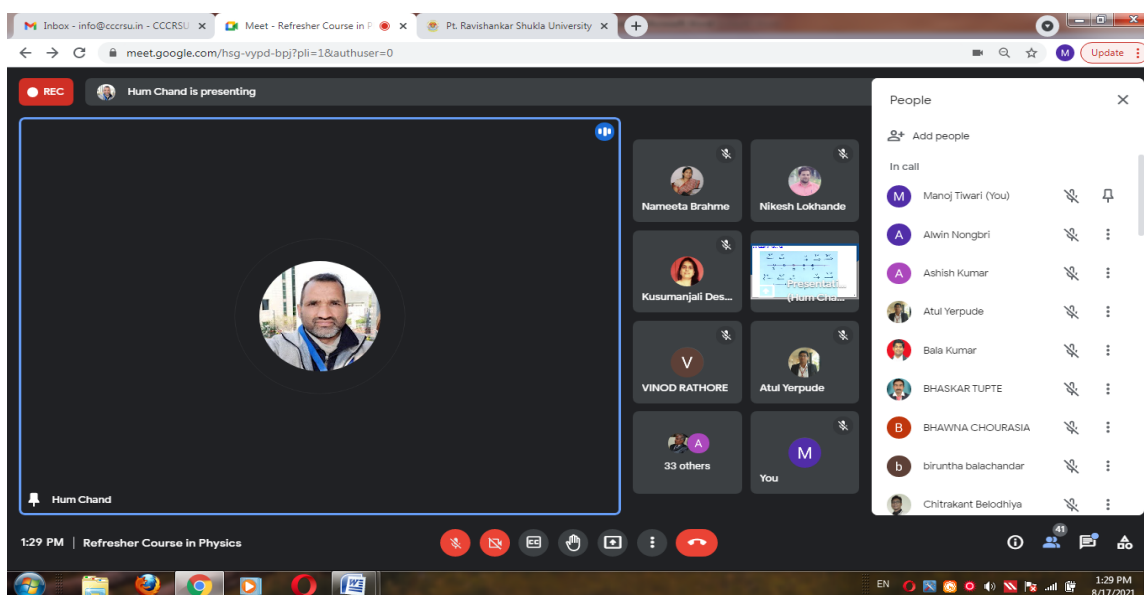


Day 2 (17/08/2021)

In the first session (10.30am – 12.00 noon) Dr. Giri Babu Principal Scientist, IICT, Hyderabad discussed on "Status of excitonic Solar cells". In his lecture, respected Giri Babu sir explained the current status of perovskite solar cells and their advantages over traditional solar cell. He also explained the scope of research in this field.



During the second session (12.15pm– 13.45pm) **Dr. Humchand**, Professor and Head Department of Physics and Astronomical Sciences, Central University of Himanchal Pradesh talks about "Extra galactic astronomy mainly consisting of observational cosmology ". He explained AGN probing and how evolution of universe can be explained with the help of AGN spectroscopy. At the end of his lecture, respected sir, addressed some of the queries of the participants.



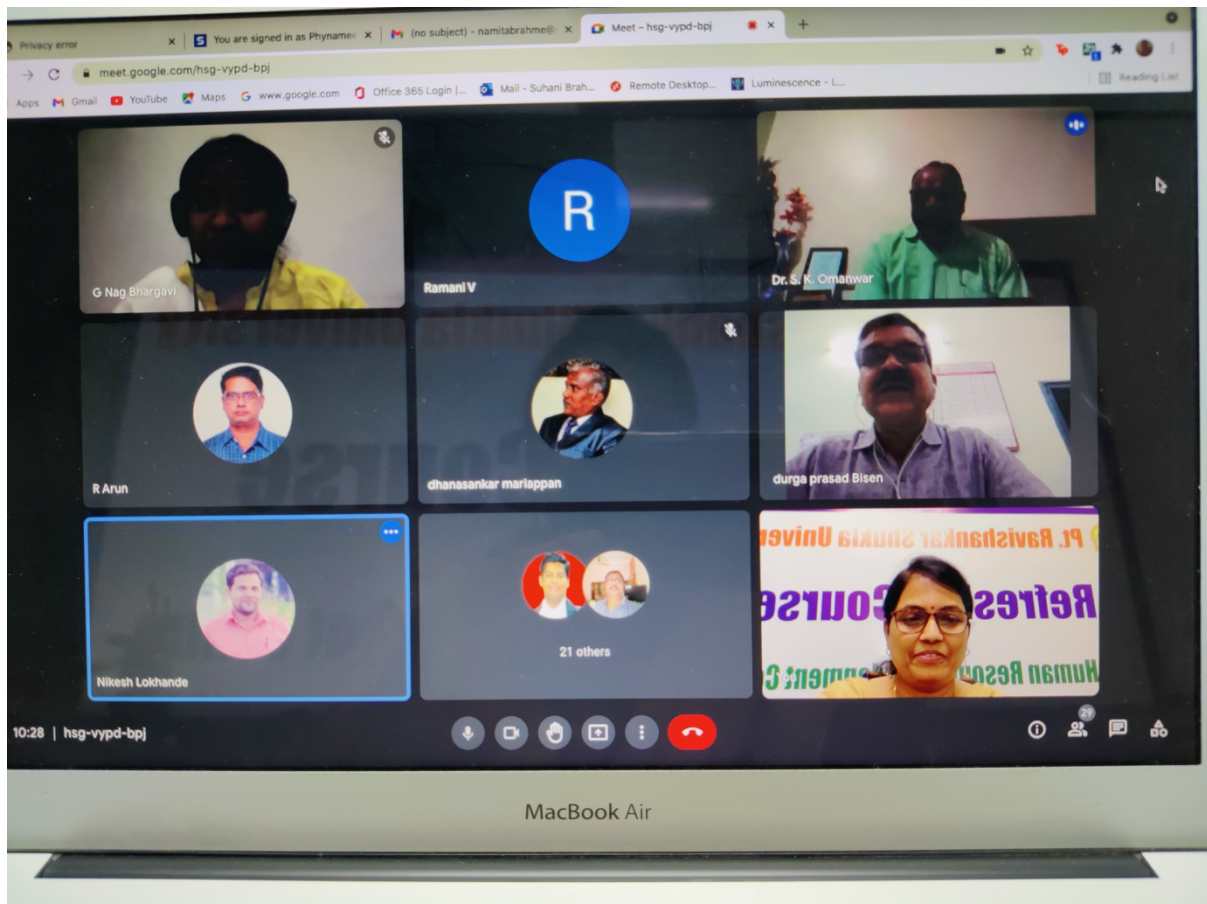
In the Third session (14.15pm – 15.45pm) **Dr. Tanmaya Badapanda**, Associate Professor, Department of Physics, C V Raman Global University, Bhubaneswar discussed on the topic "Ferroelectricity and Piezoelectricity in solids" Prof. Badapanda explained in a very interesting manner from the initial concepts of ferroelectricity and piezoelectricity in solids using thermodynamical relations and graphs. He also introduced the participants with his current research on the ferroelectric materials.

In the fourth session (16.00pm – 17.30pm), **Dr. Lakshman Pandey** Professor, Department of Physics and electronics, Rani Durgawati Vishwavidyalaya, Jabalpur, MP discussed on the topic “Basics of Impedance Spectroscopy”. He introduced the participants with the indigenous probe developed by him in 1992 to measure the impedance of the ceramic samples. He also explained the fundamental concepts of impedance spectroscopy and analysis of impedance data.



Day 3: (18/08/2021)

In first session (10.30am - 12.00 noon) Dr. S K Omanwar, Former Professor and UGC-BSR faculty fellow, Department of Physics, Sant Gadge Baba Amravati University, Amravati delivered his speech on "SPV challenges in 21st century". In the beginning of his talk he gave a brief about the requirement of solar energy for industrial and social applications. During the speech, he discussed about the solar photovoltaic cells, the materials used, their commercial needs and power generation from SPV and its efficiency. His presentation was very nice and informative with updated data.



In the second session (12.15pm - 13.45pm) Dr. R C Agarwal, Former Professor, SOS in Physics and Astrophysics, P.R.S.U, delivered his talk on “Solid state ionic conductors exotic energy materials: synthesis and materials characterization techniques. He explained the use of Alkali halides as ionic conductors and the recent trends in this field. He presented the talk in a very interesting manner to the participants and also cleared their various doubts as well.

In the Third session (14.15pm – 15.45pm) Dr. Ajit Kulkarni, Professor, Department of Metallurgy and Materials Engineering, Indian institute of Technology Bombay, Mumbai, Maharashtra delivered an interesting and useful talk on the topic “Piezoelectric ceramics: Concerns, solutions and Multifunctional applications”. In beginning sir gave some fundamental concepts on piezoelectricity like direct and indirect piezoelectric effect and the various parameters related to these effects. He graphically explained the macroscopic material behaviour, the hysteresis plots, the butterfly plots for strain measurements etc. he also gave a view on the choice of materials for industrial applications for the development of sensors, actuators etc. He also discussed the recent findings on piezoelectric materials done by his research group.

In the fourth session (16:00pm – 17:30pm) under the guidance of **Prof. N K Chakradhari**, SOS in Physics and Astrophysics, P.R.S.U., Raipur, 12 participants gave their microteaching on various topics related to module one after another. After this Dr. **Chakradhari**, made a brief analysis of the teaching methods and skills of the participants.

Day 4: (19/08/2021)

In the first session (10.30am – 12.00 noon) **Prof. P K Bhatnagar** of Department of Electronic Science, University of Delhi, South Campus, New Delhi, delivered his speech on "Recent trends in Organic LEDs". He explained the about the various types of Organic LEDs and the fundamentals physics of these OLEDs. He also aware the participants with white LEDs. He answered all the questions raised by the participants patiently.



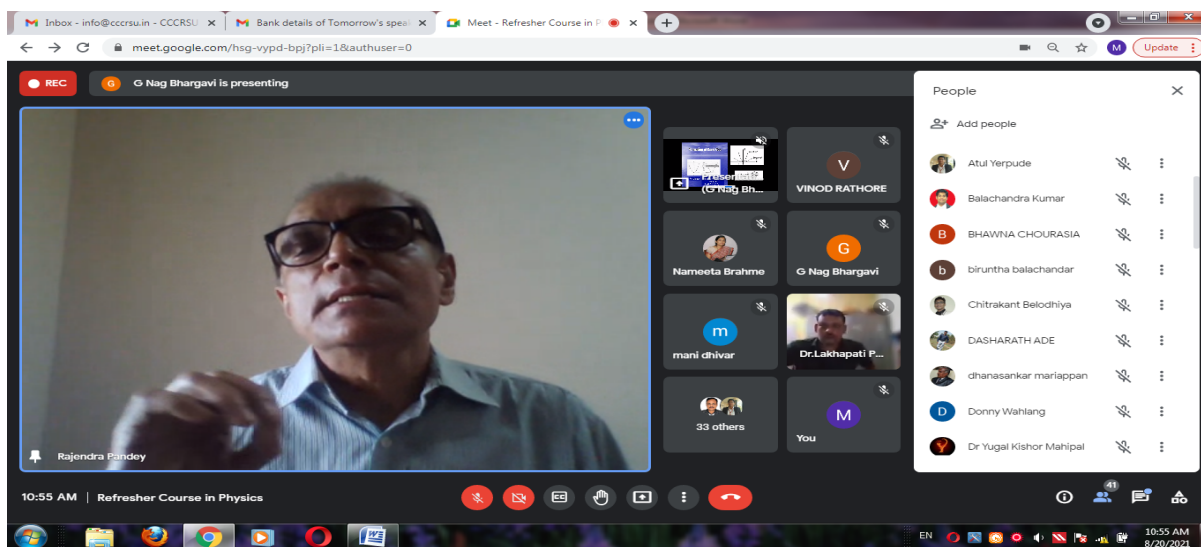
In the second session (12.15 pm– 13.45 pm) **Dr. Manoranjan Kar Associate Professor**, Indian Institute of Technology, Patna, deliberated the talk on “Physics of Magnetic Composites derived from soft and hard magnetic materials”. Respected Dr. Kar Started his talk with fundamental concepts of classical and quantum mechanics then he moved on to the crystalline structures, super structures and quasi crystals. Then he discussed the hard and soft magnetic materials. After that he explained the composite materials and nano-composites and their synthesis. He also answered the questions of the participants in a lucid manner.



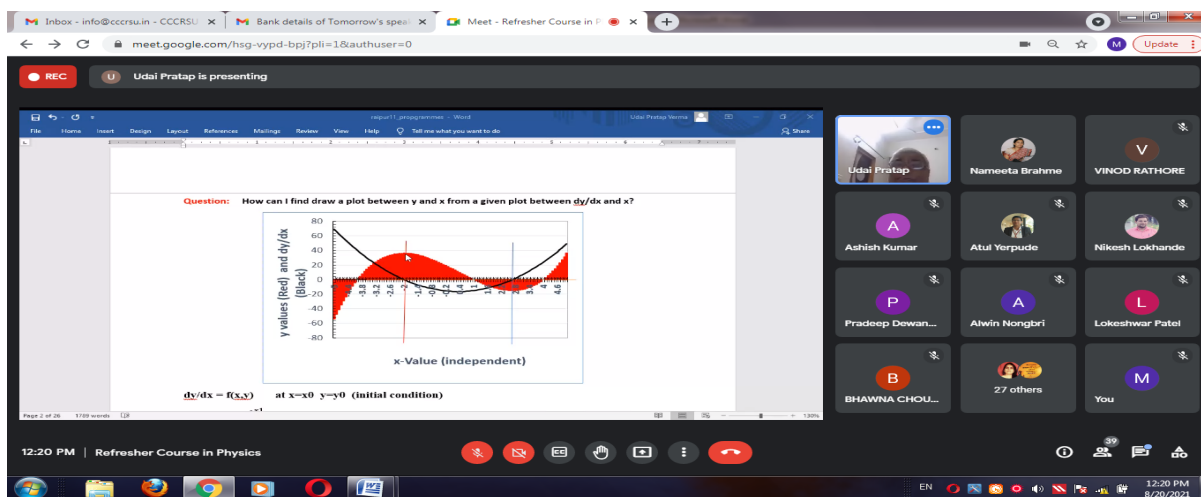
In last two consecutive sessions (14.15pm - 15.45pm and 16.00pm - 17.30pm) under the guidance of Prof. N K Chakradhari, SOS in Physics and Astrophysics, P.R.S.U., Raipur, remaining 25 participants gave their microteaching on various topics related to module one after another.

Day 5: (20/08/2021)

In first session (10.30 am - 12.00 noon) **Prof. R K Pandey**, Vice- Chancellor, Amity University, Raipur, explained about "World of Solid Materials: tailoring for future". In this talk, Dr. Pandey very concisely explained the Drude theory and Sommerfeld's model. He then differentiated the Bulk and nano materials. He also explained the 1D, 2D, 3D nano structures. Interacting with the participants he also talked about the Tight Binding Approximation. He also motivated the participants to work towards the all-round development of their students as well as enhancing their skills and critical thinking.



In the second session (12.15pm - 13.45pm) **Prof. U P Verma**, School of Physics, Jiwaji University, Gwalior, MP delivered a talk on "Numerical methods in Physics". In this session Prof. Verma mentioned various numerical and computational methods for non-linear and linear equations. He also showed some programs that elaborated the quantum states of electron at various energy values.



In the Third session (14.15pm –15.45pm) **Dr. H S Tiwari**, Professor, Department of Pure and Applied Physics, Guru Ghasidas Central University, Bilaspur (CG), delivered a talk on “Introduction of Perovskite oxides- based ceramics: Synthesis and applications”.

The mineral “**perovskite (ABO₃)**” was discovered by Gustav Rose and named after a Russian mineralogist, Count Lev Aleksevich von Perovski. The original compound found was calcium titanium oxide (**CaTiO₃**).

(Examples: $A^{1+}B^{5+}O_3$, $A^{2+}B^{4+}O_3$, $A^{3+}B^{3+}O_3$; $NaNbO_3$, $BaTiO_3$, $SrTiO_3$, $LaCoO_3$)

2:38 PM | Refresher Course in Physics

In the fourth session (16.00pm – 17.30pm) **Dr. R Harnath**, Associate Professor, National Institute of Technology, Warangal, Telangana elaborately discussed on the topic “Invisible fingerprint detection using afterglow phosphors for forensic applications”. Here he raised various issues related to the culprits and the different types and patterns of finger prints. He also made the participants about the new software developed to identify the finger prints.

Selecting the method for developing fingerprint

Choice of method will depend on the surface being lifted or tested. Hard and non-absorbent surfaces (glass, mirror, tile, and painted wood) require different approaches than soft and porous- paper, cloth, or cardboard.

- ✓ Physical methods are used for any dry, non-porous surfaces like glass or plastic
- ✓ Chemical processing methods for latent fingerprints on dry and wet surfaces

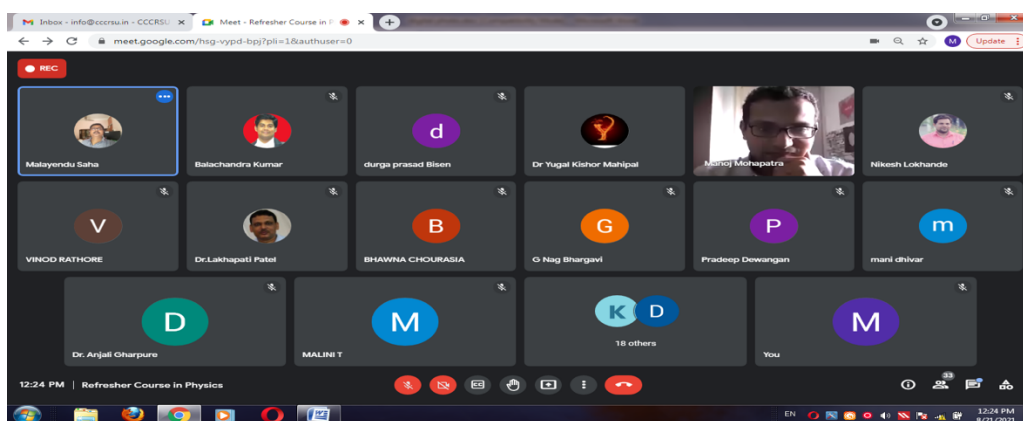
NIT WARANGAL

4:36 PM | Refresher Course in Physics

Day 6: (21/08/2021)

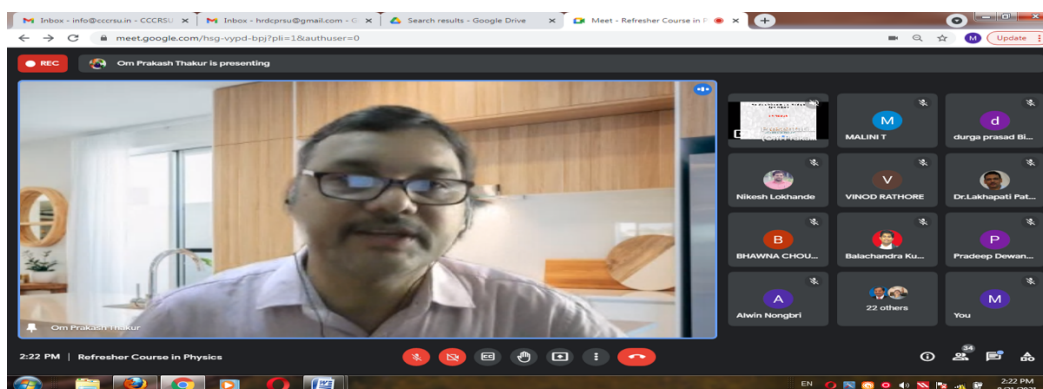
In the first session (10.30 am– 12.00 noon) **Dr. Ravi Sharma**, Assistant Professor, Department of Physics, Govt. Girls' College Devendra Nagar, Raipur, in his speech elaborately discussed on the topic “Nano Materials: New age materials”.

In the second session (12.15pm - 13.45pm) **Dr. Manoj Mohapatra**, radiochemistry division BARC, Trombay, Mumbai, delivered a talk on "A brief look at molecular spectroscopy: from Luminescence to magnetic resonance".

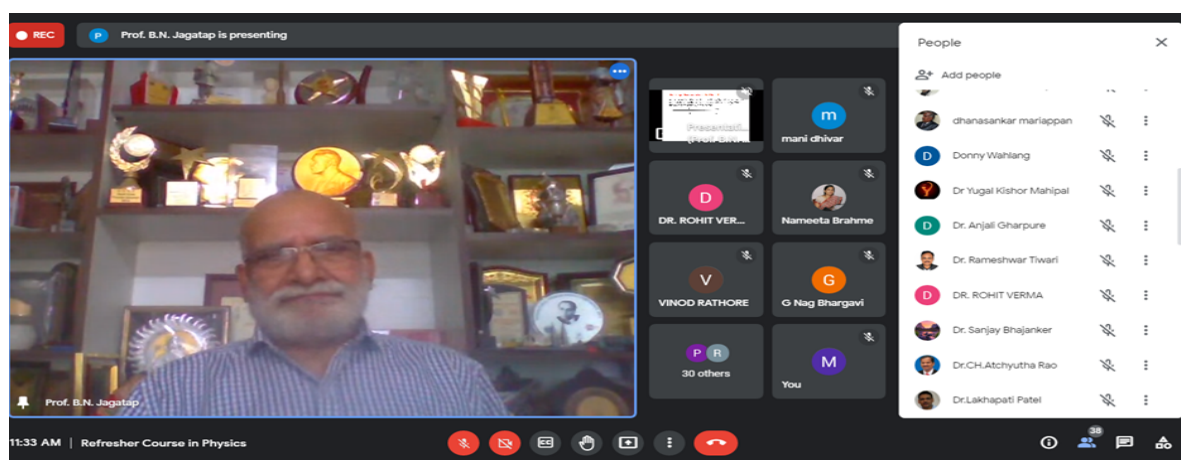


In the Third session (14.15pm –15.45pm) **Dr. Omprakash Thakur**, Scientist F, Physics Lab, DRDO Timarpur, Delhi, delivered talk on “Functional ceramics for strategic applications”.

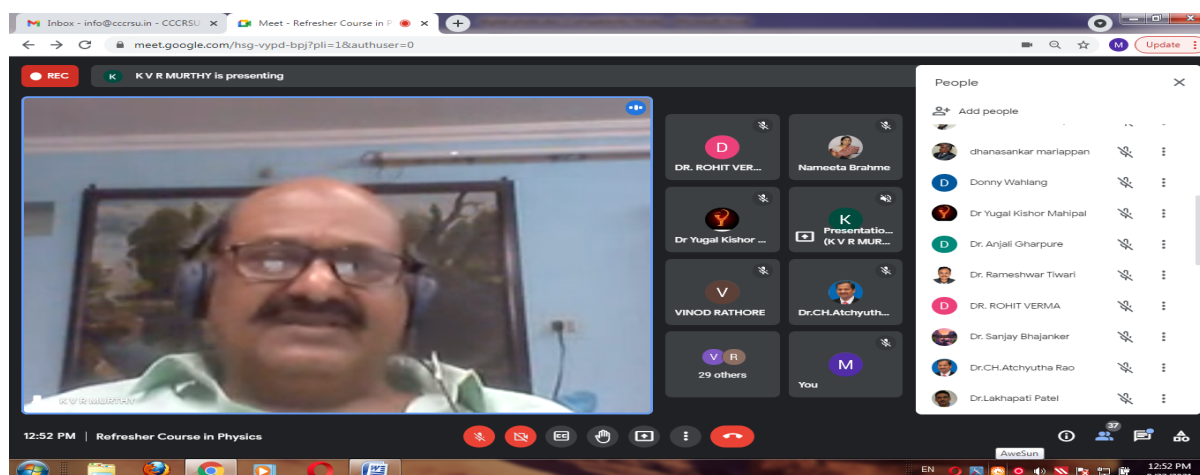
In the fourth session (16.00pm – 17.30pm) **Dr. R N Baghel**, Former Professor, SOS in Physics and Astro-Physics, PRSU, Raipur elaborately discussed on the topic “Basics of Microprocessor”.



Day 7: (23/08/2021)



In the first session (10:30am- 12:00 noon) **Prof. B N Jagtap, Professor, Indian Institute of Technology, Mumbai**, delivered lecture on "Teaching Science and NEP-2020". While discussing in detail on NEP 2020, giving complete information regarding 5+3+3+4, he also told its importance for the complete development of the students. Now we have multidisciplinary approach, in which students can do their studies by choosing different subjects and institutions as per their convenience.



The second session (12.15pm – 13.45 pm) was taken by **Dr. K V R Murthy, Professor, Faculty of Technology, M. S. University, Vadodara**, delivered lecture on "Organic Light Emitting Diodes". He discussed about the various aspects about LEDs.

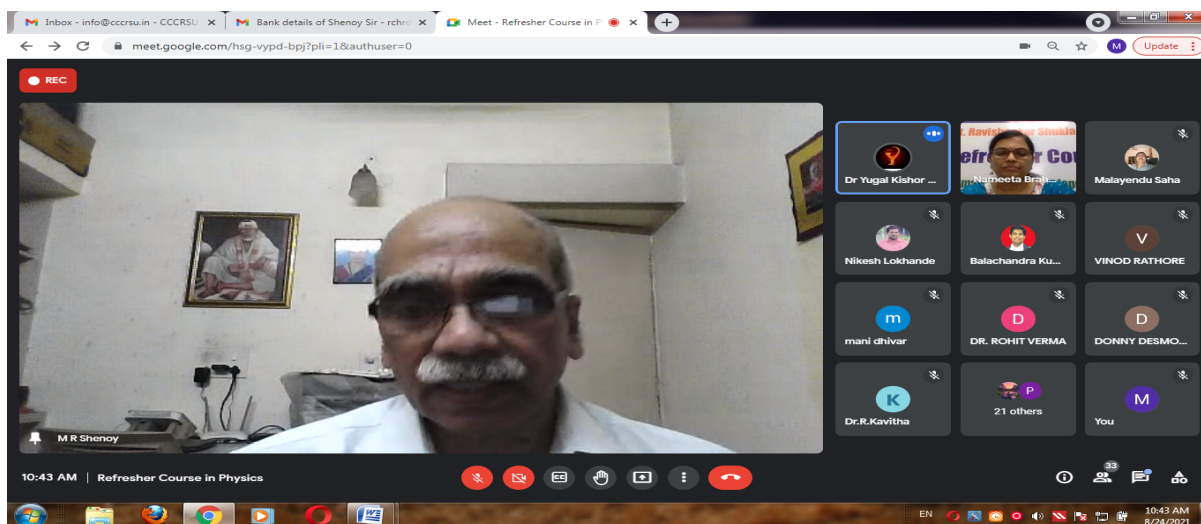
In the third sessions (14.15 pm - 15.45 pm) **Dr. Balak Das, Professor, Department of Physics, Lucknow University, UP** delivered lecture on "Powder X-ray Diffraction". He explained the physics of X-ray diffraction and discussed powder diffraction method in detail. He also the answered the queries raised by the participants patiently.



In the fourth session (16.15pm - 17.30pm) under the chairmanship of **Prof. Kavita Thakur** SOS Electronics, Pt. Ravishankar Shukla University, Raipur, we had seminar as per the module. 12 participants presented their seminar one by one, which was evaluated by Prof. Thakur. After the seminar he had given some suggestions to develop the skill of presenting seminar paper. At the end of the session chairperson was given thanks for evaluating the seminar presented by the participants.

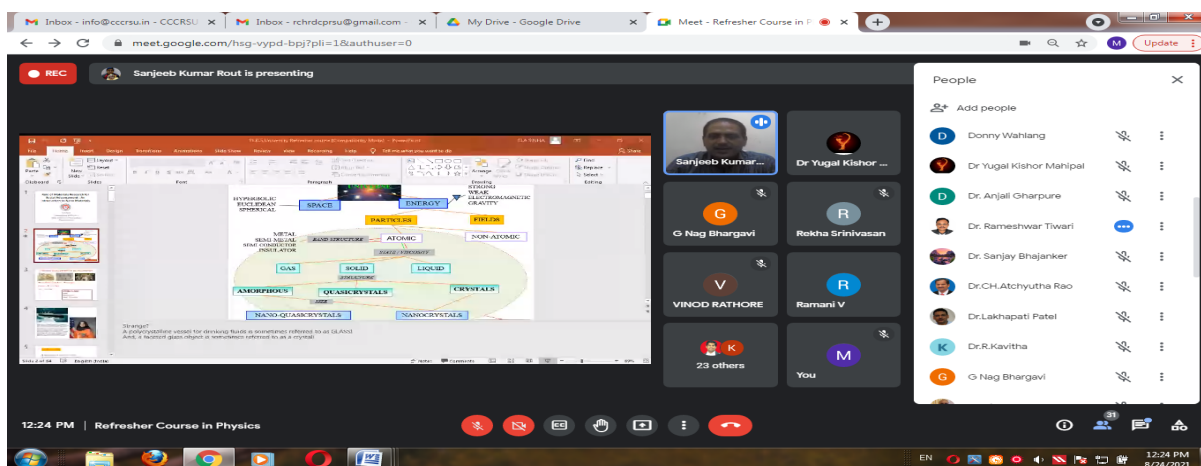
Day 08: (24/08/2021)

In first session (10.30 am - 12.00 noon) Prof. M R Shenoy, Professor, Department of Physics, Indian Institute of technology, Delhi given lecture on “Optoelectronic Devices”. In his lecture, Dr. Shenoy gave information about semiconducting opto electronic materials including direct and indirect semiconductors, III-V group compounds etc.



In the second session (12.15pm - 13.45pm) **Dr. S K Rout**, Professor, Department of Physics, Birla Institute of technology, Mesra given lecture on “Role of materials research for social development”. He discussed the nano-materials and related research.

In third & fourth sessions (14.15pm - 13.45pm and 16.15pm - 17.30pm) under the chairmanship of **Prof. Kavita Thakur** SOS Electronics, Pt. Ravishankar Shukla University, Raipur, we had seminar as per the module. 25 participants presented their seminar one by one, which was evaluated by Prof. Thakur.



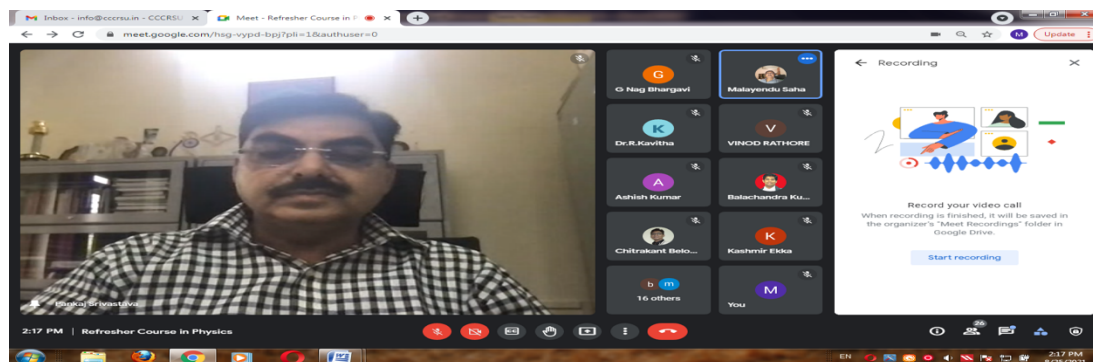
Day 9: (25/08/2021)

In the first session (10.30am – 12.00 noon) Prof. S A Hashmi, Professor, Department of Physics and Astro Physics, University of Delhi (North campus), new Delhi delivered his speech on “Carbon Supercapacitors as power sources: fundamentals and recent advances”.

In the second session (12.15 – 13.45), Dr. Dinakar, Professor, National Institute of Technology, Warangal, Telangana elaborately discussed on the topic “Optical fibers and their applications”. He made his talk very interesting by the videos shown during the talk. He also addressed various issues related to optical fibers.



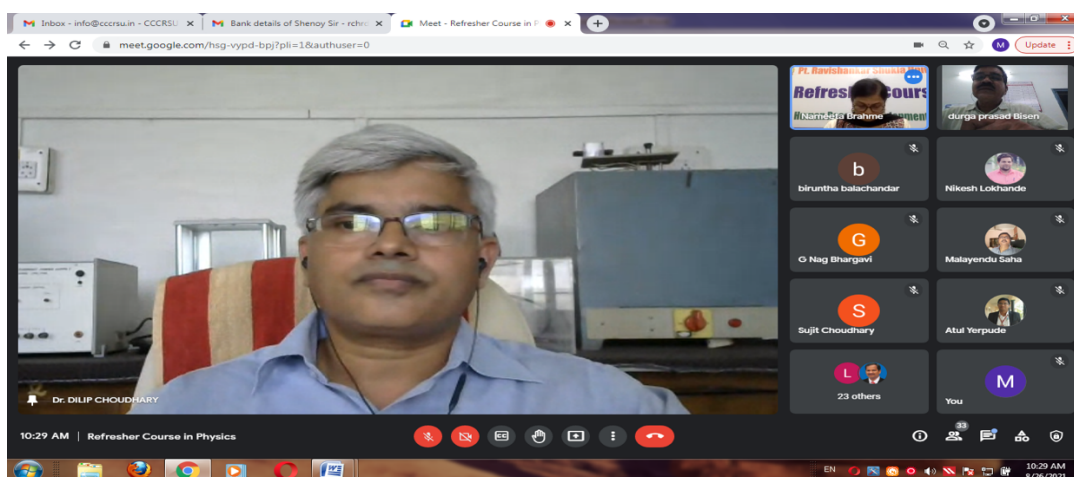
The third session (14.15pm - 13.45pm) was taken by Dr. Pankaj Shrivastava, Professor & Head, Dept. of Physics, IIITM, Gwalior (MP) delivered talk on “Crystallography and Crystal Structure”. He gave the concept of fundamentals of solid-state physics.



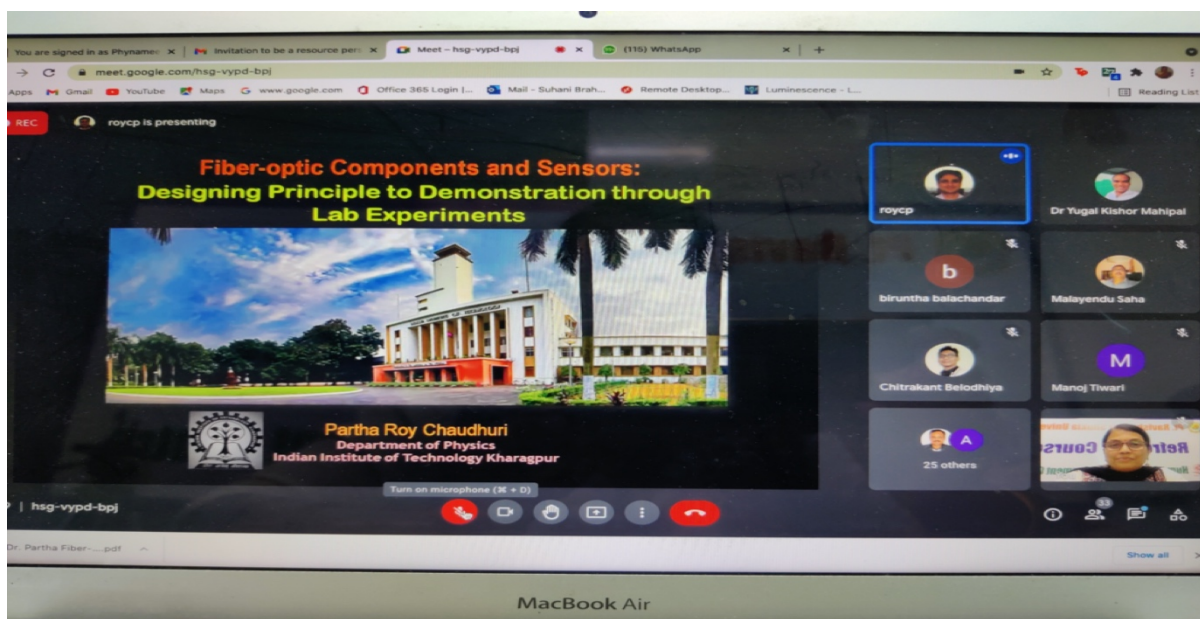
The fourth session (16.15 pm- 17.30pm) was the session for the projects to be presented by the participants. For this a group of four participants was formed by the course-coordinator. A total of 10 groups were created. Under the chairmanship of Prof. D P Bisen, Professor and Head, SOS in Physics and Astrophysics PRSU, Raipur CG the projects were presented by the groups. All the groups presented the project one by one. After each presentation Dr. Bisen suggested some necessary corrections to improve the quality of a research proposal. At the end of the session, chairperson was given thanks for evaluating the projects presented by the participants.

Day 10: (26/08/2021)

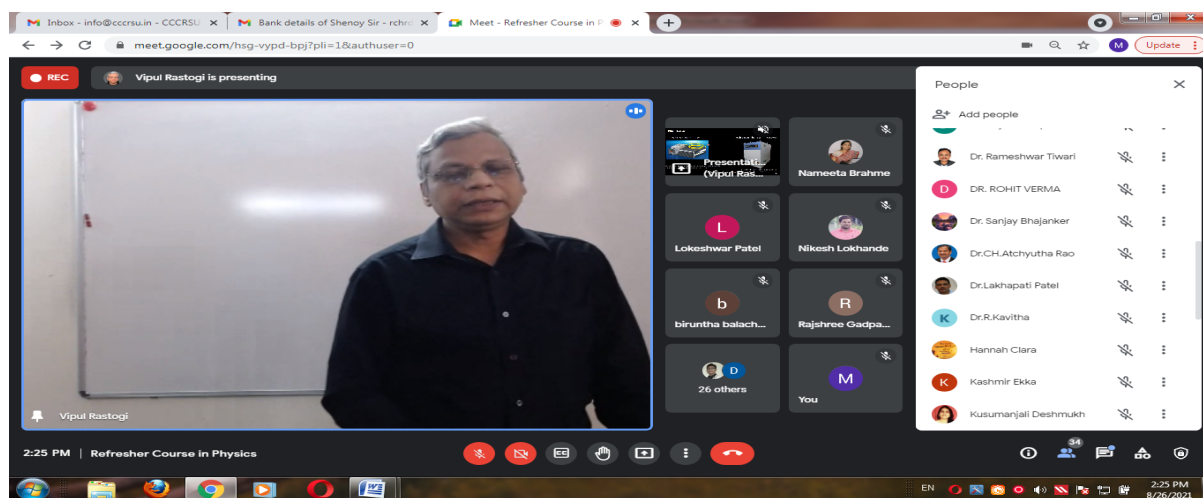
In the first session (10.30am - 12.00pm), **Prof. Dilip Kumar Chowdhary**, Department of Physics, D B Science College Gondia, delivered lecture on the topic "Converting your PC into a science laboratory using expEYES junior". He elaborated the topic starting with real world situation of knowledge and skills. This session was practical session where he experimentally shown the application of expEYES for conducting many experiments at UG and PG levels.



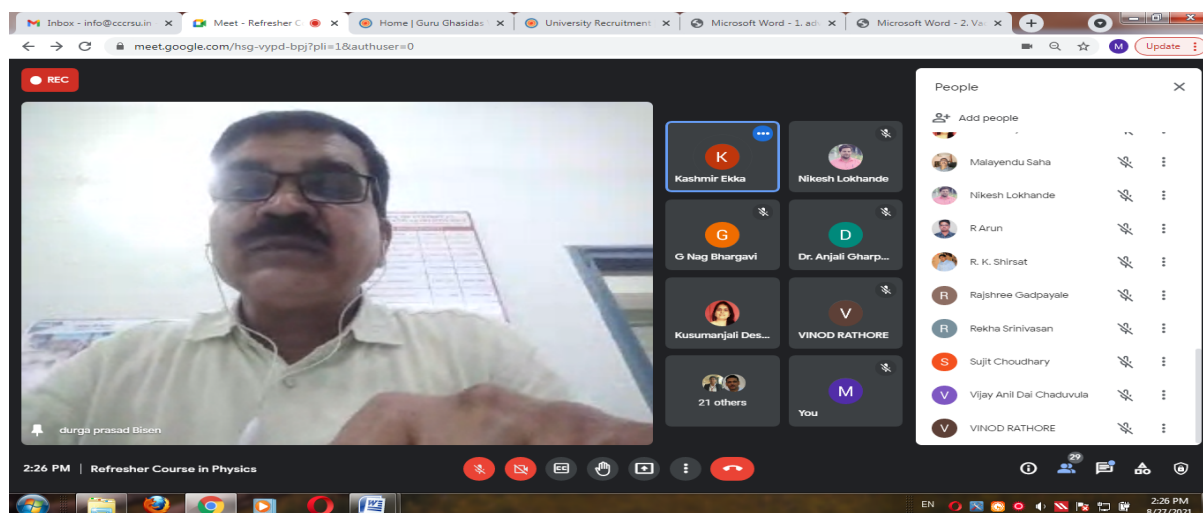
In the second (12.15pm - 13.45pm) **Dr. Parth Roy Chowdhari**, Professor, Department of Physics, Indian Institute of Technology, Kharagpur excellently presented her lectures on "Fibre optic components and sensors: Designing principle to demonstration through lab experiments". The session was very interesting and fruitful.



In the third sessions (14:15pm – 15:45pm) **Dr. Vipul Rastogi**, Professor, Department of Physics, Indian Institute of Technology, Roorkee, presented her lecture on "Fundamentals of Photonics". Sir started his talk with the basics of LASERs, he discussed the self and stimulated emissions. He also elaborated the terms like optical pumping, laser action, population inversion etc. He also cleared the doubts of the participants. Thesession was very interesting and interactive.

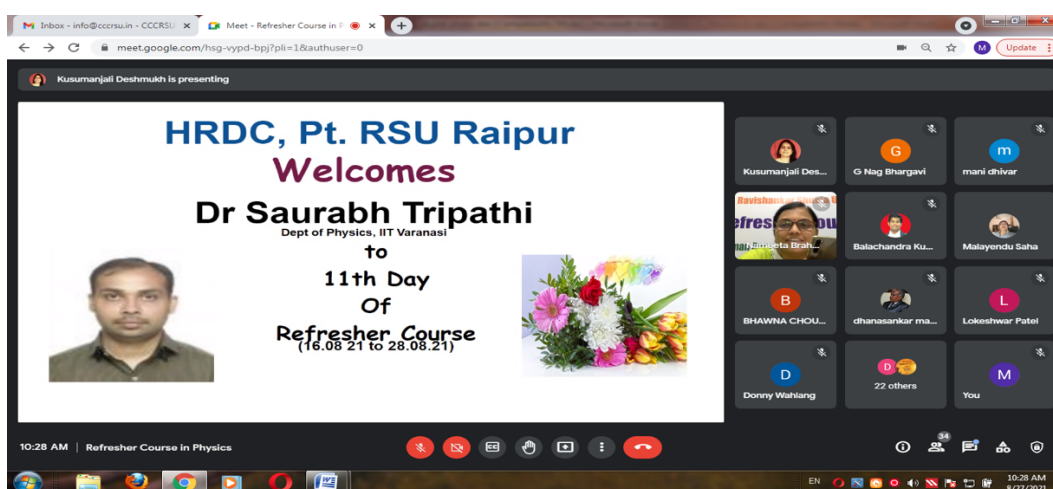


The fourth session (16.15 pm- 17.30pm) was the session for the projects, to be presented by the participants. Under the chairmanship of Prof. D P Bisen, Professor and Head, SOS in Physics and Astro Physics, PRSU, Raipur CG the projects were presented by the groups. All the groups presented the project one by one, which were evaluated by Prof. Bisen. After each presentation he suggested some necessary corrections to improve the quality of a research proposal. At the end of the session, chairperson was given thanks for evaluating the projects presented by the participants.

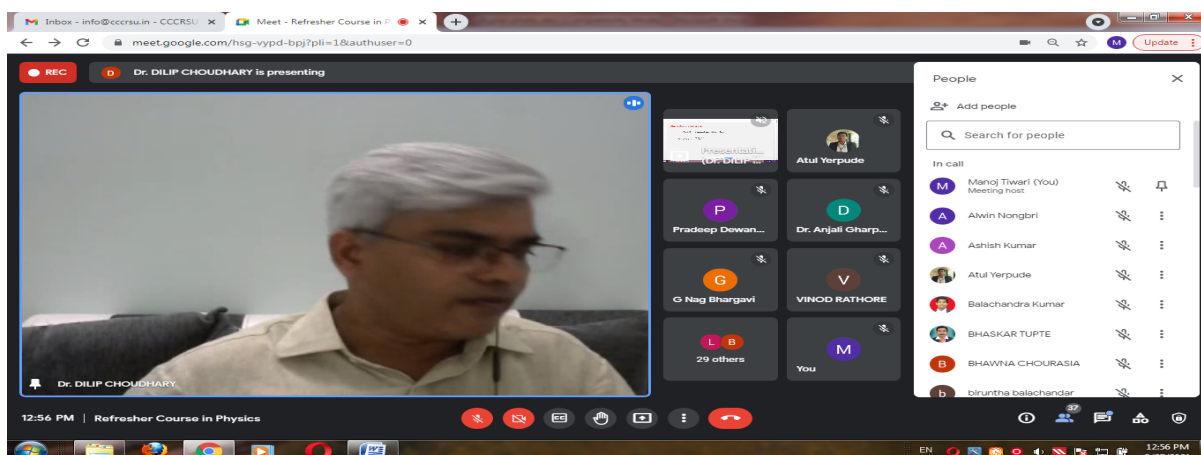


Day 11: (27/08/2021)

The first session (10.30 am- 12.00 noon) was taken by **Dr. Sourabh Tripathi**, Department of Physics, Indian Institute of Technology, Banaras Hindu University. He delivered the talk on "Unambiguous evidence of three coexisting ferroelectric phases in a lead-free LiNaNbO₃ system". He answered the queries of the participants, some the participants also discussed their current research and related issues and Prof. Tripathi satisfied the queries in very interactive manner.



In the session session (12.15pm - 13.45pm), **Prof. Dilip Kumar Chowdhary**, Department of Physics, D B Science College Gondia, delivered lecture on the topic "Development of Quantum Mechanics". Prof. Chowdhary started his talk with the Failures of Classical mechanics, Black Body radiation then he discussed the wave particle duality and Compton effect. The session was very interactive the expert and the participants discussed the related topics in a very fruitful manner.



The third & fourth consecutive sessions (14.15 - 15.45 and 16.00 - 17.30) were Chaired by Prof D P Bisen where he judged the projects presented by the remaining groups. In the end the participants thanked prof. Bisen for his valuable suggestions to improve their research caliber.

Day 12: (28/08/2021)

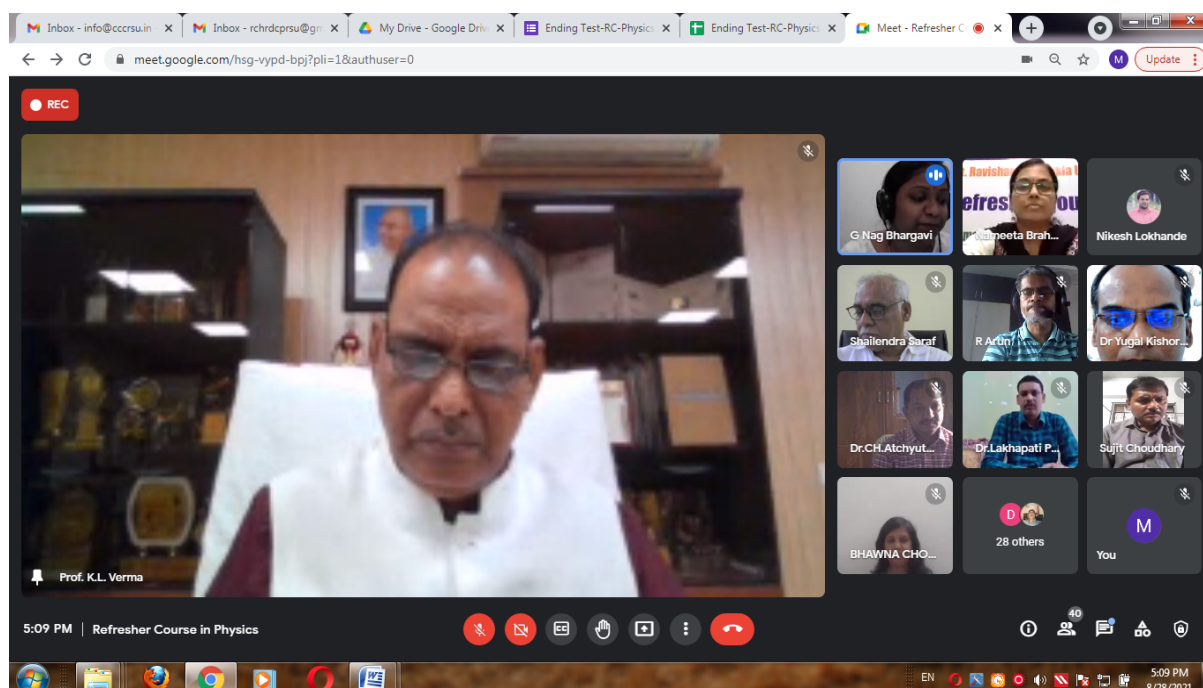


In first session (10.30am - 12.00 noon) Prof. Anshuman Dalvi, Professor, department of Physics, BITS Pilani, Rajasthan delivered talk on “High energy batteries and supercapacitors: recent trends in future”. In this talk he started fundamentally with discussion on batteries, capacitors and supercapacitors. He also discussed the generations of batteries and advancement in the field providing suitable examples. In the last segment of his presentation, he discussed the work done by his research group.

In second & third consecutive sessions (12:15pm- 13:45pm and 14.15pm - 15.45pm) the talks were delivered by Dr. Y M Gupta, Principal, Rungta College of Engineering, Raipur (CG). He delivered talks on “Basics of Statistical Physics I & II”. He started with the basic concepts of system, surroundings, ensembles, micro and macro-states etc. he also explained basic theories involved in the statistical physics. In the end thanking all the participants and wishing everyone a bright future.

VALEDICTORY FUNCTION

The Valedictory function was started at 5 pm in the esteemed presence of honourable vice-chancellor Prof. K L Verma, Director Prof. Shailendra Saraf and Course co-ordinator Prof. Nameeta Brahme. In the valedictory session the honourable vice-chancellor Prof. K L Verma, blessed the session and wished the organisers for successful completion of the course. Director Prof. Saraf wished all the participants for their excellent academic career. Three participants Dr. M Dhanshankar from Govt. Arts & Science College Sivakashi, Tamil Nadu, Dr. Ch Atchyuth Rao, Bapla College of Arts & Science, Bapla, Andhra Pradesh, Mr. Alwin Nongbri from Lady Kean College, Shilong Meghalaya gave feedback on the entire course. The final report was presented by the co-ordinator Dr. Nameeta Brahme. Dr. Arvind Agarwal, Assistant Director, HRDC gave the vote of Thanks. Then all had a group photo.



REC

 <p>Kusumanjali D...</p>	 <p>Shalendra Sar...</p>	 <p>Nameeta Brah...</p>	 <p>Balachandra K...</p>	 <p>G Nag Bhargavi</p>	 <p>Rekha Srinivas...</p>	 <p>Dr Yugal Kisho...</p>	 <p>VINOD RATH...</p>	 <p>biruntha balac...</p>	 <p>Dr.CH.Atchyt...</p>
 <p>Dr. Rameshwa...</p>	 <p>Sujit Choudhary</p>	 <p>DR. ROHIT VE...</p>	 <p>R Arun</p>	 <p>Malayendu Sa...</p>	 <p>Dr. Anjali Ghar...</p>	 <p>Nikesh Lokhan...</p>	 <p>dhanasankar...</p>	 <p>Kashmir Ekka</p>	 <p>Dr.Lakhapati P...</p>
 <p>mani dhrivar</p>	 <p>R. K. Shirsat</p>	 <p>BHAWNA CH...</p>	 <p>MALINI T</p>	 <p>Dr.R.Kavitha</p>	 <p>Ramani V</p>	 <p>Alwin Nongboi</p>	 <p>Prof. K. Verma</p>	 <p>Atul Yerpude</p>	 <p>BHASKAR TUP...</p>
 <p>Rajshree Gadp...</p>	 <p>Dr. Sanjay Bhai...</p>	 <p>Chitrakant Bel...</p>	 <p>Hannah Clara</p>	 <p>Vijay Anil Dai ...</p>	 <p>Ashish Kumar</p>	 <p>Lokeswar Pat...</p>	 <p>Gopinath Sam...</p>	 <p>Manoj Tiwari</p>	 <p>You</p>

UGC - HRDC, PRSU, Raipur, Chhattisgarh
Tentative Time Table: Online Refresher Course in Physics
Course Coordinator: Prof. Nameeta Brahma

	Session - I (10:30 to 12:00)	Session - II (12:15 to 13:45)	Session - III (14:15 to 15:45)	Session - IV (16:00 to 17:30)
First Week				
Day 01 16.08.2021	Registration, Inauguration & Induction	Lecture 1 Dr. S.K. Pandey (Ex-VC) Former Professor SoS in Physics and Astrophysics Pt. R. S. University, Raipur proskp@gmail.com Title: A physicist view of the universe	Lecture 2 Dr. Shimachala Panigrahi Professor Dept. of Physics NIT Raurkela spanigrahi@nitrrkl.ac.in Title: Quantum paradox to quantum reality-I	Lecture 3 Dr. Shimachala Panigrahi Professor Dept. of Physics NIT Raurkela spanigrahi@nitrrkl.ac.in Title: Quantum paradox to quantum reality-I
Day 02 17.08.2021		Lecture 4 Dr. Giri Babu Principal Scientist IICT, Hyderabad Title: Status of Excitonic Solar Cells	Lecture 5 Dr Humchand Professor & Head Department of Physics and Astronomical Sciences, Central University of Himachal Pradesh, Himachal Pradesh humchand@gmail.com Title: Extra galactic astronomy mainly consisting of observational cosmology	Lecture 6 Dr. Tanmay Badapanda Associate Professor Dept. of Physics CV Raman Global University, Bhubaneswar badapanda.tanmaya@gmail.com Title: Ferroelectricity and piezoelectricity in solids
Day 03 18.08.2021	Lecture 8 Dr. S.K. Omanwar Former Professor (HAG) & UGC-BSR Faculty Fellow Department of Physics Sant Gadge Baba Amravati University, Amravati omanwar@rediffmail.com Title: SPV Challenges in 21 st Century	Lecture 9 Dr. R.C. Agarwal Former Professor SoS in Physics and Astrophysics rakesh_c_agrawal@yahoo.co.in Title: Solid state Ionics conductor's exotic energy materials synthesis and material characterization studies	Lecture 10 Dr. Ajit Kulkarni Professor Dept. of Metallurgy & Materials Engineering IIT Bombay, Mumbai (M.S.) ajit2957@gmail.com Title: Piezoelectric Ceramics: Concerns, Solutions and Multifunctional Applications	Micro- teaching

	Session - I (10:30 to 12:00)	Session - II (12:15 to 13:45)	Session - III (14:15 to 15:45)	Session - IV (16:00 to 17:30)	
First Week					
Day 04 19.08.2021	Lecture 11 Prof. P. K. Bhatnagar Dept. of Electronic Science University of Delhi South Campus, New Delhi promod48@rediffmail.com Title: Organic electronics and its applications	T E A B R E A K	Lecture 12 Dr. M. Kar Associate Professor, IIT, Patna mano@iitp.ac.in manoitg@gmail.com Title: Physics of Magnetic Composites Derived from soft and hard Magnetic Materials AH~M plot	L U N C H B R E A K	Micro-teaching Micro-teaching
Day 05 20.08.2021	Lecture 13 Prof. R. K. Pandey Vice Chancellor, Amity University, Raipur prof.rkpandey@gmail.com Title: World of Solid Materials: Tailoring for Future	Lecture 14 Prof. U. P. Verma School of Physics, Jiwaji University, Gwalior, MP upv.udai@gmail.com Title: Numerical methods in physics	Lecture 15 Dr. H. S. Tiwari Professor, Department of Physics Guru Ghasidas Central University, Bilaspur tewari.hs@gmail.com Title: Introduction to Perovskite Oxides based Ceramics: Synthesis and applications	Lecture 16 Dr. R. Haranath Associate Professor Physics NIT Warangal, Telangana haranathnitw@gmail.com Title: Invisible fingerprint detection using afterglow phosphors for forensic applications	
Day 06 21.08.2021	Lecture 17 Dr. Ravi Sharma Asst. Prof. Dept. of Physics Devendra Nagar College Raipur rvsharma65@gmail.com Title: Nanomaterials: New Age Materials	Lecture 18 Dr. Manoj Mohapatra Radiochemistry Division BARC, Trombay, Mumbai manojm@barc.gov.in Title: A brief look at molecular spectroscopy: from luminescence to magnetic resonance	Lecture 19 Dr. Omprakash Thakur Scientist F Physics Lab, DRDO Timarpur, Delhi omprakasht@hotmail.com Title: Functional ceramics for strategic applications	Lecture 20 Prof. R. N. Baghel. Former Professor SoS in Phys and Astrophysics Pt. R. S. University, Raipur Title: Basics of Microprocessor	

	Session - I (10:30 to 12:00)	Session - II (12:15 to 13:45)	Session - III (14:15 to 15:45)	Session - IV (16:00 to 17:30)			
Second Week							
Day 07 23.08.2021	Lecture 21 Prof. B. N. Jagtap Professor IIT Mumbai bnjagatap@gmail.com Title: Teaching science and NEP 2020	T E A B R E A K	Lecture 22 Dr. K. V. R. Murthy Professor Faculty of Technology, M.S. University, Vadodara drmurthykvr@yahoo.com Title: Organic Light emitting Diodes	L U N C H B R E A K	Lecture 23 Prof. Balak Das Department of Physics Lucknow University, Up bdas226010@gmail.com Title: Powder X-ray Diffraction	T E A B R E A K	Seminar
Day 08 24.08.2021	Lecture 24 Dr. M. R. Shenoy Professor, Physics department, IIT Delhi mrshenoy@physics.iitd.ac.in Title: Optoelectronic devices		Lecture 25 Dr. S. K. Rout Professor Department of Physics Birla Institute of Technology, Mesra Ranchi-835 215, Jharkhand, skrout@bitmesra.ac.in Title: Role of materials research for social development		Seminar	Seminar	
Day 09 25.08.2021	Lecture 26 Prof. S. A Hashmi Dept. of Physics and Astrophysics, University of Delhi (North Campus) New Delhi sahashmi@physics.du.ac.in Title: Carbon Supercapacitors as Power Sources: Fundamentals and Recent Advances		Lecture 27 Dr. Dinakar Professor, Dept. of Physics, NIT Warangal dinakar@nitw.ac.in Title: Optical fibers and their applications		Lecture 28 Dr. Pankaj Shrivastava Professor & Head IIITM, Gwalior (M.P.) pankajgw143@gmail.com Title: Crystallography and Crystal structure	Project Presentation	

	Session - I (10:30 to 12:00)	Session - II (12:15 to 13:45)	Session - III (14:15 to 15:45)	Session - IV (16:00 to 17:30)
Second Week				
Day 10 26.08.2021	<p>Lecture 29</p> <p>Prof. Dilip Kumar Chowdhary Department of Physics, D.B. Science college, Gondia, M.H. dschoudhary@dbscience.org</p> <p>Title: 'Converting your PC into a Science Laboratory using expEYES Junior.'</p>	<p>Lecture 30</p> <p>Prof. Partha Roy Chowdhuri Professor, Physics department, IIT Kharagpur, W.B. Mobile no.: 9433522600</p> <p>Title: Fibre optic Components and Sensors: Designing Principle to Demonstration through Lab Experiments "</p>	<p>Lecture 31</p> <p>Dr Vipul Rastogi Professor, Physics department IIT Roorkee vipul.rastogi@ph.iitr.ac.in</p> <p>Title: Fundamentals of Photonics</p>	<p>Project Presentation</p>
Day 11 27.08.2021	<p>Lecture 32</p> <p>Dr. Saurabh Tripathi Assistant Professor Dept. of Physics IIT BHU stripathi.phy@itbhu.ac.in</p> <p>Title: Unambiguous evidence of three coexisting ferroelectric phases in a lead-free $\text{Li}^+\text{Na}_{1-x}\text{NbO}_3$ system</p>	<p>Lecture 33</p> <p>Prof. Dilip Kumar Chowdhary Department of Physics, D.B. Science college, Gondia, M.H. dschoudhary@dbscience.org</p> <p>Title: Development of Quantum Mechanics</p>	<p>Project Presentation</p>	<p>Project Presentation</p>
Day 12 28.08.2021	<p>Lecture 34</p> <p>Prof. Anshuman Dalvi BITS Pilani, Rajasthan anshumandalvi@gmail.com</p> <p>Title: High energy batteries and supercapacitors: recent trends in future</p>	<p>Lecture 35</p> <p>Dr. Y. M. Gupta Principal Rungha college of Engineering ymg@rungha.ac.in</p> <p>Title: Basics of Statistical Physics I</p>	<p>Lecture 36</p> <p>Dr. Y. M. Gupta Principal Rungha college of Engineering ymg@rungha.ac.in</p> <p>Title: Basics of Statistical Physics II</p>	<p>Ending Test (4.00pm to 4.45pm)</p> <p>&</p> <p>Valedictory</p>

Some abstracts of the talks are given below

A PHYSICIST'S VIEW OF THE UNIVERSE

S K Pandey

proskp@gmail.com

Summary

Universe, by definition, includes everything, literally, as there can't be anything outside its domain. From the early days of human civilization mankind has looked at the sky with awe and wonder, and has made sincere attempts to understand the celestial phenomenon. This comes under the discipline of science known as Astronomy, and is indeed the oldest of all natural sciences. There exist old records of observations with unaided eyes of nearby objects such the Moon, Planets, comets, the Sun, bright stars etc., but modern astronomy indeed began when Galileo pointed his 20x telescope towards the sky and made observations of the moon, planets and the Sun, and since then human race has not looked back in deciphering the mysteries of the beautiful universe we live in! This has been made possible by building bigger and bigger telescopes covering the entire electromagnetic spectrum, space telescopes on one hand and sophisticated backend instrumentations for recording the data on the other. Development of computer technology along with the software for the reduction and analysis of the huge amount of observational data collected from the telescopes has empowered the scientist for scientific exploration of the cosmos. In the process, we have known the vastness of the Universe. The human race as it exists on the planet Earth is perhaps the last in the sequence of evolutionary history of the Universe, but, undoubtedly, is the most intelligent form of life endowed with ability to observe, query and reason about the nature, and thus shares the responsibility of understanding the Universe in process of finding its place in the vastness of the Cosmos.

If one reads and critically analyze the historical developments in science one finds that ultimately all the developments in science is aimed at delivering the best for the human race, sooner or later.

Astronomy, is truly referred to as the mother of all sciences which in turn implies that the understanding of the structure and dynamical evolution of the Universe at large needs inputs from all branches of existing knowledge in general, and science including Physics, in particular. In other words, the Universe is viewed from the point of view of Physicists, Chemists, Biologists and like, in order finally to build an integrated or a holistic picture of the Universe. Here, **I plan to describe our understanding of the Universe from the point of view of a Physicist i.e. understanding cosmic events using known laws/theories/principles of Physics as are known on our planet Earth.**

SOLID STATE IONIC CONDUCTORS: EXOTIC ENERGY MATERIALS SYNTHESIS
AND MATERIAL CHARACTERISATION STUDIES

Rakesh Chandra Agrawal

Professor (Retired)

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Abstract

Solid State Ionic materials, referred to as ‘**Superionic Solids**’ / ‘**Fast Ion Conductors**’ / ‘**Solid Electrolytes**’, are exotic energy materials having tremendous technological relevance in the development of variety of electrical power sources. These systems are pure ion conductors, exhibiting room temperature conductivity close in the range that of liquid/aqueous electrolytes. Hence, they can be used as potential alternate to liquid / aqueous electrolytes to develop wide variety of All-Solid-State electrochemical devices viz. batteries, fuel cells, supercapacitors, ECDs etc. The field of Solid State Ionics, relatively a new branch in Materials Science Research, emerged in the year 1967 after the discovery of two groups of solids viz. MAg_4I_5 (where $\text{M} = \text{Rb}, \text{K}, \text{NH}_4$) and Na- β -alumina exhibiting exceptional high $\text{Ag}^+ / \text{Na}^+$ conduction ($\sim 10^{-1} \text{ Scm}^{-1}$) at room / moderately-high temperature respectively. Since then in the last nearly 5-decades, large number of fast ion conductors, involving variety of mobile ion species viz. $\text{H}^+, \text{Ag}^+, \text{Cu}^+, \text{Li}^+, \text{Na}^+, \text{K}^+, \text{Mg}^{2+}, \text{O}^{2-}, \text{F}^-$ etc, have been discovered and their applicability in above mentioned electrochemical devices have been explored. On the basis of microstructure / physical characteristics / synthesis routes, Solid State Ionic materials have been grouped into four broad category of electrolyte phases viz. crystalline/poly-crystalline, glassy/amorphous, composite and polymeric.

In the present talk, a generalized overview on different solid electrolyte phases as well as material designing will be made. Some common techniques widely used to characterize the materials / ion transport properties will be briefly discussed. The phase identification and material characterizations are usually done using XRD/ SEM/ FTIR/ DSC/DTA/TGA techniques, while the ion transport property is characterized in terms of ionic conductivity (σ), ionic mobility (μ), mobile ion concentration (n) and ionic transference number i.e. total (t_{ion}) and cation (t_+) transport numbers. These ionic parameters are evaluated experimentally employing different ac/dc techniques. The temperature dependent measurements on these ionic parameters are also done in order to understand the ion transport mechanism.

Topic: Ferroelectricity and piezoelectricity in solids

Dr. Tanmaya Badapanda
Associate Professor
Dept. of Physics
CV Raman College of Engineering, Bhubaneswar
badapanda.tanmaya@gmail.com

Ferroelectricity and piezoelectricity is the most fascinating properties of dielectric solids. Materials exhibiting ferroelectric properties must be either single crystals or polycrystalline solids composed of crystallites; they must also possess reversible spontaneous polarization. Piezoelectricity is the phenomenon of development of an electric charge on the surface of crystalline insulators in response to an applied mechanical stimulus. Piezoelectric and ferroelectric materials are widely used in many areas of technology and science. In the lecture, We shall discuss the various features of ferroelectrics and peizoelectrics, the mechanisms responsible for the appearance of these features, and ferroelectric materials and their applications. It will also highlight some experimental results related to result work.

Teaching Science and NEP2020

B.N. Jagatap

Department of Physics

Indian Institute of Technology, Powai, Mumbai 400076

Formerly, Distinguished Scientist and Director, Chemistry Group, BARC, Mumbai 400085

National Education Policy 2020 (NEP2020) makes a strong pitch for quality education, skill development, employability, entrepreneurship and socially relevant research. It further lays stress on developing critical thinking among students and achieving better teaching–learning outcomes. In order to realize these objectives, science teachers need to re-think of the current teaching practices. In this presentation, we discuss a general framework for teaching science subjects in class rooms. The talk will also cover some important issues which teachers must take into account in the online teaching mode.

Piezoelectric Ceramics: Concerns, Solutions and Multifunctional Applications

A.R. Kulkarni

Department of Metallurgical Engineering and Materials Science
Indian Institute of Technology-Bombay, Mumbai 400076

The macroscopic behavior of ferroic functional materials such as ferroelectrics that combine dielectric, pyroelectric and piezoelectric characteristics are discussed in Solid State Physics at graduate level. However, the applications in commercial domains as vibration energy harvester/micro-power generator (MPG), resonator/filter, actuators, transducers, FRAM, high-temperature multilayer capacitors in automotive and aerospace related industrial applications and as hydrophones for underwater signals are found in materials that are made in certain crystal structures. To date, PZT is one of the most widely studied and exploited piezoelectric material, and has found a permanent place in the field of Materials Science and Engineering. Most importantly it has an estimated market of tens of billions of dollars for both strategic and commercial applications. However, lead oxide, which is a major component in PZT, is highly toxic and its toxicity is further enhanced during processing at high temperature causing environmental pollution. For a safer environment and human life the solution is minimizing or eliminating lead appears to be only option. Consequently, there has been growing interest in developing alternative lead-free ferroelectric and piezoelectric materials. There had been many attempts by researchers in the past to develop alternative lead-free materials but none of them seems to satisfy the entire criterion required as alternatives to PZT's. Till recently, no suitable successors have been found. Candidates are typically too feeble in their piezoelectric effect and/or physical durability.

As materials scientists, we have identified the fundamental macroscopic aspects that predominantly allow design of materials, lead free, that would allow enhancing the piezoelectric properties and bring them closer to that of PZT for a few specific applications where the two materials can be exchanged with entailing any change in the design of the gadgets. In our group, at IIT Bombay, we have developed lead-free piezoceramics, in the $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ (NBT)-based MPB systems with enhanced electromechanical properties (k_p , d_{33} , g_{33} , Q_{33}) that are technologically important for advanced applications in actuator, energy harvesting, energy storage, refrigeration etc. Our work on bulk ceramics has been extended to thin film growth using PLD and fabrication of Magnetoelectric devices. We discuss two case studies, where these composites of Piezoelectric and magnetic materials without lead greatly improved properties. The challenges and opportunities to establish potential for commercial usage of NKBT, for both, bulk and thin film actuators and sensors will also be presented.

PHYSICS OF MAGNETIC COMPOSITES DERIVED FROM SOFT AND HARD MAGNETIC MATERIALS: $\Delta H \sim M$ plot

Manoranjan Kar

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ABSTRACT

Composite materials exhibit very interesting properties which have brought attention to researchers and technologists. Not only it exhibits very rich physics but also promise for technological applications. Magnetic composites are one of them to gain somewhat more attention in recent years due to their applications in recording media and refrigeration. Also, they show multiferroic property along with magnetoelectric property which is the hot research topic among the researchers. Therefore, researchers are focused intensively on the synthesis and characterization of different types of magnetic composite materials. The main advantage of magnetic composite materials lies in their tunability of the various magnetic parameters (magnetization, remanent polarization, coercivity field, and loop area) depending upon the applications. However, the variation in magnetic parameters of the composite greatly influences by the presence of magnetic interaction at the interface. Therefore, some of the important composites materials are described here to understand the origin of magnetic properties. The multiferroic materials includes $(1-x)\text{Bi}_{0.85}\text{La}_{0.15}\text{FeO}_3-x\text{CoFe}_2\text{O}_4$, $(1-x)\text{BiFe}_{0.80}\text{Ti}_{0.20}\text{O}_3-x\text{Co}_{0.5}\text{Ni}_{0.5}\text{Fe}_2\text{O}_4$ exhibit the enhanced magnetization which is correlated with the lattice strain induced surface interaction. Besides, Vegard's law has been used to estimate the theoretical value of magnetization for composites and compared with the experimental value.

Similarly, the nanocomposite of $(1-x)\text{Bi}_{0.85}\text{La}_{0.15}\text{FeO}_3-x\text{BaFe}_{12}\text{O}_{19}$ was prepared by the solid-state method and high energy ball milled method to observe the existence of magnetic interaction (exchange bias) and correlated with the magneto-crystalline anisotropy and magnetic width. In addition, the modification of magnetic ordering due to surface interaction in BHF-BaTiO₃ nanocomposite has been studied. The BHF is a well-known hard permanent ferrimagnet, which generally uses in the magnetic recording device industries. Another side, BTO (Barium Titanate oxide) is a very good ferroelectric material and but, exhibits weak ferromagnetism for the crystallite size of < 60 nm. Therefore, to BTO-BHF nanocomposite exhibits magnetic interaction by the surface modification at the interface which is directly influenced the overall magnetic parameters. Similarly, the antiferromagnetic (NiO) and ferrimagnetic (CFO) based composite shows the magnetic interaction due to the change in the magnetic anisotropy at the interface. Overall, nanocomposites have immense opportunities in the field of various applications by tuning the magnetic properties.

Mostly, the interaction between two magnetic materials in the magnetic composites can be understood by the forced curve. However, recently, our research group has been proposed a simple method by considering the $\Delta H \sim M$ plot.

The World of Solid Materials: Tailoring for Future
Rajendra Kumar Pandey
Amity University, Chhaattisgarh

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ABSTRACT

We live in a “Material World” has been used by all the seers in a philosophical sense. But as we look around and see the vast variety of materials available, we realize that most of them are new. In fact, more varieties of materials were made in the last one hundred years than the ones made in all the remaining centuries of our existence. New materials, or ways to make materials, are gaining greater use because of their improved properties. These properties result from the materials’ composition and structure at all scales, down to their atomic or molecular structure and arrangement.

This lecture will begin with the basics of solid-state physics and how changing structure, chemical composition and size affects their properties. Applications of novel materials in the new and futuristic areas in science technology shall also be discussed,



UGC - Human Resource Development Centre

Pt. Ravishankar Shukla university, Raipur



Organized

Online Refresher Course in Physical Education

September – 6 to 20, 2021

Report

Name of Course/Program:	Online Refresher Course in Physical Education
Name of Contact person from HRDC:	Dr. Brijendra Pandey
Date of Course/Program:	06.09.2021 to 20.09.2021
Name of Course Coordinator:	Prof. Reeta Venugopal, Professor School of Studies in Physical Education, Pt. Ravishankar Shukla University, Raipur
Theme of Course/Program:	“Technological development in the teaching and learning process, skills and knowledge for research new developments in field of Physical Education and Sports.”
Number of Participants:	31
State wise number of participants:	Chhattisgarh - 08, U.P.- 06, Madhya Pradesh – 03, Maharashtra – 05, Himanchal – 1, Uttarakhand – 1, Gujarat – 1, Haryana – 1, Tamil Nadu – 1, Kerala – 1, West Bengal – 3
Gender wise number of participants:	Male – 21, Female – 10
Number of Resource Persons	28
Name and Signature of Course Coordinator Prof. Reeta Venugopal SoS in Physical Education, Pt. Ravishankar Shukla University, Raipur (C.G.)	

Refresher Course in Physical Education

(06.09.2021 - 20.09.2021)

A Refresher Course on “Physical Education and Sports” was organized by Human Resource Development Centre, Pt. Ravishankar Shukla University Raipur, in collaboration with School of Studies in Physical Education, Pt. Ravishankar Shukla University, Raipur from 6th -18th , September 2021. The course was attended by thirty one registered participants from across the country. 30 outstation and 01 local participants attended the same. 28 resource persons delivered lectures.

Objective : To develop Understanding about new technological development in the teaching and learning process. To enhance skills and knowledge for research To learn about new developments in field of Physical Education and Sports.

Course Module: This course was designed to provide an opportunity to participants to get acquainted with recent developments in the field of Physical Education while emphasizing on fundamentals of the subject. Information and communication technology has brought revolutions in pedagogical practices. Teachers were empowered with access to latest developments, new & emerging trends, research and were able to improve pedagogy skills. At the heart, of the recent developments lies use of technology to increase student engagement by restructuring the learning process. Mental and physical benefits of physical activities was emphasized by incorporating technology into physical education classes. The course gave equal emphasis to changing scenarios in field of physical education methodological refinements and applied aspects of the subject. It also covered diverse areas of sports sciences. The group were regular faculties of

Universities/ Colleges that are included under section 2 (f) of the UGC act. The teachers of the colleges affiliated to the University for at least five years can participate. It was an online course where sessions were conducted on Google Meet, from 10:30 to 17:30 for total 12 days .

DAY 1

Session II (12.15-13.45)



1. Dr Swaroop Savanur, Mental Conditioning and Peak performance coach New Delhi was the expert. Dr Swaroop savanur made the participants acquainted with the topic "psychological factors influencing young athletes involvement in sports" by sharing the attractive and interesting PPT. Lecture one of the resource person included the following points :Psychological and mental status of athletes of different age groups. Sports participation at grassroot level. P.E teachers are not just teachers they are councillors of athletes. Importance of sports in nurturing young children. Mental ability of teenage children Logical thinking, spatial awareness decision making, executive functions. Optimal motivational profile of an athlete. Motivation extrinsic and intrinsic. Motivational climate Questions were asked by participants in the question answer session. It was a wonderful session by Dr. Swaroop Savanur .

Session III (14:15 to 15:45)



2. Dr. Yogesh Chander Asst Professor , Dept of Physical Education, Institute of Teachers Training & Research, BPS Mahila Mahavidyalaya Sonapat, Haryana, was the resource person he dealt with the topic "MOOCs for Blended Learning in Physical Education and Sports" he emphasized

that the 21st century demands channelization of demographic dividend, sustainable development, responsible production and utilization of critical thinking, self learning and technology based learning. Today's working demand digital competence i.e. one's capability to operate digital instruments and software including various technologies in daily use. He

further elaborated about the data facility of cloud computing, where practice of using internet via remote servers, information is stored, managed and thereafter data is processed.

Session IV (16.00 to 17.30)



3. Dr. Yash Paul Sharma Faculty , Central Institute of Educational Technology, NCERT, New Delhi discussed about MOOCs and the use disruptive technologies in Teaching Learning process As we are moving into the next generation of the media revolution, “immersive” technologies like Augmented Reality (AR), Virtual Reality (VR), and Mixed Reality (MR) are becoming the centre of discussion in educational technologies. Further he explained that National Policy of Education (NEP2020) also envisaged the use of MOOCs specially on SWAYAM

DAY 2

Session I (10.30-12.00)



4. Professor Balwant Singh Thakur, SOS in Mathematics, PRSU, Raipur was the resource person .In this session the speaker demonstrated how to make google forms. He discussed how this tool allows us to create forms, surveys and quizzes for the assessment of the students. The lecture

was all about new technology which is the need of today's era. The session ended with questions and answers of the participants. All participants learnt a lot from this session.

Session II (12.15-13.45)



5. Dr. Tarun Sachdeva, Sports Medicine Expert, Director of FitSol Sports Medicine Clinic New Delhi dealt with the topic Understanding Pain. He discussed the responsibility of Physical education teachers, to administer the physical sporting activities amongst the students of respective educational institutes. Apart from this it's also important for all to understand some basic roadblocks such as injuries. The first and foremost symptom of any impending or underlying injury is Pain. But Pain may have other multiple sources too. This lecture was helpful to improve understanding about pain and empowered to guide students more comprehensively about their injuries.

Session III (14:15 to 15:45)



6. Prof. Balwant Singh Thakur SoS in Mathematics, PRSU, Raipur Professor Balwant Singh Thakur, SoS in Mathematics, PRSU, Raipur was the resource person in the session the participants learned to make google form with the help of expert's inputs and it was a very practical and useful session wherein the participants learned the micro details of the Google form.

Session IV (16:00 to 17:30)



7. Dr. Yash Paul Sharma Faculty , Central Institute of Educational Technology, NCERT, New Delhi. “ ICT- Pedagogy – Immersive” was the topic of this session. He stressed that gradually, technology has been making its way to revolutionizing the methods of teaching and learning. Technology has made its way to the classroom, increasing the engaging and interactive elements; many students are benefitting from it, right from Audio, Video, Graphics and Simulations. Learners, in today’s context, are already familiar with various technologies, which helps in modernizing the classroom with computerized tools and apps that make sense in a classroom setting. Further he emphasizes that as we are moving into the next generation of the media revolution, “immersive” technologies like Augmented Reality (AR), Virtual Reality (VR), and Mixed Reality (MR) are becoming the centre of discussion in educational technologies. The lecture was very informative and helpful for all the participants. Participants enjoyed the virtual tour of Mahatma Gandhi Ashram, Wardha, Maharashtra, India.

Day 3

Session I (10.30-12.00)



8. Prof. C.D. Agashe, SOS in Physical Education, was the expert “PSYCHOLOGICAL COUNSELING FOR SPORTSPERSONS”. He explained, points to be kept in mind while counselling the players. He explained parts of counselling Performance zone, Anger management, Cognitive theory, Personality, Mental illness, REBT (Rational Emotive Behaviour Therapy) and ABC (Anxiety, Believe and Consequences) model .

Session II(12.15-13.45)



9. Dr. Tarun Sachdeva, Sports Medicine Expert, Director of FitSol Sports Medicine Clinic, New Delhi Topic of this session was “Sports Concussion assessment Test” the expert explained that a concussion is a traumatic brain injury that affects the brain function. Effects are usually temporary but can include headaches and problems with concentration, memory, balance and coordination. Concussions are usually caused by a blow to the head. It is very common in high body contacts sports like soccer, boxing etc. though its temporary but can cause detrimental damage if not assessed and acted upon immediately. In view of medical supervision not being available at the collegiate sports level it is important for the Physical education teachers to have knowledge about this simple test. This lecture addressed the understanding of the on field tool.

Session III (14:15 to 15:45)



10. Prof. C.D. Agashe, SOS in Physical Education, Pt. RSU, Raipur The topic covered by the expert in this session was “Mental health and hygiene” Dimensions of health were explained, which included self acceptance, self awareness ego satisfaction, philosophy of life spiritual and religious aspect and empathy.

Session IV (16:00 to 17:30)



11. Dr. Yogesh Chander, Asst. Professor, Dept of Physical Education, Institute of Teachers Training & Research, BPS Mahila Mahavidyalaya “**Re-imagining Indian Education**”

The expert explained that the expectations from 21st century teachers includes learner development; learning environments; content knowledge; application of content; assessment planning for instruction; instructional strategies; professional learning and ethical practice;

including leadership and collaboration. The presentation was designed while keeping in view with expected learning outcomes i.e learner understands the structure of education; learner know about the structure of teacher education;

learner know about the programmes recognized by NCTE 2014 & 2019; learner gets knowledge about the journey of Teacher Education especially after independence including NEP2020; and learner understands the issues and challenges in teacher education programme and their remedies. Teacher education refers to the policies and procedures designed to equip prospective teachers with the knowledge, attitude, behaviour and skills they require to perform their tasks effectively in class rooms, school and outside the four walls of the school. There are two broad classifications of teacher education including In-Service Teacher Education: NCERT, NIEPA, RIE, SCERT, UGC-HRDC etc DIETs, Block resource centre and clusters resource centre and second is Pre-Service Teacher Education: NCTE lays down standard, minimum qualification for teacher educators, course content, duration, and minimum qualifications for entering in course. These courses are run by colleges, stand alone institutions and universities. The teacher education in NEP 2020 has cardinal principles that focus on Access; Equity; Quality; Affordability; and Accountability.

Day 4

Session I (10.30-12.00)



12. Dr. Sandeep Tiwari, Principal, IGIPSS, B-Block, Vikaspuri, New Delhi In training it is very important to understand the components on the basis of which one plan the load, intensity. I weight training the concept of repetition maximum has to be understood which is usually stated 1RM or one -repetition maximum. To observe improvement in in performance establishing 1RM and tracking the same helps, it is very accurate method to judge effectiveness of training program. Various formulas to calculate 1RM were taught by the expert.

Session II (12.15-13.45)



13. Dr. Sandeep Tiwari, Principal, IGIPSS, B-Block, Vikaspuri, New Delhi Second session was a practical session where all the participants calculated 1RM on the basis of the different formulas. Training in sports is very scientific and for every sports person specific training program has to be developed, the hands on training was very useful for the participants.

Session III (14:15 to 15:45)



14. Dr. Neeta Nair Senior Sport Officer, Govt. Kamla Devi Rathi P.G. Mahila Mahavidyalaya, Rajnangaon, Chhattisgarh Seminar has become an advance method of teaching and instruction in higher education, it is a platform where participants interact among themselves on a theme. Participants presented seminars and the expert emphasized on using technology for the same.

Session IV (16:00 to 17:30)



15. Dr. Ritu Dubey, Sport Officer, Govt. Dr. Waman Wasudev Patankar Girls PG Colleg, Durg, Chhattisgarh. The expert assessed the seminar presented by the participants , the purpose of the seminar was to an environment for working together.

Day 5

Session I (10.30-12.00)

16. Prof. Anurodh Singh Sisodia, Director HRDC, LNIPE, Gwalior (MP)

The expert gave inputs about Eustress ,which is a positive form of stress leading to beneficial effect on mental emotional and physical health. It enhances creativity, thinking ability, greater orientation and motivation. He further explained that positive stress responsiveness to environment, improved interpersonal relationship, improved morale. It improves flexibility, endurance and relaxes muscles. During eustress feel good hormone ie endorphins are released which promotes overall wellbeing.

Session II (12.15-13.45)



17. Prof. Rajeev Choudhary, SoS in Physical Education, PRSU, Raipur Dr. Rajeev Choudhary, Professor in Physical Education, Pt. Ravishankar Shukla University delivered a lecture on Scholar's Scholarly Approach. He started his lecture with prologue, where he justified about the need of "Scholar's Scholarly Approach". In his lecture, he also discussed about the essentials of a good research paper as well as about the Curiosity of Scholars. He discussed in detail about Bibliometrics. He

explained about the concept of different indices I. e. h index, g index, i10 index. Also discussed about Journal Impact Factor, Citation Analysis, Citation Databases. He informed about , Web of Science, Scopus, Google Scholar, ORCID, Researcher ID, NCBI. In the last part of his lecture he discussed about means and methods by using that, we can publicize our publication.

Session III (14:15 to 15:45)



18. Prof. Sushma Ghildyal, Dept of Physical Education, BHU. The expert emphasized ,Women Health which refers to the branch of medicine that focuses on treatment and diagnosis of diseases and conditions that affect a women's physical and emotional well being. Women's wellness focuses on those aspects of well-being that pertain disproportionately, or solely, to women. Wellness is an active process of becoming aware of and making choices towards a healthy and fulfilling life. She discussed various problems of women during different stages of life cycle.

Session IV (16:00 to 17:30)



19. Dr. Yogesh Chander, Asst Professor, Dept of Physical Education, ITTR,BPS Mahila Mahavidyalaya., Sonapat, Haryana

Infusing Universal Design for Learning into Sports

The presentation aims to have learning outcomes i.e. understanding of dignity, individual autonomy and independence of persons; persuade non-discrimination; and ensure full and effective participation and

inclusive sports in society; acceptance of persons with disabilities as part of society in terms of equality of opportunity; accessibility; respect for the evolving capacities of children with disabilities and respect for the right of children with disabilities to preserve their identities. The universal design for learning is a framework to improve and optimize teaching and learning for all people based on scientific insights into how humans learn. It is a research-

based set of principles to guide the design of learning environments that are accessible and effective to all. In order to impact different type of learners UDL focuses on multiple means of representation, multiple means of action, expression and multiple means of engagement. Realization of RPWD Act 2016 also suggests that physical educators need to continue to be prepared for the inclusion of diverse learners. In order to differentiate instruction in physical education for all students, UDL affords multiple means of *Engagement* (using a range of psychomotor practices to heighten student motivation); *Representation* (presenting/instructing content in a variety of ways); *Action and expression* (varying the ways in which students are encouraged to respond and show their learning of skills and concepts). Inclusion is a concept that ensures equality; rights; participation; process; values; diversity and change. Adapted Physical Education can ensure barrier free participation of person with disabilities by adjusting and adapting physical activities. It involves physical and motor fitness, fundamental skills and patterns, skills in aquatics and dance, involve individual and group games to meet unique demands of individuals. It is an art and science of developing, implementing, and monitoring a carefully designed physical education instructional program to give the learner the skills necessary for a lifetime of rich leisure, recreation, and sport experiences to enhance physical fitness and wellness.

Day 6

Session I (10.30-12.00)



20. Dr. Chanan Goyal, Paediatric Physiotherapist, Faculty, Govt. Physiotherapy College, Raipur, Paralympic is a term derived from amalgamation of Greek preposition “para” (beside or alongside) and the word “Olympic”. Sport-

specific classification determines which athletes are eligible to compete in a sport and how athletes are grouped together for competition. There are ten eligible impairment types including eight physical, a visual and an intellectual. Physical impairments include impaired muscle power, impaired passive range of movement, leg length difference, limb deficiency, short stature, hypertonia, ataxia and athetosis. Events in Paralympics include para alpine skiing, para archery, para athletics, para badminton, boccia, para canoe, para cycling, para dance sport, equestrian, football 5 A side, goalball, para judo, para Nordic skiing, para ice hockey, para powerlifting, para rowing, shooting para sport, sitting volley ball, para snowboard, para swimming, para taekwondo, para triathlon, wheelchair basketball, wheelchair curling, wheelchair fencing, wheelchair rugby, wheelchair tennis. India bagged medals in shooting, athletics, badminton, table tennis and archery in Tokyo Paralympics 2020. Physical education teachers and physiotherapists have huge responsibility in identifying and training differently abled young talents who have the potential to win medals and bring pride to the nation by unleashing their untapped abilities.

Session II (12.15-13.45)



21. Dr. Usha Sujit Nair, Associate Professor, Lakshmi Bai National College of Physical Education, Kariavattom, Trivandrum.

Exercise is Medicine: Attaining health and wellness through physical activity.

The concept of using exercise as the medicine-the rise in non-communicable diseases, especially during a pandemic, and the risks of inactivity also will be

dealt with. briefing the components of wellness and ways of attaining it through the medium of physical activity.

Session III & Session IV (Seminar)



23. Prof. Pradeep Sharma, IGIPES, New Delhi

Seminar

One of the objectives of the course was to improve pedagogical skills and seminar is considered as one of the advance method of teaching, expert gave inputs regarding the skills during assessment.

Day 7

Session I (10.30-12.00)



24. Dr. Yogesh Chander, Asst. Professor, Dept of Physical Education, Institute of Teachers Training & Research, BPS Mahila Mahavidyalaya

Redressing the Balance in Sports."

The expert explained Gender equality is access of rights and an opportunity in sports unaffected by sexes. It includes demand of being human, especially for women who are oppressed in patriarchal social structure. It allows barrier free sport participation for both male and female. The literal meaning of gender equality in sports is equal access to all kind of resources. Women have low participation in overall world of sports. The reasons include poor financial position, household responsibilities, security concerns, transport access, insufficient sport facilities, etc. Historically, women were not allowed to witness sports events. Later on, with time access was given to women as spectators. Progressively the struggle by feminists

and favorable conditions emerged as a result of world war-II there originated a demand of women workforce and women sports. International Olympic Committee has taken so many measures to encourage women's participation at Olympic Games. It is pertinent to mention here that at the time of start of modern Olympic game in 1896 at Athens, there was no women participant. It was Paris, where first time 22 women entered in Olympic sports arena in athletes. Ms Anita L. DeFrantz was the first woman to be elected as IOC Vice-President in year 1997 and later on in year 2000 Women and Sport Awards was initiated by IOC. Setting up of women and Sports commission for policy

planning and gender equality was the other milestone in year 2004. Physical activities in form of games are one of the most popular acts of mankind in world that involve people from all ages and gender. The advocacy of women's rights and opportunities for women are full of blockages. There is a requirement to put in combined efforts from all the stakeholders. Gender equality in sports is possible through inclusion and sensitization of both the sexes. It can be achieved through education and by providing protected environments.

Session II (12.15-13.45)



25. Dr. Sandhya Tiwari, IGIPSS, B-Block, Vikaspuri, New Delhi **ppropriate Exercise Guidelines for the Expectant Mother**: Deals with the safety measures, mode of exercise, and intensity of exercise, benefits & risks associated with exercising during pregnancy.

Session III & IV (14.15-15.45) (16:00 to 17:30)

ICT/Micro Teaching



26. Prof. Alka Naik, Dept. of Physical Education, Rani Durgawati, University, Jabalpur, M.P.

Microteaching is an important component of teachers training program, which gives opportunity to participants to review their performance and improve their ability to improve teaching skill on the basis of feedback. The expert put in their valuable time and gave feed back to the participants

Day 8

Session I (10.30-12.00)



27. Mr. Satyapal Singh, Indian para-athlete coach, Dronacharya Award The expert who is para sports coach and is recipient of prestigious Draunachary Awardees explained about Paralympics, coaching Para athletes is huge challenge. He elaborated classification for Paralympic competition. Impairment in athletes lead to competitive disadvantages and the classification system leads to determination of athlete's success by skill, power, endurance, tactical ability and mental focus .He explained Paralympics movement gives opportunities to athletes with physical, vision and/or intellectual impairment, having one of the following impaired muscle power, impaired passive range of movement, vision impairment, intellectual impairment, limb deficiency, leg length difference, short stature, muscle tension uncoordinated movements etc. It was an eye-opening class for the participants.

Session II (12.15-13.45)



28. Dr. Tarun Sachdeva, Sports Medicine Expert, Director of FitSol Sports Medicine Clinic, New Delhi

Importance of post training Recovery. The expert provided insight in to need and importance of recovery after training or competition he explained recovery is more important than training itself because a player actually gains the benefits of training during recovery. This lecture will address, the importance of post training

recovery, different types of recovery and discussion on some advanced post training recovery methods.

Session III & IV (14.15-15.45)

ICT/Micro teaching, (Sr.no. 21-30)



29. Prof. Lalit Sharma, IGIPES, New Delhi

The micro teaching involves Introduction Skill, Skill of Probing question, Skill of explanation, Skill of Stimulus Variation, Skill of achieving closure Content knowledge Quality of instruction, Teaching climate Professional behaviour. The participants were given inputs and the expert evaluated with enquiries and suggestions.

Day 9

Session I (10.30-12.00)

Project Presentation/Panel Discussion (Sr.no. 1-10)



30. Dr. Brijendra Pandey, Assistant Professor, HRDC, Pt. RSU, Raipur.

Project Presentation

It was also a learning experience for the participants who were divided into groups to do a project and present the same for evaluation. The expert evaluated the project and gave additional tips for project presentations.

Session II (12.15-13.45)



31. Dr. Tarun Sachdeva, Sports Medicine Expert, Director of Fit Sol Sports Medicine Clinic, New Delhi Strategies of Return to Sports after a COVID19 infection. Role of a Physical education teacher/ Coach. It was a very relevant and burning topic about which every one wanted to have insight . The

topic was well covered by the expert elucidated COVID19 has an unprecedented impact on all verticals and facets of our society and the Sports fraternity is no different. Covid19 is a possible multisystemic disorder but primarily affects the Respiratory System. Though its matter of further research but this disease possibly causes a number of potential long term effects. Cardiopulmonary endurance being the most valuable asset of most athletes who suffer from this illness suffer from a substantial set back. The agenda of this lecture was to share the strategy we used to facilitate our athletes to

return to their respective sports while emphasizing on the role of a physical education teacher in it.

Session III (14.15-15.45)



32. Ms. Chetansi, Nutrition Expert, FitSol Sports Medicine Clinic, New Delhi

Hydration Parameters For Athletes There are no exact rules for how much water to drink while exercising, because every body is different. We need to consider factors including the sweat rate, the heat and humidity in the given environment, and how long and hard the person is exercising. In this lecture, we will be

discussing the importance of hydration parameters for athletes, knowing what these parameters are and how they affect their performance.

Day 10

Session I (10.30-12.00)



33. Prof. Rajeev Choudhary, SoS in Physical Education, PRSU, Raipur.

Statistical analysis was made easy for the participants by the expert, the participants could be able to use the software for analysis of data.

Session II (12.15-13.45)



34. Prof. Kavita Thakur, SoS in Electronics, PRSU, Raipur

Participants presented the project prepared by them in group. The expert assessed the projects with providing inputs to the participants.

Session III (14.15-15.45)



35. Ms Chetansi Sharma, Medical Nutrition Scientist, Fit Sol Clinic, New Delhi

Understanding Sports Nutrition Specific to Pre, During and Post Physical Training The ideal diet for an athlete is not very different from the diet recommended for any healthy

person. The amount of each food group they need will depend on: -The type of sport -The amount of training -The amount of time spent during the activity
A good diet is as important as good physical training for enhancing the performance of an athlete. Under this topic, we will be covering the specifics of the diet of an athlete during the training days.

Session IV (16.00-17.30) MCQ Test

Day 11

Session I (10.30-12.00)



36. Prof. Preeti K Suresh, Institute of Pharmacy, Pt. RSU, Raipur, Each database and/or tool employs its own measurement systems, indices, statistical parameters, data and authority files. Another, major constraint is due to the

difficulty to use these tools to compare across disciplines with dissimilar research and publication practices. With the evolution of scholarly communication, the limitations of existing metrics and tools are coming to fore. Good citation metrics indicates significant impact on the field however, the reverse is not necessarily true. Weak citation metrics of an academic, may be caused not only by a poor impact on the field, but may also be owing to working in a specific and/or small field, and therefore generating fewer total citations. Publishing in languages other than English and mainly in books may also limit the citation field. Metrics and evaluation tools to measure a journal's impact are also available. Author identifiers are the unique identifiers that allow authors to distinguish themselves from other researchers and to unambiguously associate themselves with their work. In the last few years, academic researchers have also moved workflows and discussions to online spaces like Mendeley, blogs, and other social media platforms. On these new

platforms, the activities like reading, saving, discussing, and recommending have acquired visibility and can be traced. These traces can inform new metrics of scholarly influence and impact, the altmetrics, which is evolving as another tool to measure academic performance and impact.

Session II (12.15-13.45)



37. Prof. Sandhya Tiwari, IGIPSS, B-Block, Vikaspuri, New Delhi

Administrative Guidelines for Health Related Fitness Assessment & Exercise Participation: Deals with all the

aspects that needs to considered for a qualitative & authentic implementation of an assessment program in health related

fitness and exercise participation. Shall cover the significance of pretesting, during and post testing situations, informed consent process, PAR Q, Pre

assessment health screening, stop test indicators and tips for a successful implementation of a fitness assessment program at the school, university and community level.

Session III (14.15-15.45)



38. Dr. Karan Jeet Singh, Doctor Indian Boxing team

The expert raised the concern of athletes who take part in sports which is related to weight categories, wherein the athletes try to cut weight in a very short duration of time, to participate in lower weight category, which is very common in boxing. He explained the health hazards of dehydration, like disrupted thermoregulation, transport of nutrients and oxygen, decreased blood supply to brain leading concussion injury. It also

affects other vital organs like kidney and lead to high blood pressure and kidney failure. He suggested ways and means to avoid dehydration and to deal with if dehydration has occurred.

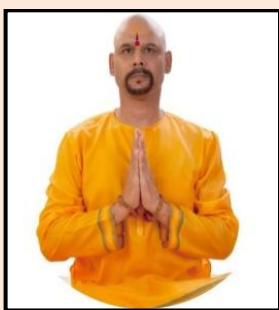
Session IV (16.00-17.30)



39. Dr. Avinash Ingle, Additional Professor, Department of Physiology AIIMS, Raipur, Topic for this session was "Exercise Monitoring" the speaker enlightened what exercise is, different types of exercise like static, dynamic, aerobic and anaerobic. He further explained oxygen intake and transportation. He spoke about exercise grading, and requirement of monitoring exercise, VO_2 Max, MET, blood flow during exercise, maximum cardiac output, heart rate, ECG monitoring and calculation maximum heart rate.

Day 12

Session I (10.30-12.00)



40. Mr. Sunil Singh, Yog Guru, New Delhi
"The role of yoga during Covid-19" and he enumerated the various benefits of yoga especially during the covid-19 pandemic . He told that mortality rate was quite low in our country as compared to the other countries on account of yoga. He also told some yogic exercises and processes which are very helpful to stay healthy and check the various modern times life style diseases and illness. He specifically mention that persons with deficiency of vitamin C and D are more prone to corona viral infection. He suggested that sun bathing 15 to 20 minutes for a year would be suffice to make up for the deficiency of

vitamin D. He suggested various recipes and yogic steps which are very useful to strengthen our immune system and stay healthy.

Session II (12.15-13.45)



41. Dr. Preeti Singh, Clinical Psychiatry, Psychiatry Dept. Pt. Jawahar Lal Nehru Memorial Medical College, Raipur (C.G.).

Psychological Perspective of Physical Activity: Problems and Solutions

The expert discussed the body mind interaction is well studied as regular physical activities help the person to reduce their anxiety, depression and stress with increasing their confidence and concentration level. There are many obstacles to follow regular physical activity routine such as lack of motivation, daily life stressors, physical illness, sudden changes in daily schedule etc. Teaching physical education to students also involves similar

kind of issues in addition personal problems such as failure in game, conflict or fight with other playmates, dominating attitude, anxiety and secondary gains. The present session aims to discuss different psychological techniques to manage these issues such as graded task assignment, prompting, problem solving, breathing exercise, positive reinforcement, catharsis, role-reversal, conflict resolution technique and distraction.

Session III (14.15-15.45) - Discussion and conclusion

Session IV (16.00-17.30) - Valedictory

REC

4:47 PM | Online Refresher Course in Physical Education

REC

4:27 PM | Online Refresher Course in Physical Education

Organizing Team



Prof. K. L. Verma
Vice Chancellor
Pt. RSU, Raipur (C.G.),
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Dr. Shailendra Saraf
Director
HRDC, Pt. RSU, Raipur
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Prof. Reeta Venugopal
SoS in Physical Education,
Pt. Ravishankar Shukla
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UGC - HRDC, PRSU, Raipur

Time Table: Refresher Course on Physical Education

(06/09/2021 to 18/09/2021)

	Session -I (10:30 to 12:00)		Session -II (12:15 to 13:45)		Session -III (14:15 to 15:45)		Session -IV (16:00 to 17:30)
First Week							
Day 01 (06/09/21) Monday	Registration, Inauguration & Induction	T E A B R E A K	Lecture 1 Dr. Swaroop Savanur Mental Conditioning and Peak performance coach New Delhi drswaroopsavanur@gmail.com	L U N C H B R E A K	Lecture 2 Dr. Yogesh Chander Asst. Professor Dept of Physical Education, Institute of Teachers Training & Research, BPS	T E A B R E A K	Lecture 3 Dr. Yash Paul Sharma Faculty 218, Central Institute of Educational Technology (NCERT) New Delhi yashraina007@gmail.com 9911078294
Day 02 (07/09/21) Tuesday	Lecture 4 Prof. Balwant Singh Thakur SoS in Mathematics, PRSU, Raipur balwantst@gmail.com		Lecture 5 Dr. Tarun Sachdeva, Sports Medicine Expert drtarunsachdeva@gmail.com l.com 9650000719		Lecture 6 Prof. Balwant Singh Thakur SoS in Mathematics, PRSU, Raipur balwantst@gmail.com		Lecture 7 Dr. Yash Paul Sharma Faculty 218, Central Institute of Educational Technology (NCERT) New Delhi 9911078294
Day 03 (08/09/21) Wed.	Lecture 8 Prof. CD Agashe SOS in Physical Education, Pt.RSU, Raipur cdagash@yahoo.com		Lecture 9 Dr. Tarun Sachdeva, Sports Medicine Expert drtarunsachdeva@gmail.com l.com 9650000719		Lecture 10 Prof. C.D. Agashe SOS in Physical Education, Pt.RSU, Raipur cdagash@yahoo.com		Lecture 11 Dr. Yogesh Chander Asst. Professor Dept of Physical Education, Institute of Teachers Training & Research, BPS Mahila Mahavidyalaya, Sonapat, Haryana yogesh@bpswomenuniversity.ac.in
Day 04 (09/9/21) Thus.	Lecture 12 Dr. Sandeep Tiwari, Principal IGIPSS, B-Block, Vikaspuri New Delhi sandeeptiwari1964@yahoo.co.in 9868846327		Lecture 13 Dr. Sandeep Tiwari, Principal IGIPSS, B-Block, Vikaspuri New Delhi sandeeptiwari1964@yahoo.co.in		Seminar (Sr.no. 1-10) Dr. Neeta Nair Senior Sport Officer Govt. Kamla Devi Rathi PG. MahilaMahavidyalaya, Rajnangaon, Chhattisgarh neetanair21@gmail.com 9424285637		Seminar (Sr.no. 11-20) Dr. Ritu Dubey Sport Officer, Govt. Dr.WamanWasudevPatank arGirls PG Colleg, Durg, Chhattisgarh ritudubey@gmail.com 9826810547

Day 05 (10/09/21) Friday	Lecture 14 Prof. Anurodh Singh Sisodia Director HRDC LNIPE, Gwalior (MP) dr.anurodhsisodia@gmail.com 9425114712	Lecture 15 Prof. Rajeev Choudhary SoS in Physical Education, PRSU, Raipur chaudharirajee@gmail.com 9616557777	Lecture 16 Prof. Sushma Ghildyal Dept of Physical Education, BHU. sushmaghildyal@yahoo.com 9415619059	Lecture 17 Dr. Yogesh Chander Asst Professor Dept of Physical Education, ITTR, BPS MahilaMahavidyalaya. Sonapat, Haryana yogesh@bpswomenuniversity.ac.in
Day 06 (11/09/21) Saturday	Lecture 18 Dr. Chanan Goyal, Pediatric Physiotherapist, Faculty, Govt. Physiotherapy College, Raipur chanangupta@gmail.com 9893000973	Lecture 19 Dr. Usha Sujit Nair Associate Professor, Lakshmbai National College of Physical Education, Kariavattom, Trivandrum. ushasujit@yahoo.com 9745827790	Seminar (Sr. no. 21-30) Prof. Pradeep Sharma IGIPSS, New Delhi pardeepjonti@yahoo.com pardeep.kumar@igipess.du.ac.in 9958998636	Seminar (Sr. no. 31-40) Prof. Pradeep Sharma IGIPSS, New Delhi pardeepjonti@yahoo.com pardeep.kumar@igipess.du.ac.in profalkanail@gmail.com 9958998636
Second Week				
	Session -I (10:30 to 12:00)	Session -II (12:15 to 13:45)	Session -III (14:15 to 15:45)	Session -IV (16:00 to 17:30)
Day 07 (13/09/21) Monday	Lecture20 Dr. Yogesh Chander Asst Professor Dept of Physical Education, Institute of Teachers Training & Research, BPS MahilaMahavidyalaya. Sonapat, Haryana yogesh@bpswomenuniversity.ac.in 9416768558	Lecture 21 Dr. Sandhya Tiwari IGIPSS, B-Block, Vikasपुरi New Delhi tiwarisandhya22@yahoo.in 8368387925	ICT/Micro teaching (Sr.no. 1-10) Prof. Alka Naik RDVV,Jabalpur, (M.P.) profalkanail@gmail.com 9827532051	ICT/Micro teaching (Sr.no.11-20) Prof. Alka Naik RDVV,Jabalpur (M.P.) profalkanail@gmail.com 9827532051
Day 08 (14/09/21) Tuesday	Lecture 22 Mr. Satyapal Singh Indian para-athlete coach Dronacharya Award satyapalsingh@andc.du.ac.in	Lecture 23 Dr. Tarun Sachdeva, Sports Medicine Expert drtarunsachdeva@gmail.com 9650000719	ICT/Micro teaching (Sr.no. 21-30) Prof. Lalit Sharma IGIPSS, New Delhi lalit.sharma@igipess.du.ac.in 9625670792	ICT/Micro teaching (Sr.no. 31-40) Prof. Lalit Sharma IGIPSS, New Delhi lalit.sharma@igipess.du.ac.in 9625670792

Day 09 (15/09/21) Wed.	Project Presentation/ Dr. Brijendra Pandey Panel Discussion (Sr.no. 1-10) Assistant Professor, HRDC, Pt. RSU, Raipur	Lecture 24 Dr. Tarun Sachdeva, Sports Medicine Expert drtarunsachdeva@gmail.com 9650000719	Lecture 25 Ms Chetansi Sharma Medical Nutrition Scientist sharma98c@gmail.com 9999454200	Project Presentation/ Prof. Thingnam Nandala Singh Panel Discussion (Sr.no. 11-20) Department of Physical Education, Punjab Chandigarh
Day 10 (16/09/21) Thus	Lecture 26 Prof. Rajeev Choudhary SoS in Physical Education, PRSU, Raipur chaudharyrajee@gmail.com 9616557777	Project Presentation/ Prof. Kavita Thakur Panel Discussion (Sr.no. 31-40) SoS in Electronics, PRSU, Raipur Kavitathakur67@gmail.com	Lecture 27 Ms Chetansi Sharma Medical Nutrition Scientist sharma98c@gmail.com 9999454200	MCQ Ending Test
Day 11 (17/09/21) Friday	Lecture 28 Prof. Preeti K Suresh Institute of Pharmacy, Pt. RSU, Raipur suresh.preeti@gmail.com 9827938427	Lecture 29 Dr. Sandhya Tiwari IGIPSS, B-Block, Vikaspuri New Delhi tiwarisandhya22@yahoo.in 8368387925	Lecture 30 Dr. Karan Jeetsingh Doctor Indian Boxing team karanchib13@gmail.com 9418477863	Lecture 31 Dr. Avinash Ingle Additional Professor, Department of Physiology AIIMS, Raipur 7999275492
Day 12 (18/09/21) Saturday	Lecture 32 Mr. Sunil Singh Yog Guru New Delhi yogagurusuneelsingh@gmail.com 9811520891	Lecture 33 Dr. Preeti Singh Clinical Psychiatry, Psychiatry Dept. Pt.Jawahar Lal Nehru Memorial Medical College, Raipur (C.G.). Preeti.c.psychologist@gmail.com 9893831527	Valedictory & Concluding Session	Valedictory & Concluding Session

Refresher Course – Physical Education

(06.09.2021 to 18.09.2021)

Participants List

Course Coordinator - Prof. Reeta Venugopal

Sr. No.	Name of Participant	Mobil No.	email	College	Name of the affiliating University
01.	Dr. Sandeep Sunny	9747097097	sandeep@shcollege.ac.in	Sacred Heart College, Thevara, Kochi, Kerala	Mahatma Gandhi University, Kottayam, Kerala
02.	Dr. Biswajit Garai	9475671808	biswajitgarai1@gmail.com	Mugberia Gangadhar Mahavidyalaya, Medinipur, West Bengal	Vidyasagar University, Kolkata, West Bengal
03.	Awam Barat Singh Diwan	9826847243	diwanabs.18@gmail.com	Office of Dean Students Welfare, Dau Shri Vasudev Chandrakar Kamdhenu Vishwavidyalaya, Durg, (C.G.)	Dau Shri Vasudev Chandrakar Kamdhenu Vishwavidyalaya, Durg, (C.G.)
04.	Dr. Sanjay Kumar	9816400535	sanjaymankotia23@gmail.com	Central Sanskrit University, Ved Vyas Campus, Balahar, Himachal Pradesh	Central Sanskrit University, New Delhi
05.	Raksha Yadav	7694088774	rakshayadav.ind@gmail.com	Government College, Sailana, Ratlam, (M.P.)	Vikram University, Ujjain, (M.P.)
06.	Dr. Pravin Gopalrao Patil	9890903883	pravringopalpatil@gmail.com	Renuka College, Near Bankoo India, Besa, Nagpur, (M.S.)	Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, (M.S.)
07.	Dr. Milind Bhandeo	9691618905	mbhandeo@gmail.com	Vipra, Arts, Commerce and Physical Education, College, Raipur, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
08.	Dr. Rinku Tiwari	9827401411	rinkutiwari31@gmail.com	Gurukul Mahila Mahavidyalaya, Raipur, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
09.	Dr. S. Kalidasan	9944046268	drkalidasan.zhc@gmail.com	Dr. Zakir Husain College, Ilayangudi, Sivagangai Dist., (T.N.)	Alagappa University, Tamilnadu
10.	Dr. Uttam Damu Anap	9921234130	uttamanap2012@gmail.com	Women's College of Home Science & BCA, Loni, Rahata Dist., Ahmednagar (M.S.)	Savitribai Phule Pune University, Pune, (M.S.)
11.	Dr. Kumudlata Singh	8707533598	kumud206@gmail.com	D.G.P.G. College, Kanpur, (U.P.)	Chhatrapati Shahu Ji Maharaj University, Kanpur, (U.P.)
12.	Dr. Subhabrata Kar	8972245459	skarrana@gmail.com	Union Christian Training College, Berhampore, (W.B.)	University of Kalyani, (W.B.)
13.	Dr. Shabir Kumar Anant	9827405789	shabiranant@gmail.com	College of Veterinary Sci & A.H. Dau Shri Vasudev Chandrakar Kamdhenu Vishwavidyalaya, Durg, (C.G.)	Dau Shri Vasudev Chandrakar Kamdhenu University, Chhattisgarh
14.	Dr. Sudhir Gajanan Sahare	9860930061	Sudhir.sahare07@gmail.com	Late Nirdhan Patil Waghaye Art's, Commerce and Science College, Gadegaon, Bhandara, (M.S.)	Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, (M.S.)
15.	Ramakant Tripathi	8083405732	ramakanttce@gmail.com	Eklavya University, Damoh, (M.P.)	Eklavya University, Damoh, (M.P.)
16.	Dr. Arun Kumar Nayak	9098167330	arunnayak2008@gmail.com	RMD College of Agriculture & Research Station, Ajirma, Ambikapur, (C.G.)	Indira Gandhi Krishi Vishwavidyalaya, Raipur, (C.G.)

Sr. No.	Name of Participant	Mobil No.	email	College	Name of the affiliating University
17.	Dr. Gautam Kumar Choudhary	8800708007	gautam07chaudhary@gmail.com	Shri Raghunath Kirti Campus, Devaprayag, Uttarakhand	Central Sanskrit University, New Delhi
18.	Dr. Sukhbir Singh	9991091900	sukhbirkhanda@gmail.com	All India Jat Heroes Memorial College, Rohtak, Haryana	Maharshi Dayanand University, Rohtak, Haryana
19.	Prof. Jugal Kishore	8076676382	Universalbatic@gmail.com	Veerangna Awantibai Govt. Degree College, Atrauli, Aligarh, (U.P.)	Dr. B. R. Ambedkar University, Agra, (U. P.)
20.	Shilpa Sharma	8120955781	shilpassd84@gmail.com	Government College, Saikheda-Dist., Narsinghpur, (M.P.)	Rani Durgavati Vishwavidyalaya, Jabalpur, (M.P.)
21.	Dr. Deepti Chandrasheel Thokal	7757919524	deeptithokal7@gmail.com	Dr. Vithalrao Vikhe Patil Foundation's College of Physiotherapy, Ahmednagar, (M.S.)	Maharashtra University of Health Sciences, Nashik,(M.S.)
22.	Prof. Shyam B. Korde	9922119970	siya2008shyam@gmail.com	Mahatma Jyotiba Phule College, Ashti, Dist-Gadchiroli, (M.S.)	Gondwana University, Gadchiroli, (M.S.)
23.	Manoj Kumar Murmu	9932263491	manoj.murmu77@gmail.com	Post Graduate Govt. Institute for Physical Education, KolKata, West Bengal	West Bengal State University, KolKata, West Bengal
24.	Dr. Rupam Saxena	6396700918	rupammzn@gmail.com	Bundelkhand University, Jhansi, (U.P.)	Bundelkhand University, Jhansi, (U.P.)
25.	Urvashiben Thakorbbhai Patel	8469544002	chirag.ushi195@gmail.com	Shree Ramkrishna Institute of Computer Education and Applied Sciences, Surat, Gujrat	Veer Narmad South Gujarat University, Surat, Gujarat
26.	Shraddha Shree Yadav	9455486030	shra828@gmail.com	Gindo Devi Mahila Mahavidyalaya, Budaun, (U.P.)	Mahatma Jyotiba Phule Rohilkhand University, Bareilly, (U.P.)
27.	Kiran Damle	9565260690	damlesept1980@gmail.com	Banaras Hindu University, Varanasi, (U.P.)	Banaras Hindu University, Varanasi, (U.P.)
28.	Dr. Anil Kumar Mishra	7905567552	dr.anilau@gmail.com	Dr. Rammanohar Lohia Avadh University, Ayodhya, (U.P.)	Dr. Rammanohar Lohia Avadh University, Ayodhya, (U.P.)
29.	Smt. Rajkumari Markam	9691055822	rk_markam@yahoo.com	Bharat Ratna Late Shree Atal Bihari Vajpayee Memorial Medical College, Rajnandgaon, (C.G.)	Chhattisgarh Ayush and Health Sciences University, Raipur, (C.G.)
30.	Human Ram Yadu	9407608849	humanryadu@gmail.com	Govt. Medical College, Ambikapur, (C.G.)	Chhattisgarh Ayush and Health Sciences University, Raipur, (C.G.)
31.	Dr.Pramod Kumar Tiwari	9826208979	pramodtwr23@gmail.com	Seth R.C.S. Arts and Commerce College, Durg, (C.G.)	Hemchand Yadav University, Durg, (C.G.)

Refresher Course – Physical Education

(06.09.2021 to 18.09.2021)

Participants List

Course Coordinator - Prof. Reeta Venugopal

Chairperson and Reporter List

Date	Chairperson	Reporter	Chairperson	Reporter
	1 st Half		2 nd Half	
06.09.2021	Dr. Sandeep Sunny	Raksha Yadav	Dr. Kumudlata Singh	Dr. Gautam Kumar Choudhary
07.09.2021	Dr. Biswajit Garai	Dr. Pravin Gopalrao Patil	Dr. Subhabrata Kar	Dr. Sukhbir Singh
08.09.2021	Sarita Choubey	Dr. Milind Bhandeo	Dr. Shabir Kumar Anant	Prof. Jugal Kishore
09.09.2021	Awam Barat Singh Diwan	Dr. Rinku Tiwari	Dr. Sudhir Gajanan Sahare	Shilpa Sharma
10.09.2021	Dr. Sanjay Kumar	Dr. S. Kalidasan	Ramakant Tripathi	Dr. Deepti Chandrasheel Thokal
11.09.2021	Dr. Neelam Shukla	Dr. Uttam Damu Anap	Dr. Arun Kumar Nayak	Arun Kumar Pandey
12.09.2021	Sunday			
13.09.2021	Dr. Narendra Kumar Sharma	Urvashiben Thakorbbhai Patel	Dr. Rinku Tiwari	Dr. Sudhir Gajanan Sahare
14.09.2021	Prof. Shyam B. Korde	Dr. Sandeep Sunny	Dr. S. Kalidasan	Kiran Damle
15.09.2021	Dr. Vidhya Chouhan	Dr. Biswajit Garai	Dr. Uttam Damu Anap	Dr. Arun Kumar Nayak
16.09.2021	Sanjay Raghuwanshi	Shraddha Shree Yadav	Raksha Yadav	Dr. Kumudlata Singh
17.09.2021	Manoj Kumar Murmu	Awam Barat Singh Diwan	Dr. Pravin Gopalrao Patil	Dr. Subhabrata Kar
18.09.2021	Dr. Rupam Saxena	Dr. Sanjay Kumar	Dr. Milind Bhandeo	Dr. Shabir Kumar Anant

States wise Participants



- ▣ Chhattisgarh - 8
- ▣ U.P. - 6
- ▣ Madhya Pradesh - 3
- ▣ Maharashtra - 5
- ▣ Himanchal - 1
- ▣ Uttarakhand - 1
- ▣ Gujarat - 1
- ▣ Haryana - 1
- ▣ Tamil Nadu - 1
- ▣ Kerala - 1
- ▣ West Bengal - 3

Assessment Criterion and Marking:

Multiple-choice objective tests:	30
Seminars / participant presentation:	15
Project / survey / others:	20
Micro-teaching / participation:	10
Holistic response:	25
Total:	100

Grading pattern (based on Marks)

A+	: 85 percent and above
A	: 70 percent to less than or equal to 84 percent
B	: 60 percent to less than or equal to 69 percent
C	: 50 percent to less than or equal to 59 percent
F	: Below 49 percent

Those teacher participants who score F grade are required to repeat the program after a gap of one year without financial commitment to UGC-HRDC.

Online Delivery Platform: GOOGLE MEET



UGC-Human Resource Development Centre
Pt. Ravishankar Shukla University, Raipur



Organized

Online Refresher Course in Home Science

September 22 to October 06, 2021

Report

Name of Course/Program:	Online Refresher Course in Home Science
Name of Contact person from HRDC:	Dr. Arvind Agrawal
Date of Course/Program:	22.09.2021 to 06.10.2021
Name of Course Coordinator:	Dr. Abhaya. R. Joglekar Dept. of Home Science Govt. D.B. Girls' P.G. College, Kali Badi, Raipur, C.G.492001
Theme of Course/Program:	"Home Science Towards Sustainable Development"
Number of Participants:	39
State wise number of participants:	04 Bihar, 03 Chhattisgarh, 03 West Bangle, 09 Maharashtra, 05 Karnataka, 11 Madhya Pradesh, 02 Uttar Pradesh, 01 Odisha , 01 Tamil Nadu
No. of Resource Persons:	37
Name and Signature of Course Coordinator	
Dr. Abhaya. R. Joglekar Dept. of Home Science Govt. D.B. Girls' P.G. College, Kali Badi, Raipur	

ONLINE REFRESHER COURSE IN HOME SCIENCE

(22.09.2021-06.10.2021)

Human resource development centre (HRDC), Pt. Ravishankar Shukla university Raipur has organized two weeks Refresher course in Home Science held during 22.09.2021 to 06.10.2021. On the very first day during the inaugural session the honourable Vice-chancellor Prof. K L Verma in welcome address gave best wishes for organizing this course. Director, HRDC Prof. Shailendra Saraf welcomed the honourable Vice chancellor and the participants from various states of the country and wished them for their best performance during the course. The coordinator of the course **Dr. Abhaya. R. Joglekar** Dept. of Home Science Govt. D.B. Girls' P.G. College, Kali Badi, Raipur, C.G., introduced the session with the objectives and theme i.e. "Home Science Towards Sustainable Development". She also gave a brief on the various topics to be covered and the resource persons who will join and train the participants. The assistant professors from various central and state universities from all the corners of the country were participated in this course. Most of the participants were from Bihar, Chhattisgarh, West Bangle, Maharashtra, Karnataka, Madhya Pradesh, Uttar Pradesh, Odisha, and Tamil Nadu. During this two-week refresher course 36 lectures were delivered by 34 subject experts of different fields. Experts from various Places like Mumbai, Delhi, Ludhiana(Punjab), Pune, Nagpur, Sagar, Bhopal, Akola, Jabalpur, East Champaran, Bilaspur, Coimbatore, Kolkatta, Berhampur etc. central and state universities as well as two Vice-chancellors were invited to train the college and university teachers. All the experts discussed **Home Science Towards Sustainable Development**. All the participants were evaluated on their performance in various parameters like micro-teaching, Seminar, project, ending test and holistic response. Dr. Nanda Gurwara, Prof. Aditi Poddar and Prof. M. Mitra has judged the micro-teaching, seminar and project respectively.

Detail of date wise organized program

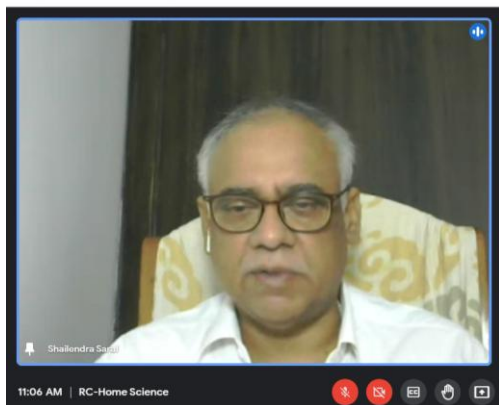
The online Refresher course in Home Science was organized from 22/09/2021 to 06/10/2021. Various programmes were conducted date wise.

Day 1 (22/09/2021)



The Program started at 10.30a.m. with the welcome address by Dr. Arvind Agrawal, Assistant director, H.R.D.C., P.R.S.U. Raipur in the august presence of Respected Chief Guest Prof. K.

L. Verma, Vice Chancellor, P.R.S.U. Raipur and Prof. Shailendra Saraf, Director, H.R.D.C., P.R.S.U. Raipur. Respected V.C. Prof. K.L. Verma got acquainted with all the participants, then the course coordinator Dr. Abhaya R. Joglekar gave detailed information regarding the 12 days Online Refresher course in Home Science to the participants. In the end, the respected Vice Chancellor gave brief information about the program while congratulating the Participants.



Director, HRDC



Course Coordinator



In the second session (12.15pm to 13.45pm) **Dr. Aruna Palta**, Honourable Vice Chancellor Hemchand Yadav university Durg spoke on Foods that Harm foods that Heals. Session-II

Resource person- Dr. Aruna Palta

Topic: Foods that Harm, Foods that heal

(i) Foods that harm

Anything taken in excess is harmful for body. Some food products even consumed in very few amounts can be harmful for human beings. Need is to identify those food products and know the limit of consuming different food products.

Restrict your sugar: 5 teaspoon (25 g) of sugar per day is enough for a person. One cup of tea or a biscuit contains 1 tea spoon of sugar. By taking more amount of sugar in diet we are at the risk of getting depression, type II diabetes, early ageing, acnes, cancer, heart disease etc. It also leads to memory loss, gout, dental status and sugar can be restricted by avoiding packed/artificial juices which is loaded with sugar. Excess of fruits is also bad to health. Excess of fruit/Fruit juices increases fructose level in body which resists the level of leptin in body which increases hunger and leads to over eating. High fructose intake also leads to non-alcoholic fatty liver disease.

Restrict your salt- 5-10 g of salt per day is recommended. Stop putting extra salt in rice, roti etc. excess salt leads to stroke, heart failure, kidney disease, stomach cancer, osteoporosis, etc. All bakery products contain salt or baking soda in it which is harmful. So, reduce the intake of bakery products. DASH diet is a low salt diet which regulates blood pressure. Try to eat food in its natural flavour. Substitutes to salt may be lemon juices, herbs like coriander, black pepper, green chilies.

Limit fat intake: Thoda kam slogan for- “namak, shakkar and fat”. Intake of 25 g (4-5 teaspoons) per day in the form of visible fat is recommended. Chose the best type of fat for healthy living. For frying, rice bran oil is best because it allows very less absorption of fat in food products. Groundnut oil, mustard oil and sunflower oil is good for cooking food. Oil should be changed every month. Single oil use may benefit one organ but may harm the other organ. Therefore, it is recommended to use a combination of oil or to change the oil every month. Trans-fat should not be consumed even in small amount. 3 teaspoon of oil and 2 tea spoons of ghee or butter should be consumed in form of fat daily. Coconut oil has germicidal effect so it is fed to malnourished children. 1 lit coco oil may be mixed with other type of oils. PUFA, MUFA should be taken daily.

Pesticides- Consumption of foods contaminated with pesticide may cause reproductive problems, Parkinson’s, cancers etc. It may also led to eating disorders, sleeping disorders etc which causes

several other problems. Try to grow kitchen gardening to avoid pesticides in food. residues of pesticides are even seen in cow milk. Vegetable and fruits can be washed by dipping it in 2% salt solution or vinegar water or by blanching. Remove the peel of fruits to remove the effect of pesticides. To remove the pesticide from milk, boil it at high temp and then to sim temp. pressure cooking, frying and baking also removes pesticides from meat and poultry.

Foods that heal

Balanced diet: Calories composition of daily diet should be as 50-60% from carb, 10-15% from protein, 20-30% from fat with abundant amount of water, fibers, antioxidants and phytochemicals and less amount of harmful products. Combination of various food group provides balanced diet. Even milk is also not a complete food as it does not contain iron and vit-c.

Antioxidants: It clean your body from free radicals. Sea foods, nuts, grapes, peas, rajmah, gram, orange, green colour fruits and vegetables are rich source of antioxidants. Turmeric, red and yellow capsicum, Green tea and Lemon tea also contain good amount of antioxidants.

Probiotics: These are beneficial bacteria taken to increase the number of good bacteria in the gut. Sources of probiotic are dahi, lassi, yogurt and fermented products. These bacteria improve digestion and assimilation of various nutrients. Curd is superior to milk.

Fibres

- 25-30 g of fiber should be taken every day. It reduces cholesterol level and blood sugar level, prevents constipation and cancer. Wheat bran and Methi seeds are richest sources of fiber. Oats, flax seeds, drink lot of water also increases fiber content in body. Always drink water at room temperature. Dip silver coin in a copper jug as it improves the mineral content of water.

Drink smart: A healthy human being should drink 8-10 glasses of water every day. Other good drinks are butter milk, coconut water, nimboo water with salt and jeera. Lemon tea and green tea can also be consumed.

Spirulina (blue green algae): It is known as food for the future. It contains 65-71% complete protein. It also contains Vit. B-12, B-carotein. It helps in reducing blood pressure and body weight. It is available in the form of tablets and powder. Some dalia and biscuits are supplemented with it. It is good for elderly people, sports person and for those whose calorie requirement is high.

Organic foods: Grow at home to get organic food which is free from harmful chemicals.

Calcium and Vit-D- Most of the women suffer from vit-D and calcium deficiency. Hip fracture is very common among them. To get good quantity of vit -D, one should expose themselves to sunlight from 9:00 AM to 4 PM. Because this is the time when absorption of vit-D from sunlight is maximum.

Nutrition & immunity: Healthy diet and free of stress with positive thinking increases immunity of person. Immunity is necessary to keep oneself healthy and disease free.

Lecture was followed by a healthy discussion and a question answer session.

Chairperson of both the session was Dr. Ajay Kumar Patel. Before the start of lecture, he introduced the resource person and at the end, He delivered Vote of thanks to the resource person. vessels and we should use iron pot for cooking.

In the third session (14.15pm to 15.45pm) **Dr. Smita Pathak**, Professor, explained about life Style diseases, She says today's lifestyle is very modern and instant that's why we face so many problems in our life. Because of our life style and eating habits we face so many side effects of fast food and junk food instead of benefits to the human body. That's why we have to change our daily diet habits and lifestyle by self-motivation. On the basis of modernity today's lifestyle of human being is very instant and inactive.

less physical activities done by people lowers the circulation of blood in human body effect and which result in a lazy and fatty person. More use of electronic devices like Computer, Mobile, Television are the major cause of ill health of people. It is therefore recommended that we should follow a routine. Proper rest and sleep is required for good metabolism.

In the 4th session **Dr.Archana Patki spoke** on life skills and its utility. She said that life skills plays very important role in every part of life. She explains 10 life skills. She says that with the help of life skill our life becomes very smart, and easy. In everyday life we face so many problems, ups and downs in such conditions life skills becomes very helpful for us. And in everyday life we face so many challenges at our work places, class rooms and parenting. Life skills also help to control stress, emotions and anger.

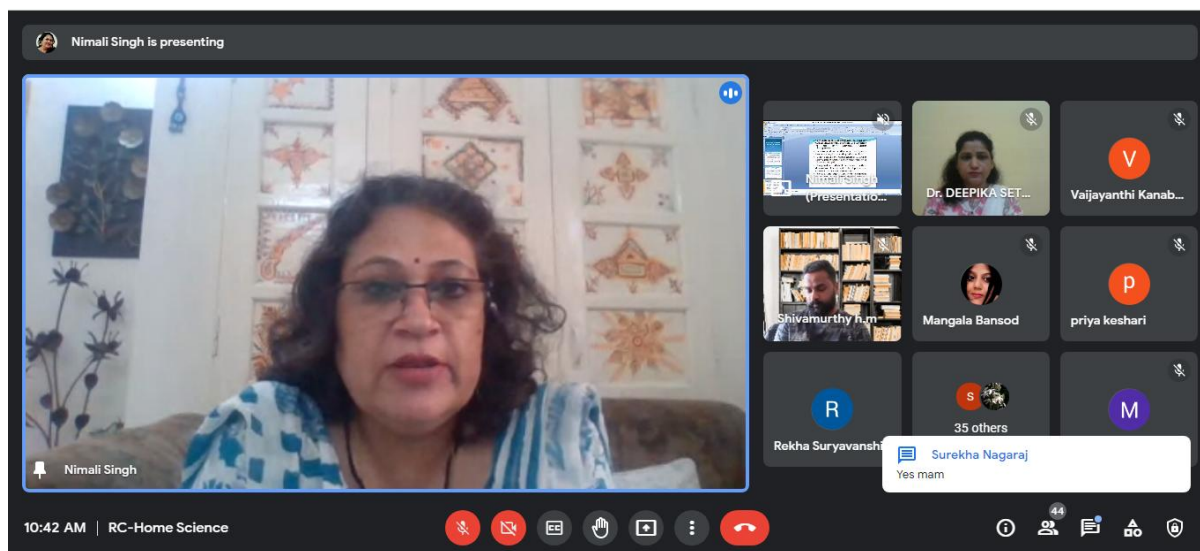
Day 2 23/09/2021)



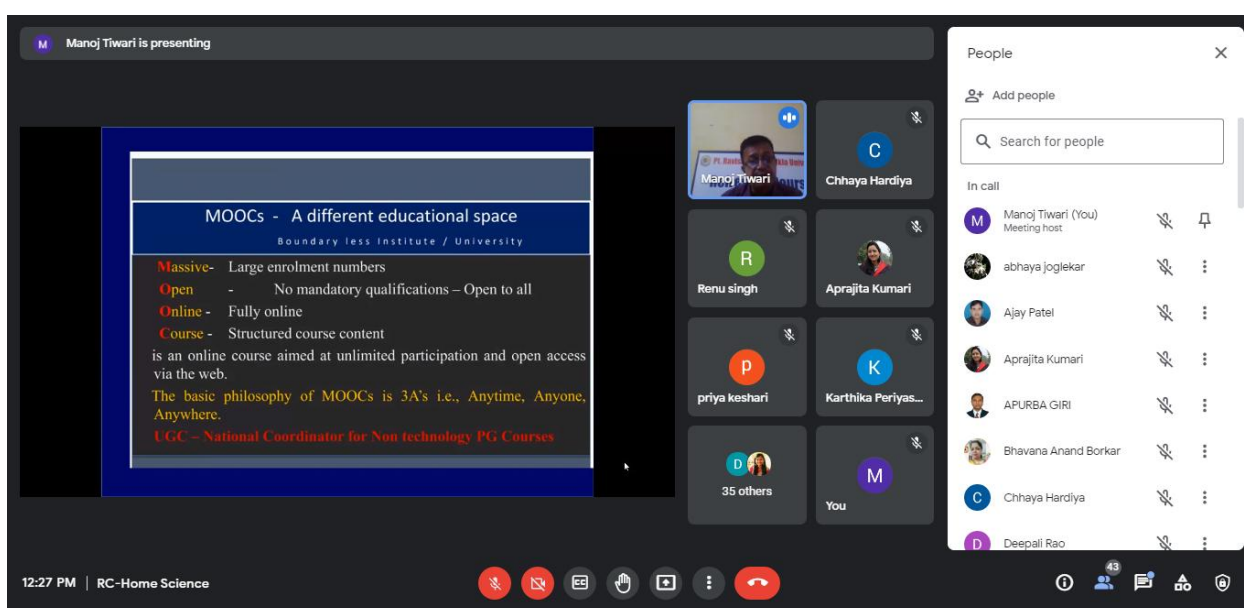
In the Third session (14.15pm – 15.45pm) सेशन 3 में मुख्य वक्ता के रूप में श्री वी. वाय. जोगलेकर सर ने “तनाव प्रबंध” विषय पर बहुत ही ज्ञानवर्धक व रुचिपूर्ण ढंग से जानकारी प्रदान की, जिसमें उनके द्वारा बताया गया कि तनाव एक लगातार चलने वाली प्रक्रिया है व एक वास्तविक स्थिति है जिससे कोई भी व्यक्ति अछुता नहीं है, यदि व्यक्ति तनावपूर्ण स्थिति में लगातार रहता है तो वह कई गंभीर बीमारियों से ग्रसित हो जाता है। साथ ही उनके द्वारा तनावपूर्ण स्थितियों के प्रबंध के विभिन्न तरीकों को विस्तृतता से समझाया गया और अंत में प्रतिभागियों की जिज्ञासा का समाधान किया गया। सेशन 4 में मुख्य वक्ता के रूप में डॉ. सी. डी. अगासे द्वारा “स्वास्थ्य और फिटनेस” विषय पर व्याख्यान दिया गया। जिसमें उनके द्वारा बताया गया कि स्वास्थ्य और फिटनेस दो संबंधित अवधारणाएं हैं जो कि शारीरिक व्यायाम और सही आहार द्वारा प्राप्त की जाती हैं। साथ ही उन्होंने बताया कि फिटनेस का अर्थ केवल शारीरिक रूप से फिट होना नहीं है, इसका अर्थ व्यक्ति की स्वस्थ मानसिक स्थिति से भी है। स्वस्थ और फिट रहने का सरल तरीका है, नियमित व्यायाम और संतुलित आहार के साथ तनाव मुक्त मस्तिष्क। अंत में सर द्वारा प्रतिभागियों के प्रश्नों का समाधान किया गया। सत्र के अंत में आभार डॉ. दिपाली राव द्वारा दिया गया

Day 3: (24/09/2021)

In first session (10.30am - 12.00 noon) Dr. Nimali Singh, professor of home science from Rajasthan University delivered her speech on " Regional Diets & Its Importance ". In the beginning of her talk she gave a brief about the requirement of traditional as well as regional diets. During the speech, she discussed about the forgotten foods and their importance. She explained how we can preserve our old heritage.

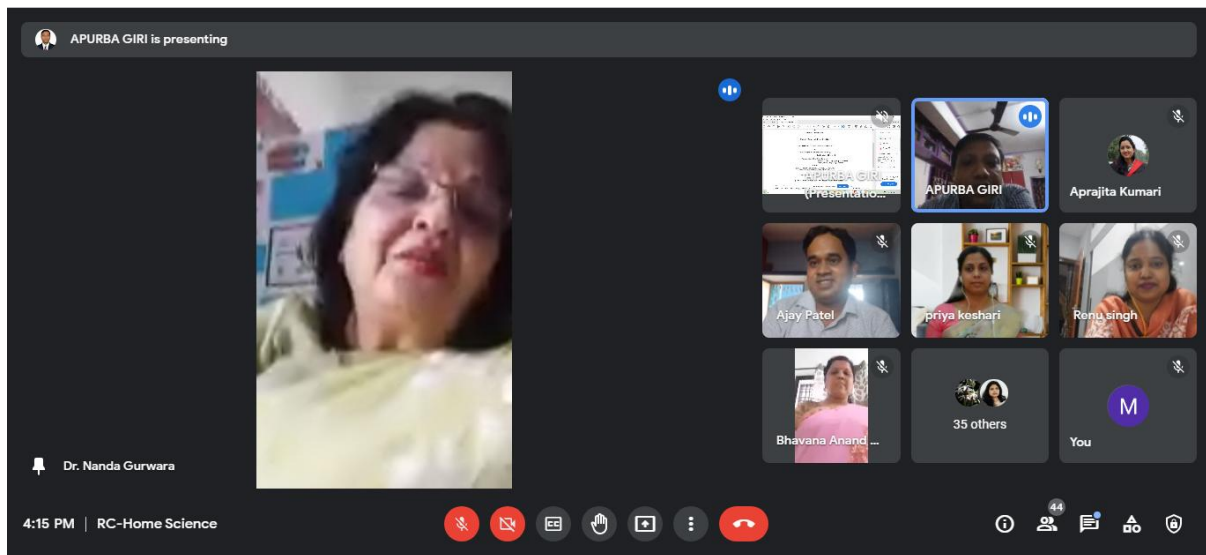


In the second session (12.15pm - 13.45pm) Dr. Arwind Agarwal, Professor, P.R.S.U, delivered his talk on "Moocs". He explained the origin of Moocs, benefits of moocs, credit mobility of moocs, swayam and the recent trends in this field. He presented the talk in a very interesting manner to the participants and also cleared their various doubts as well.



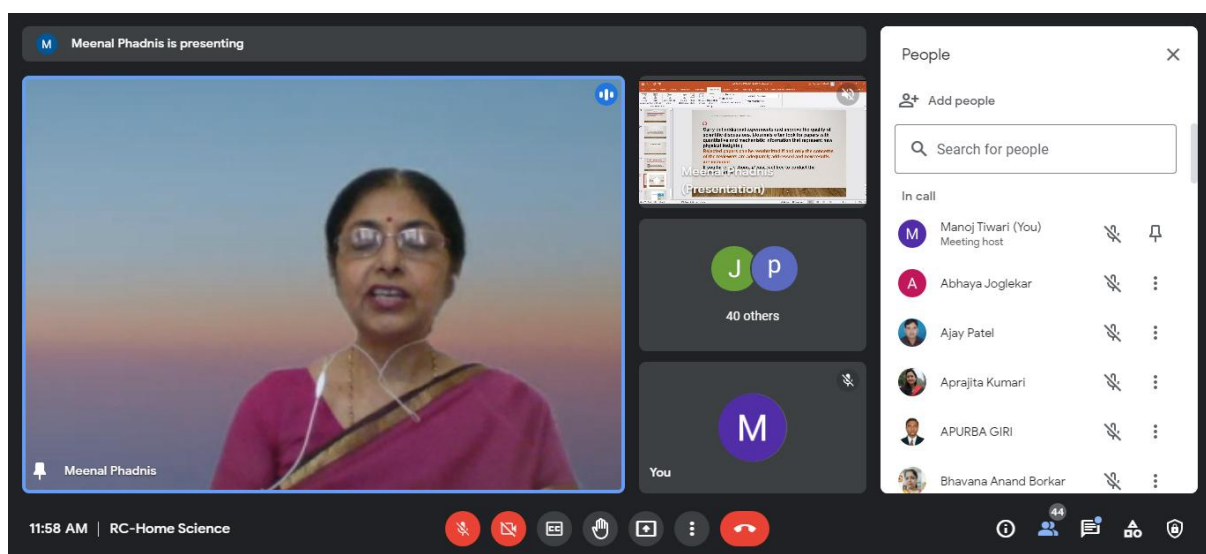
In the Third session (14.15pm – 15.45pm) Dr. Sunita Chandorkar, associate Professor, Department of Foods and Nutrition from MS University Baroda, delivered a lecture on food system. She explained SDG(17) in detail and interesting manner. She also suggested that what can be the ways for support of effective food system.

In the fourth session (16:00pm – 17:30pm) under the guidance of **Dr. Nanda Gurwara**, prof of Home science evaluated participants through microteaching. Approximately 20 participants gave their microteaching on various topics related to module one after another. After this Dr. **Gurwara** made a brief analysis of the teaching methods and skills of the participants.



Day 4: (25/09/2021)

In the first session (10.30am – 12.00 noon) **Prof. Meenal Fadnis** of Department of professor of home science from Bhopal , delivered her speech on "how to write research paper". She explained the about the basic point that should be kept in mind while preparing a paper. She also aware the participants with journal and their formats. She answered all the questions raised by the participants patiently.



In the second session (12.15 pm– 13.45 pm) **Dr. Jaya Tiwari, Professor of English, Govt.D.B.Girls College, Raipur** deliberated the talk on “GENDER EQUALITY - Towards a world of equals”. Respected Dr. Tiwari Started her talk with fundamental concepts of gender. Then she discussed the the issues in detail. After that she explained the suggested few ways to bridge the gap. She also answered the questions of the participants in a lucid manner.

In the third session (12.15 pm– 13.45 pm) Dr. Yash Patel, Asstt. Professor of food technology, Central University Bilaspur deliberated the talk on “Processing and Value addition in Fruits and Vegetables”. Respected Dr. Patel started his talk with fundamental concepts of WHAT IS VALUE ADDED. Then he discussed the issues in detail. After that he explained the suggested how this can be important for us in daily life. He also answered the questions of the participants in a lucid manner.

In last two consecutive sessions (14.15pm - 15.45pm and 16.00pm - 17.30pm) under the guidance of Prof. N K Chakradhari, SOS in Physics and Astrophysics, P.R.S.U., Raipur, remaining 25 participants gave their microteaching on various topics related to module one after another.

Day 5: (27/09/2021)

In first session (10.30 am - 12.00 noon) **Dr.Prashant Shriwastav, Dean ,Student welfare Hemchand Yadav university Dur,** explained about "how to apply for research projects and fellowship". In his talk, Dr. Shriwastav very concisely explained the details about project preparation. He motivated the participants to work towards the all-round development of their students as well as enhancing their own skills and critical thinking. डॉ श्रीवास्तव ने भू जव हमज तमेमंतबी चतवरमबज दक मिससवूच शीर्षक पर अपना व्याख्यान दिया। व्याख्यान को दो भागों में प्रस्तुत किया गया। प्रथम भाग में भू जव हमज तमेमंतबी चतवचर्वेस के अंतर्गत तूपजपदह तमेमंतबी चतवचर्वेस मुख्य अवयवों का विस्तार से वर्णन किया। जिसमें बताया कि शीर्षक की भाषा सरल व स्पष्ट होनी चाहियें। शोध के चर शीर्षक में स्पष्ट होने चाहिये। शोध प्रस्ताव के लक्ष्य व उद्देश्य स्पष्ट होने चाहिये। और उसका समाज में योगदान हो जिससे समाज को लाभ प्राप्त हो सके। परिचय के अंतर्गत शीर्षक क्षेत्र, शोध प्रश्न और ज्ञान के महत्व के बारे में बताया। साहित्य की समीक्षा में उन्हीं अध्ययनों का चयन किया जाये जो महत्वपूर्ण और विषय से संबंधित हो। साथ ही ळाच्य स्मंबनद की विस्तार से चर्चा की। साख्यकीय विधि के अंतर्गत शोध प्रश्न, शोध डिजाईन, शोध विषय, तथ्य संकलन विधि, तथ्य आवश्यकता एवं साख्यकी विधि के बारे में बताया। शोध प्रस्ताव के आधारीय अवयवों में आगे तथ्यों का विश्लेषण, परिणाम, ठपइसपवहतंचीपब एवं तमतिमदबमे में अंतर, समय सारणी की उपयोगिता, बजट का महत्व, निष्कर्ष आदि बिन्दुओं की विस्तृत जानकारी दी।

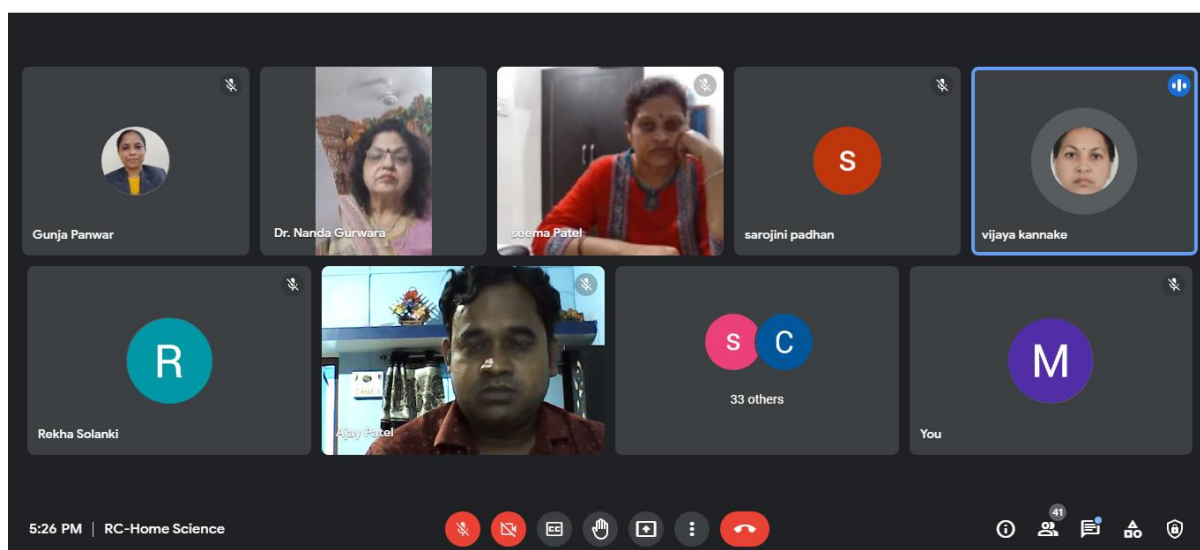
शीर्षक के दूसरे भाग में विभिन्न छात्रवृत्तियों के लिए कैसे आवेदन किया जाता है। एवं निम्नलिखित छात्रवृत्तियों की विस्तृत व्याख्या की—

1. UGC name of scheme (S) major and minor research project
2. USA india fullbright fellowship
3. Commonwealth academic staff fellowship
4. The UGC-BSC faculty fellowship
5. UGC faculty research promotion schemes
6. Emeritus fellowship
7. UGC fellowship
8. UGC scheme for fellowship
9. CSIR fellowship
10. Research fellowship/ associate ships and other important fellowship

11. Department of biotechnology (DBT)
12. DST schemes
13. Department of energy
14. I SRO, department of space
15. MOEF, MOWR, CGCOST
16. Chattisgarh state planning commission
17. Funding agencies for social science
18. Ford foundation
19. UKIERI
20. Higher education and research awards
21. Toyota foundation
22. General foreign of internatonal funding agencies

डॉ श्रीवास्तव द्वारा प्रतिभागियों के सभी प्रश्नों का जबाब बड़े ही सहज स्वभाव से सरल शब्दों में दिया गया। जिससे प्रतिभागियों की जिज्ञासा की संतुष्टी हुई और उन्होंने भविष्य में विषय से संबंधित मदद के लिए प्रतिभागियों को आश्वासन दिया।

In the second session (12.15 pm– 13.45 pm) Dr. Seema Mishra, Professor of Home science, Govt. Bilasa Girls College, Bilaspur deliberated the talk on “Neutrigenics”. Respected Dr. Mishra started her talk with fundamental concepts of netrigenics. Then she discussed the issues in detail. After that she explained the suggested how this can be important for us. She also answered the questions of the participants in a lucid manner आज दिनांक 27.09.2021 के दूसरे सत्र 12:15 से 1:45 में मुख्य वक्ता डॉ सीमा मिश्रा ने NUtrital Genomics-A new aspiration in nutrition science विषय पर व्याख्यान प्रस्तुत किया। डॉ मिश्रा द्वारा Nutrigenomics, Nutrigenetics, Nutritional genomiç पर विस्तार से चर्चा की। मेडम मिश्रा us SNP, multiple SNPs ,oa Epigenetic modification को समझाया। डायट में आवश्यक तत्वों के बारे में चर्चा की। familiar Aggregation of desease, complex diseases (CVD), The complexity of interaction, factor V leiden mutations, How diet affects phenotype, sickle cell anemia, personalized nutrition, takeaway, niacin, vitamin D आदि बिन्दुओं से विस्तार से वर्णन किया।

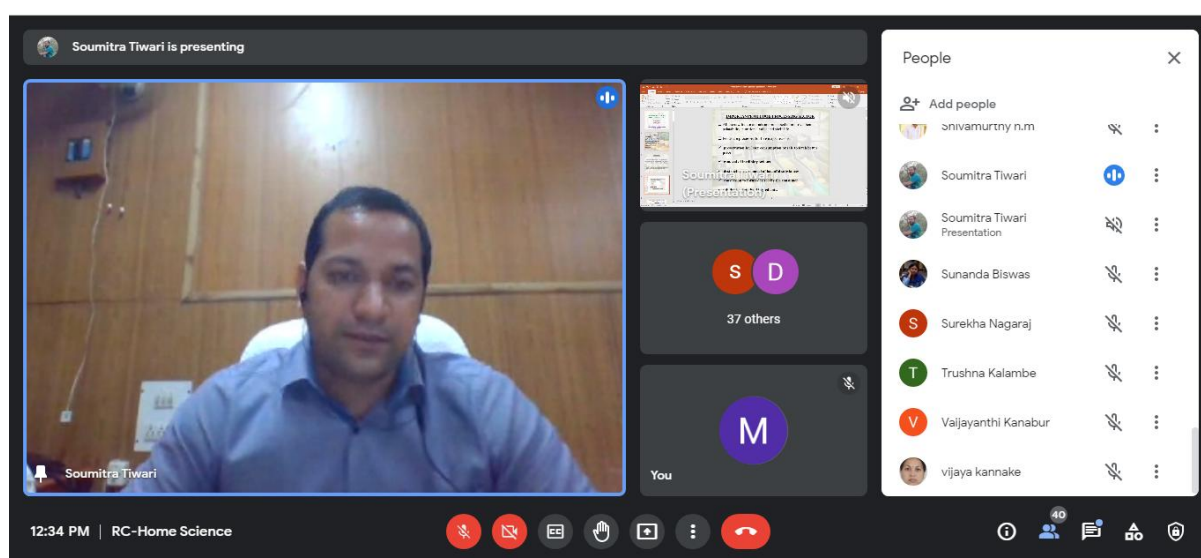


In the Third session (14.15pm –15.45pm) **Dr. Aditi Poddar**, Professor, Department of Life Sciences evaluated the seminar presentations of participants. All the participants actively participated in it. All the seminar were presented in the form of ppt.

Day 6: (28/09/2021)

In the first session (10.30 am– 12.00 noon) **Dr. Meenal fadnis**, Professor, of Home Science ,Bhopal, in her speech elaborately discussed on the topic “Measurement And Scaling Techniques”. In her lecture she explained properties, sources of error measurements, respondent, situation, levels of measurements tools and their techniques in details. All the participants were happy with interactive session.

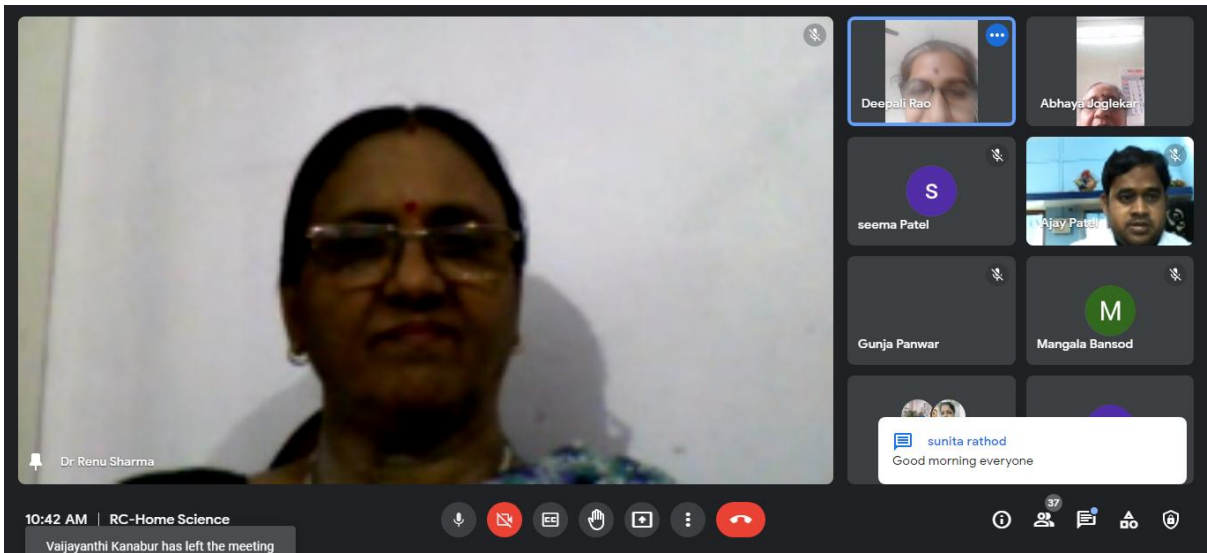
In the second session (12.15pm - 13.45pm) **Dr. Soumitra Tiwari from Dept. of Food Processing & Technology, Atal Bihari Vajpayee Vishwavidyalaya, (Bilaspur) Chhattisgarh** delivered a talk on " Food Processing an Opportunity ". in his lecture first he explained about the Importance ,scope,challenges,and safety measure while investing in Food Processing Sector.



In the Third session and fourth session (14.15pm –15.45pm) **Professor, Department of Life Sciences** evaluated the seminar presentations of participants. All the participants actively participated in it. All the seminar were presented in the form of ppt.

Day 7: (29/09/2021)

In the first session (10:30am- 12:00 noon) **professor Renu Sharma**, delivered lecture on "New opportunities in the field of home science.". Dr. Renu Sharma ने कहा की होम मेकर दह शोसल फु ल मेकर है। बन जाते है। ए होम सायंस दशक्षा से दह होता है। इसके दशक्षा से सोसायटी आसपास के लोग जुडे हुये रहते है। उन्होने कहा की होम सायंस के छे शाखाये होते है। इस दिषय के आधार से Time Manegmt कर



सकते हैं। होम सायंस सायंटिस्ट नॉलेज है इसमें सायंस और आर्ट्स का combination है। इसके दशका से आहार की समस्या और जीवित शैली बिल गयी है। इसका नॉलेज सोसायटी और राष्ट्र की उन्नति में बढ़ावा देता है। Home Science में अलग अलग नौकरीयों की संधी तथा स्वयं रोजगार की संधी प्राप्त होती है। होम सायंस की व्याप्ति, गोलू स बताये। होम सायंस के रोजगार प्रकार बताये इस दिषय से डडग्री लेणे से अध्यापन कर सकते हैं। Catering, Food preservation, Hobby classes, Brokary, Social Welfare and Community Programme, Interior Decoration, Textile, Designing Garment, and House keeping. इसमें नौकरीया और स्वयं रोजगार दनमाटण कर सकते हैं। व्यासादयक सेफ, स्वास्थ्य दशदक्षका, दजम्स, दफटनेस टरेदनंग सेंटर, आहारतज्ञ, जैसे हेल्थ क्लिनदनक, इत्यादी जगह रोजगार और स्वयं रोजगार प्राप्त कर सकते हैं। ऐसा उन्होंने कहा।

2nd session : 12.15 to 13.45

Title – Nutrition and health. Ressouree Person Dr. Mitashree Mitra Retd Prof.

& Head of SOC. Life Science. Pt RUSU, Raipur

Nutrition and health के बारे में Dr. Mitashree Mitra इन्होंने कहा की अच्छे Health के दलये उदचत आहार होना बहुत आिश्यक होता है। हर को Nutritive Value Health के आिश्यक नुसार ले ना चादहये। हमारे स्वास्थ्य के दलये अच्छा रहना चादहए। उसको दबमार नहीं करना है। ऐसा भोजन प्राप्त करना चादहए। इसदलए Balanced Diet ले ना आिश्यक है। उहोने कहा की आित ओर काम पर आधारीत रहना है। खानपान में दिदिधता का भी ज्याि आिश्यकता है। और खानपान community द्वारा बनाया जाता है। जो हमारे खानपान में दमलता िही हम भोजन में खाते हैं। इसदलए good Food को सामील नहीं करते हैं। Artical – 47 में शासन प्राथदमक िादयत्व जनस्वास्थ्य बनाने में प्रयास कर रही है। भोज्यं पिाथट में क्या पोषक तत्व खाते हैं। कै से ले ना चादहए। यह बताया है। उन्होंने बताया की B complex से बहुत सारे आजार होते हैं DNA के दलए सोडीयम,

पोटॅदशयम, मॅग्नेदशयम आिश्यक है! पाणी पोषक तत्व में आिश्यक घटक है। और पाणी सही मात्रा मेंदलया जाना चादहए ग्लोबलायझेसन की िजह अलग-अलग भागो की रेसीपी अब करने लगे हैं। उन्होंने बताया की ३३% आदििासी छत्तीसगड में हैं। उन्होंने छत्तीसगड के आदििासी के रहनसहन खानपान, और उनके traditional food के बारे में उनके अनूभि बताएँ उन्होंने बताया की आहार आयु, दलं ग, काम का स्वरूप के आधार पर पोषण चादहये खानपान में फे रबिल करके खाना ले सकते हैं। उन्होंने कहा की Nutrition Policy Develop करणे की जरूरत है। तो पोषण स्तर सुधार पायेंगे स्वास्थ्य अच्छा नहीं रहा तो कुछ अच्छा नाही होगा। इसदलए स्वास्थ्य पर ध्यान िेणे की जरूरत होती है। ज्यो समुिाय Risk में है। उनका अभ्यास करणा चादहए और उनके आहार में सुधार लाना चाहीए यह बताया।

In the third sessions (14.15 pm - 15.45 pm) Today Anjali Rajwade gave detailed information about osteoporosis, Madam told in which age group this problem can be formed. What is PBM Osteoporosis mainly leads to weakening of bones, due to hormonal changes, this problem is found mostly in women and at a young age. She Also told about 7 body building nutrients in it :- 1. Calcium 2. Vitamin D. 3. Protein 4. Magnesium 5. Potassium 6. Vitamin 7. Vitamin C. She also explained about its source, along with it, Madam also told the importance of exercise and also the importance of Omega-3, along with Madam also told many easy recipe. In this way madam has completed session in very nice and simple language.

In the fourth session (16.15pm - 17.30pm) Dr. M. "Sylvia Subapriya gave information about sport nutrition in very good and simple language, in that she explained:-wellness and fitness , Sport nutrition a. Nutrition b. Hydration , Stress management , Risks of immobility. Along with this, Madam also gave information about nutrients, also explained the importance of sports and how sports and nutrition diet are dependent on each other, explained it very well and also told key facts along with it and also very good about working system. Told with him also tell the consequences on wellness such as :-

1. Emotional
2. Spiritual
3. Intellectual
4. Physical
5. Environmental
6. Financial
7. Occupational
8. Social

Day 08: (30/09/2021)

Prof. Asheesh Srivastava Educational Studies (MGCUB)

4:07 PM | RC-Home Science

Abhaya Joglekar

Vajayanthi Kaniabur

Dr. Anupam Gupta

dipika das

sarojini padhan

Minakshi Kanfode

APURBA GIRI
is there ppt slide?

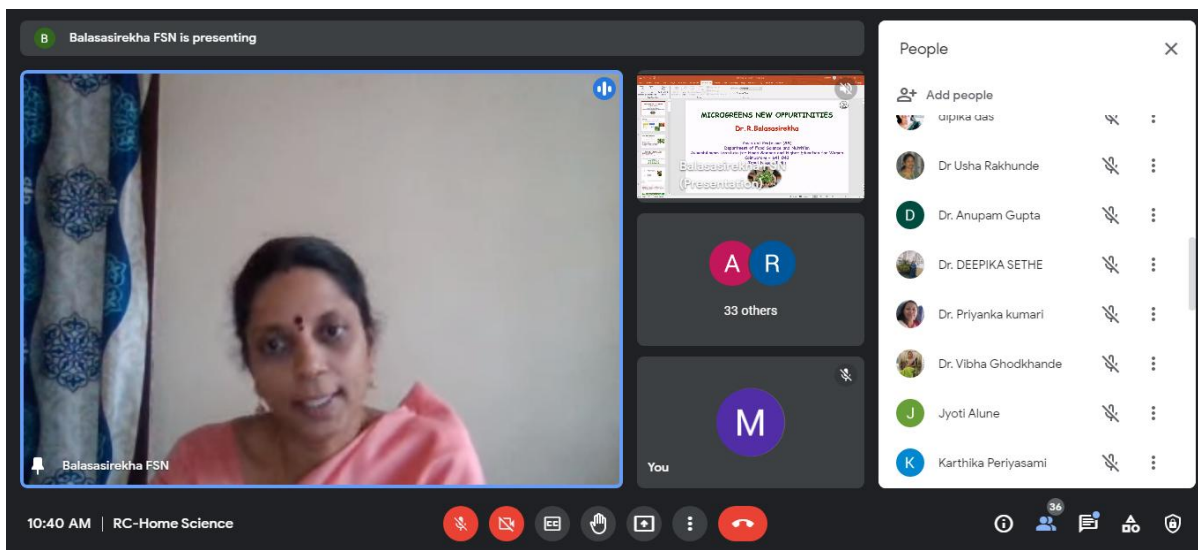
Day 9: (01/10/2021)

The first session on Microgreens New Opportunities conducted by Dr. R. Balasasirekha, Asstt Prof. (FN) (Avinashilingam University Coimbatore, Tamil Nadu) (between 10:30 am to 12:00 noon.

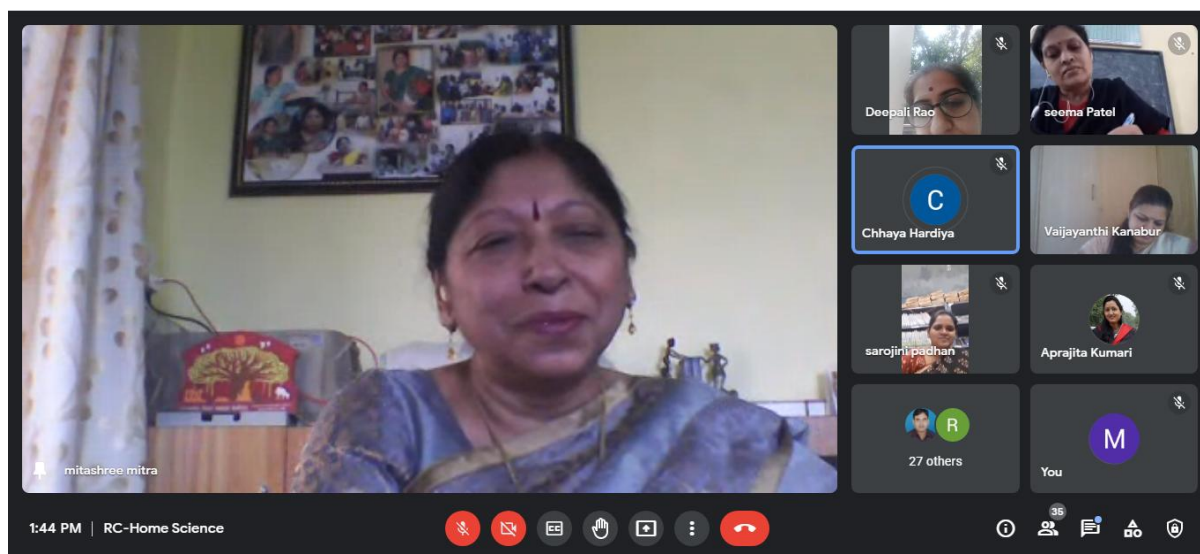
- She has explained the topic very informatively about Greenleaf vegetables, Watercress, Romainelettuce, Argula, Kale, Drumstic leaves, Amargranth leaves in their nutrient value and high dietary fiber, ascorbic acid, vitamin-k, Mg, K etc.
- She has explained that how beet is fulfill of nutrient including antioxidant that support the health of eyes.
- Sheintroduced new young vegetables called Microgreen and explained it with their examples.
- She has discussed about the history of Microgreens Vs sprouts.
- The methodology about how to grow the plants by applying different strategies like watering by use of spray or pots for grow etc.
- Discussed about the germinated process of the plants
- The requirement of proper temperature to grow.
- Disused about the various techniques for cutting, plucking without disturbing roots, etc.
- Nutritional importanceof super food, storage and their shelf live.

The Second session on Role of Home Scientist in Sustainable development conducted by Dr. Pushpanjali Samantray (Prof. of H. Sc. Berhampur University, Odisha) between 12:15 pm to 1:45pm.

- She explained the significance of the skill development for students carrier
- Export technique skills, soft skills, life skills, theory and practical.
- How to improve creative thinking, problem solving ability, decision making, confidence building and self-awareness.
- 10professional skills- communications, technical skills, soft skills- time management, leadership, hard skill-marketing, management, life skill- how to face the challenges and solve it.
- Decision making power, selfawareness-entrepreneur skill, innovative skill-cooperative thinking
- Conflict resolutions.
- 3 steps responsibility taken- academician, government and non-government scheme.
- Government policies

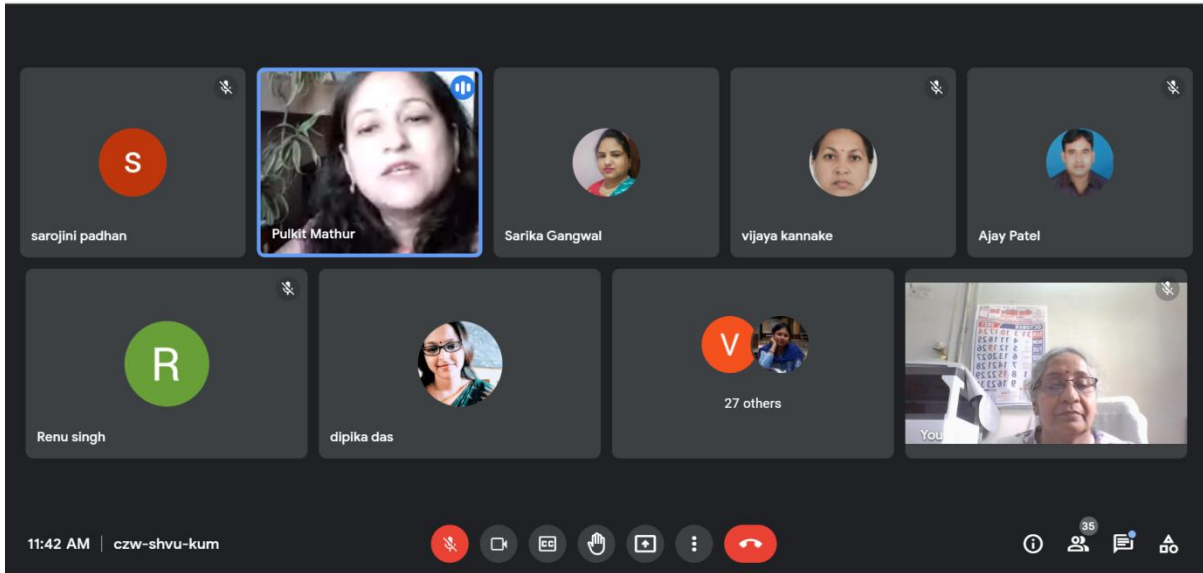


The third session (14.15pm - 13.45pm) the project presentation of the respected participants. Presentation was taken by the Dr. Mitashree Mitra. Eight groups were presented their project presentation. The session was very informative and we all were enlightened by the Dr. Mitashree Mitra, regarding the how to write the project proposal, importance of Scopus and UGC Care listed journal. We all are very thankful for the entire organizing team of UGC-HRDC,PRU,Raipur for giving us a nice platform.

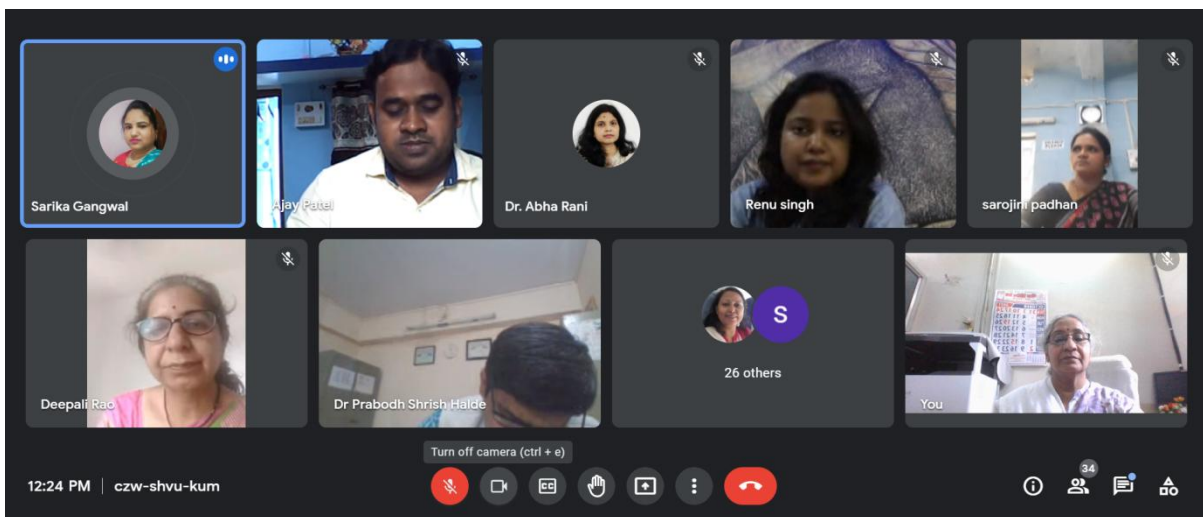


Day 10: (04/10/2021)

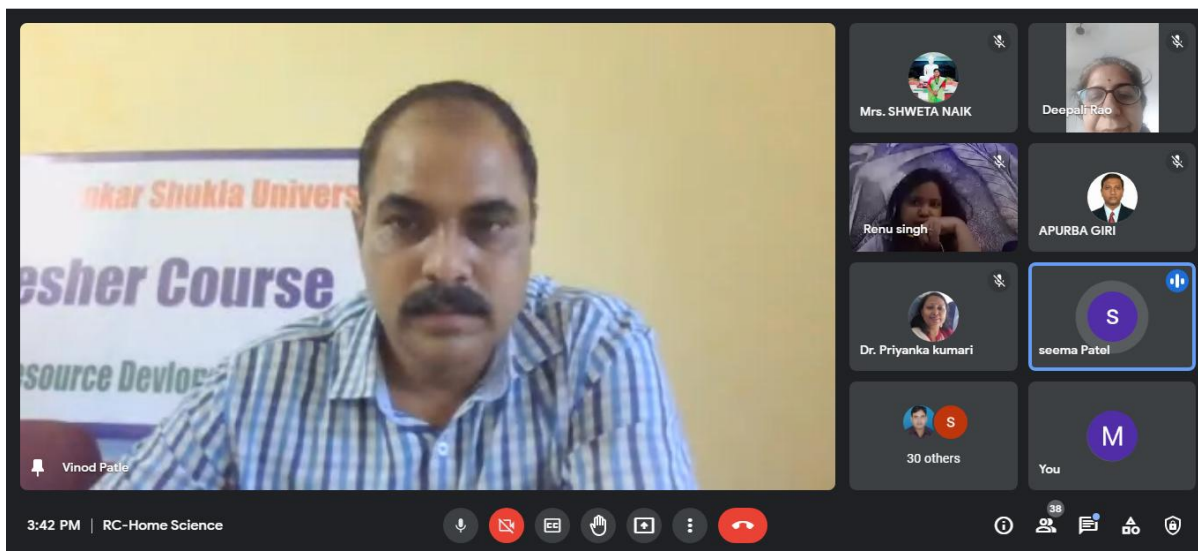
In the first session (10.30am - 12.00pm), **Prof. Pulkit Mathur**, Department of food and nutrition, Lady Irwin College, Delhi, In the first session, Resource person Dr. Pulkit Mathur discussed on tackling the scourge of malnutrition- building sustainable and resilient food system in India. She stressed importance of healthy and sustainable diet, sustainable farming, promoting healthy diets through local food system- challenges and opportunities. She had a wonderful presentation by explaining the food system resilient in the pandemic, food system metric indicators, UN food system summit -2021, India vision -2030, food future foundation, formulation of healthy food products.



In the second session, Resource person **Dr. Probodh Halde**, President, AFST, Mumbai Chapter and head technical regulatory Marico Ltd. spoke about the innovation during world war, strengths of india, Atma nirbhara and its importance, discussed importance of food and nutrition in light of covid, Existing nutrition challenges, deteriorations in diet quality, food processing trends. He also talked about direct and indirect threats of COVID-19 on maternal and child health, food system innovations, and social safety net programs to improve dietary quality and food and nutrition surveillance systems. Participants posed different questions/doubts and it's clarified by resource person.



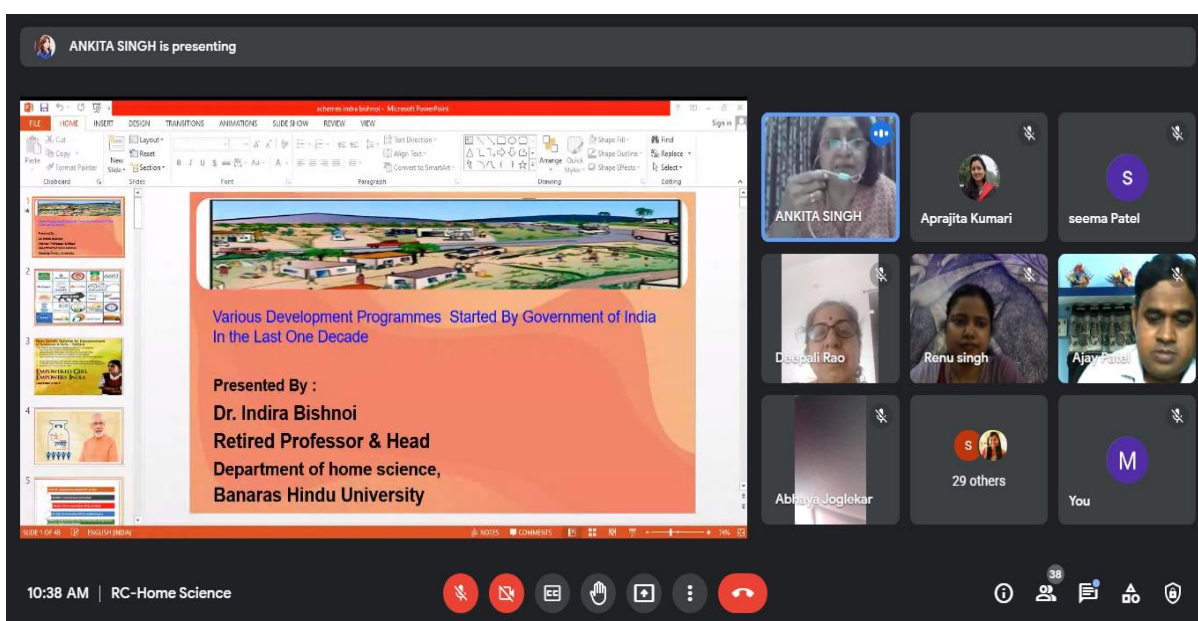
In the third sessions (14:15pm – 15:45pm) **Dr. Vinod Patle**, Professor, Department of Computer Science, Pt. R S University, Raipur presented his lecture on "How to prepare effective ppt". He explained what points should be kept in mind while preparing ppt. the graph, table, chart should be used properly. He also cleared the doubts of the participants. The session was very interesting and interactive.



The fourth session (16.15 pm- 17.30pm) was the session for the projects, to be presented by the participants. The projects were evaluated by Prof. Mitashree Mitra, Retd. Professor and Head, SOS in Anthropology, PRSU, Raipur CG the projects were presented by the groups. All the groups presented the project one by one. After each presentation she suggested some necessary corrections to improve the quality of a research proposal. At the end of the session, chairperson was given thanks for evaluating the projects presented by the participants.

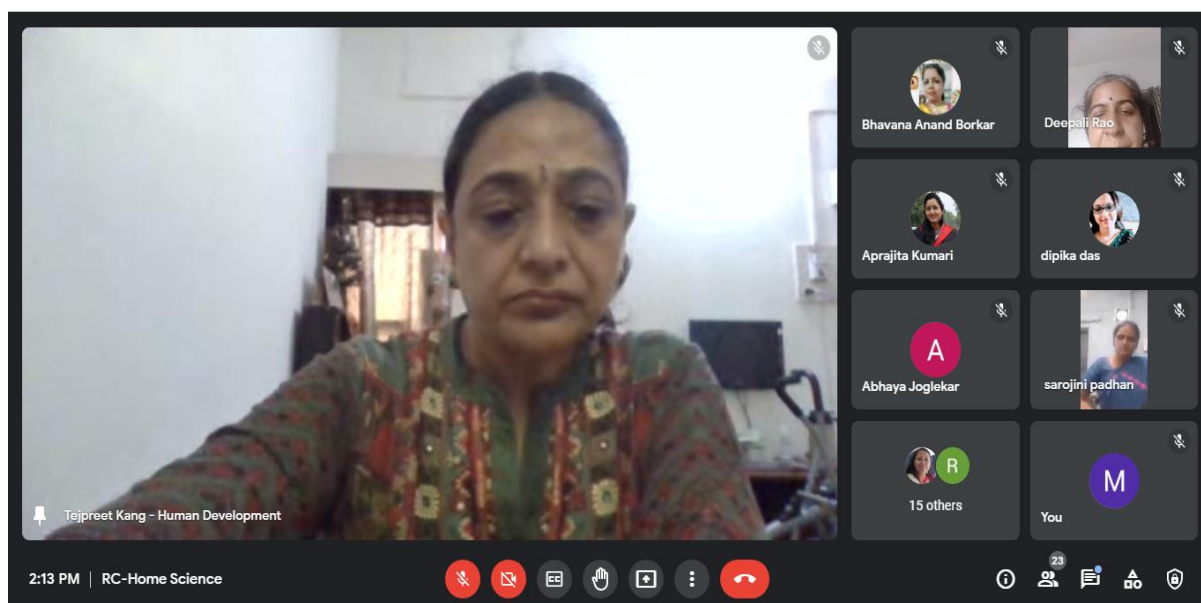
Day 11: (05/10/2021)

The first session (10.30 am- 12.00 noon) was taken by **Dr. Indira Bishnoi**, Department of Home Science, Banaras Hindu University. She delivered the talk on " Various development programmes started by government of India in the last one decade". She answered the queries of the participants, some the participants also discussed their current research and related issues and Prof. Bishnoi satisfied the queries in very interactive manner.



In the session (12.15pm - 13.45pm), **Prof. Bhawana Sharma**, Department of Textile and Laundry, MH College of Home Science, Jabalpur, MP delivered lecture on the topic “Unconventional Fiber and its use in daily life”. Prof. Sharma started her talk with the basic fibres used in textile industry then she elaborated on unconventional fibres in detail. The session was very interactive, the expert and the participants discussed the related topics in a very fruitful manner.

The third sessions (14.15 - 15.45 and 16.00 - 17.30) was taken by **Dr. Tejpreet Kaur Kang**, she delivered a lecture on “Restructuring Home Science”. She answered the queries of the participants, some the participants also discussed their current research and related issues and Prof. Kang satisfied the queries in very interactive manner.



The fourth sessions (14.15 - 15.45 and 16.00 - 17.30) **Dr. Pubali Dhar**, Prof and Head Home Science Kolkatta University. She delivered a lecture on “Functional foods”. She answered the queries of the participants, some the participants also discussed their current research and related issues and Prof. Dhar satisfied the queries in very interactive manner.

Day 12: (06/10/2021)

In first session (10.30am - 12.00 noon) Dr. Prashant Kaweeshwar, Scientist at CGCOST, Raipur delivered talk on “Applications of Remote sensing and GIS”. In this talk he started fundamentally with discussion on GIS and its use in the field of Home Science. He also discussed the related matters and advancement in the field providing suitable examples. In the last segment of his presentation, he discussed the work done by his research group.

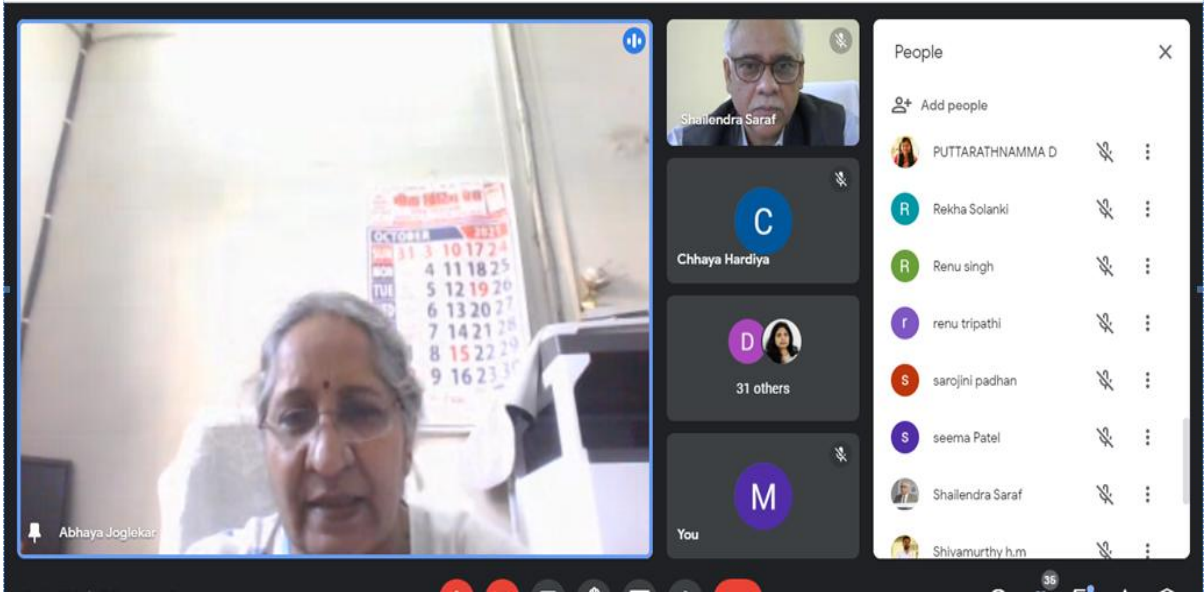


In second sessions (12:15pm- 13:45pm) the talk was delivered by Dr. Amit Dubey, Scientist F at CGCOST, Raipur (CG). He delivered talks on “How to apply for patent/introduction of IPR in Global Economic Scenario”. He started with the basic concepts of IPR, its importance, how to file for patenting. he also explained basic theories involved in the field. In the end thanking all the participants and wishing everyone a bright future.



VALEDICTORY FUNCTION

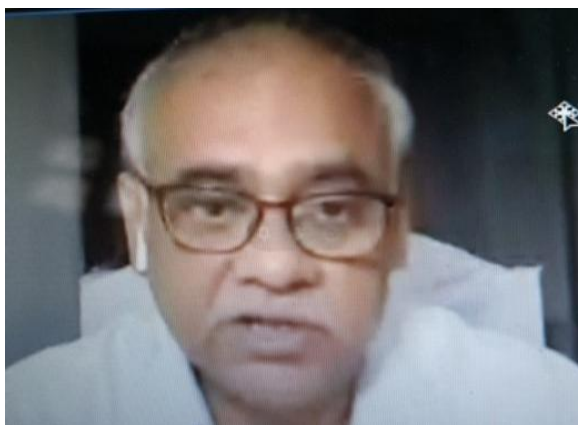
The Valedictory function was started at 5 pm in the esteemed presence of honourable vice chancellor Prof. K L Verma, Director Prof. Shailendra Saraf and Course co-ordinator Prof. Abhaya R. Joglekar. In the valedictory session the honourable vice-chancellor Prof. K L Verma, blessed the session and wished the organisers for successful completion of the course. Director Prof. Saraf wished all the participants for their excellent academic career. Three participants Dr. Deepali Rao, Dr. Chhaya Hardiya and Dr. Vaijayanthi Kanabur gave feedback on the entire course. The final report was presented by the co-ordinator Dr. Abhaya R.Joglekar. Dr. Arvind Agarwal, Assistant Professor, HRDC gave the vote of Thanks. Then all had a group photo.



ORGANISING TEAM



Prof. K. L. Verma
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India



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UGC - HRDC, PRSU, Raipur, Chhattisgarh
Tentative Time Table: Online Refresher Course in Home Science
Course Coordinator: Prof. Abhaya. R. Joglekar

	Session - I (10:30 to 12:00)		Session - II (12:15 to 13:45)		Session - III (14:15 to 15:45)		Session - IV (16:00 to 17:30)	
First Week								
Day 01 22.09.21	Registration, Inauguration & Induction	T E A B R E A K	Lecture 1 Dr. Aruna Palta Hon'ble Vice Chancellor Hemchand Yadav Durg University Title: Foods That Harm, Foods that Heal	L U N C H B R E A K	Lecture 2 Dr. Smita Pathak Prof. of Home Science Govt. M.H. College of H.Sc. Jabalpur, M.P Mo.-94258-64900 Email.- smitapathak65@gmail.com Title: Life Style Diseases	T E A B R E A K	Lecture 3 Dr. Archana Patki Prof. Head Psychology, V. Principal, Smt. Maniben M.P. Shah Womens' College, Mumbai Mo.-99209-29532 Email- archanapatki@yahoo.co.in Title: Life Skills	
Day 02 23.09. 21			Lecture 4 Dr. Archana Ainapure (Foods and Nutrition) Director, school of skill and professional University, Pune Mo.-7276053965 Email.- archana.ainapure@sspu.ac.in Title: Professional and Ethical Counselling		Lecture 5 Dr. S. Vali Retd. Prof. & Head Home Science RTM University Nagpur Mo.-98503-90552 Email- sabihavali@gmail.com Title: Functional foods and Nutraceutical		Lecture 6 Shri V.Y. Joglekar 'Yash' 27 Kholi Bilaspur Mo.-88897-24442 Email- shubhadavj@gmail.com Title: Stress Management	Lecture 7 Dr. C.D. Agashe Director education SOS Physical Education, Pt.R.S.U Mo.-94255-03354 Email- cagash@gmail.com Title: Health & Fitness
Day 03 24.09. 21			Lecture 8 Dr. Nimali Sing Prof. of Home Science Jaipur University, Rajasthan Mo.-81077-27577 Email.- nimalisingh@yahoo.co.in Title: Regional Diets & Its Importance		Lecture 9 Dr. Arvind Agrawal Prof. Pt. R S U, Raipur Mo.-94252-11940 Email- dr.arvind02@gmail.com Title: Origin of MOOCs and its importance		Lecture 10 Dr. Sunita Chandorkar Associate Prof. M.S. University Baroda, Gujarat Mo.-94263-66666 Email-suneeta.chandorkar- fn@msubaroda.ac.in Title: Food System	Lecture 11 Micro- teaching Dr. Nanda Gurwara Prof. of Home Science Govt. D.B. Girls' P. G. College, Raipur Mo.- 9301342762 Email.- nandagurwara@gmail.com
Day 04 25.09. 21			Lecture 12 Dr. Meenal Fadnis Prof of H.Sc Govt MLB Girls P.G. Auto College, Bhopal M.P. Mo.-94250-14879 Email- phadnis.meenal@yahoo.com.in Title: Research Paper Writing		Lecture 13 Prof. Jaya Tiwari Prof. of English Govt D.B.PG. College Raipur Mo.-94252-31575 Email- jaya@dbgirls.com Title: GENDER EQUALITY - Towards a world of equals		Lecture 14 Dr. Yash Patel Asstt. Prof. Atal Bihari University, Bilaspur Mo.-77488-00660 Email- Profykpattel@gmail.com Title: Food Processing	Lecture 15 Micro- teaching Dr. Nanda Gurwara Prof. of Home Science Govt. D.B. Girls' P. G. College, Raipur Mo.- 9301342762 Email.- nandagurwara@gmail.com
Day 05 27.09. 21			Lecture 16 Dr. Prashant Shrivastava Dean student Hemchand Yadav University, Durg Mo.-9827178920 Email.- prashantfulbright@gmail.com Title: how to get Research Project and fellowship		Lecture 17 Dr. Seema Mishra Prof., HOD, H.Sc. Govt. Bilaspur Girls'P.G.College Bilaspur Mo.-9826467890 Email.- drseema.mishra@gmail.com Title: Neutrigenics		Lecture 18 Seminar Dr. A. Poddar Prof of Life sciences SOS, Life Sciences, Pt RSU, Raipur Mo.-98266-43763 Email.-adinpod@gmail.com	Lecture 19 Seminar Dr. A. Poddar Prof of Life sciences SOS, Life Sciences, Pt RSU, Raipur Mo.-98266-43763 Email.-adinpod@gmail.com
Day 06 28.09. 21			Lecture 20 Dr. Meenal Fadnis Prof of H.Sc Govt MLB Girls P.G. Auto College, Bhopal M.P. Mo.-94250-14879 Email- phadnis.meenal@yahoo.com.in		Lecture 21 Dr. Saumitra Tiwari Prof of Food Tech Atal Bihari University Bilaspur Mo.-76920-02200 Email- profstiwari@gmail.com Title: Food Processing an Opportunity		Lecture 22 Seminar Dr. A. Poddar Prof of Life sciences SOS, Life Sciences, Pt RSU, Raipur Mo.-98266-43763 Email.-adinpod@gmail.com	Lecture 23 Seminar Dr. A. Poddar Prof of Life sciences SOS, Life Sciences, Pt RSU, Raipur Mo.-98266-43763 Email.-adinpod@gmail.com

Second Week

<p>Day 07 29.09. 21</p> <p>Lecture 24</p> <p>Dr. Renu Sharma Prof of Home Sc, Govt.P.G. College Sagaur, MP Mo.-9926551810 Email.- renubala_04@yahoo.in Title: New opportunities in the field of home science</p>	<p>Lecture 25</p> <p>Dr. Mitashree Mitra Retd.Prof &head SOS,Life sciences,PtRSU,Raipur Mo.-9425207354 Email id.- mitashree.mitra@gmail.com Title: Nutrition and health</p>	<p>Lecture 26</p> <p>Dr. Anjali Rajwade Prof. of H.Sc. Smt. RadhabaiGoenka for Women College, Akola, M.S. Mo.-98230-74777 Email- arajwade28@yahoo.com Title: Osteoporosis</p>	<p>Lecture 27</p> <p>Dr. Sylvia Subapriya Prof and Head Dept.of Food Science and Nutrition Avinashi Lingam University, Coimbatore, TN. Mo.-9944384137 Email.- sylvia_fsn@avinuty.ac.in Topic-Sports Nutrition</p>
<p>Day 08 30.09. 21</p> <p>Lecture 28</p> <p>Dr. U.K. Agrawal Prof. & Head Govt. DB Girls College Raipur C.G. Mo.-94252-11940 Email- ushakiran2308@gmail.com Title: Quality Research in Higher Education</p>	<p>Lecture 29</p> <p>Dr. Abha Khetrpal Principal DAV College for Girls Yamuna Nagar 135001 Haryana Mo.-92551-30100 Email- Abhaketarpal@rediffmail.com Title: New Opportunities in H.Sc.</p>	<p>Lecture 30</p> <p>Dr. Abha Tiwari Prof. of H.Sc. M.H. College H.S. Jabalpur Mo.-78285-15960 Email-abha31t@gmail.com Title: Old age Problems</p>	<p>Lecture 31</p> <p>Dr. A. Shrivastav Dean, School of Education Mahatama Gandhi Central University, Motihari, East Champaran, Bihar Mo.-99336-04836 Email- prof.asheesh@mgcub.ac.in Title: New Education Policy</p>
<p>Day 09 01.10. 21</p> <p>Lecture 32</p> <p>Dr. R. Balasasirekha Asstt. Prof. (FN) Avinashilingam University Coimbatore, Tamil Nadu Email – balasasirekha_fsn@avinuty.ac.in Mo.-99944-55914 Title: Microgreens New Opportunities</p>	<p>Lecture 33</p> <p>Dr. Pushpanjali Samantray Prof. of H.Sc., Berhampur University,Odisha Mo.-94380-42487,824917019 Email- puspanjali.bu@gmail.com Title: Role of Home Scientist in Sustainable development</p>	<p>Lecture 34 Project</p> <p>Dr. Mitashree Mitra Retd. Prof &head SOS, Anthropology, Pt RSU, Raipur Mo.-9425207354 Email id.- mitashree.mitra@gmail.com</p>	<p>Lecture 35 Project</p> <p>Dr. Mitashree Mitra Retd. Prof &head SOS, Anthropology, Pt RSU, Raipur Mo.-9425207354 Email id.- mitashree.mitra@gmail.com</p>
<p>Day 10 04.10. 21</p> <p>Lecture 36</p> <p>Dr. Pulkit Mathur Prof & Head F&N Lady Irwin College, Delhi Mo.-98100-30355 Email- Pulkit.mathur@lic.du.ac.in Title: Tackling the Source of Malnutrition-Building Sustainable and Resilient Food Systems in India"</p>	<p>Lecture 37</p> <p>Dr. Prabodh Halde President AFST Mumbai & Head Technical Regulatory Marico Ltd Mo.-98202-78746 Email.id- prabodh.halde@marico.com Topic- Scope for Food and Nutrition in light of Covid.</p>	<p>Lecture 38</p> <p>Dr. Vinod Patle SOS Computer PT PRSU Title: How to Create Effective ppt</p>	<p>Lecture 39 Project</p> <p>Dr. Mitashree Mitra Retd. Prof &head SOS, Anthropology, Pt RSU, Raipur Mo.-9425207354 Email id.- mitashree.mitra@gmail.com</p>
<p>Day 11 05.10. 21</p> <p>Lecture 40</p> <p>Dr. Indira Bishnoi Prof. of Home Science Banaras Hindu University Mo.-63873-97627, Email.- dr.indiravns@gmail.com Title: Various development programmes started by government of India in the last one decade</p>	<p>Lecture 41</p> <p>Dr. Bhawana Sharma Prof. of H.Sc M.H. College of H. Sc Jabalpur M.P. Mo.-94253-03739 Email- bhavanasharmajbp@gmail.com Title: Unconventional Fiber and its use in daily life</p>	<p>Lecture 42</p> <p>Dr. Tejpreet Kaur Kang Prof. of H.Sc., Punjab Agriculture University, Punjab Mo.- 98552-03033 Email- tejpreet@pau.edu Title: Restructuring Home Science</p>	<p>Lecture 43</p> <p>Dr. Pubali Dhar Prof of Home Science, Calcutta University, Kolkatta Mo.-9433122560 Email ID: pdhomesc@cal.univ.ac.in Topic – Functional foods</p>
<p>Day 12 06.10. 21</p> <p>Lecture 44</p> <p>Dr. Prashant Kaweshwar Scientist CGCOST, Raipur Mo.-9300202101 Email.- pkawishwar@gmail.com Topic- Applications of Remote sensing and GIS</p>	<p>Lecture 45</p> <p>Dr. Amit Dubey Scientist 'D' CGCOST, Raipur Mo-9406118999 Email. - amidubey@gmail.com Topic-How to apply for patent/introduction of IPR in Global Economic Scenario</p>	<p>Lecture 46</p> <p>Valedictory function</p>	

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5	Dr. Archana Patki Prof. Head Psychology, V. Principal, Smt. Maniben M.P. Shah Womens' College, Mumbai. Mo.-99209-29532 Email-archanaapatki@yahoo.com.in	6	Prof. Jaya Tiwari Prof. of English Govt D.B.PG. College Raipur Mo.-94252-31575 Email- jaya@dbgirls.com
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11	Shri V.Y. Joglekar 'Yash' 27 Kholi Bilaspur. Mo.-88897-24442 Email- shubhadavj@gmail.com	12	Dr. Yash Patel Asstt. Prof. Atal Bihari University, Bilaspur. Mo.-77488-00660 Email- Profykpattel@gmail.com
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15	Dr. Nimali Sing Prof. of Home Science Jaipur University, Rajasthan Mo.-81077-27577 Email.- nimalisingh@yahoo.co.in	16	Dr. Pubali Dhar Prof of Home Science Calcutta University, Kolkatta Mo.-9433122560, Email.-pdhomesc@cal.univ.ac.in

S. No.	Name	S. No.	Name
17	Dr. U.K. Agrawal Prof. & Head Govt. DB Girls College Raipur C.G. Mo.-94252-11940 Email- ushakiran2308@gmail.com	18	Dr. Mitashree Mitra Retd.Prof & head SOS,Life sciences,PtRSU,Raipur Mo.-9425207354 Email id.-mitashree.mitra@gmail.com
19	Dr. Sunita Chandorkar Associate Prof. M.S. University Baroda, Gujarat Mo.-94263-66666 Email-suneeta.chandorkar- fn@msubaroda.ac.in	20	Dr. Prabodh Halde President AFST Mumbai & Head Technical Regulatory Marico Ltd Mo.-98202-78746 Email.id- prabodh.halde@marico.com Topic- Scope for Food and Nutrition in light of Covid
21	Dr. Anjali Rajwade Prof. of H.Sc. Smt. Radhabai Goenka for Women College, Akola, M.S. Mo.-98230-74777 Email- arajwade28@yahoo.com	22	Dr. Arvind Agrawal Assistant Professor, HRDC, Pt. Ravishankar Shukla University, Raipur, (C.G.)
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25	Dr. R. Balasasirekha Asstt. Prof. (FN) Avinashi lingam University Coimbatore, Tamil Nādu Mo.-99944-55914 Email – balasasirekha_fsn@avinuty.ac.in	26	Dr. Amit Dubey Scientist 'D' CGCOST, Raipur Mo-9406118999 Email. - amidubey@gmail.com Topic-How to apply for patent/introduction of IPR in Global Economic Scenario
27	Dr. Abha Khetrapal Principal DAV College for Girls Yamuna Nagar 135001 Haryana Mo.-92551-30100 Email- Abhakhetarpal@rediffmail.com davcollegeynr@rediffmail.com	28	Dr. Pulkit Mathur Prof & Head F&N Lady Irwin College, Delhi Mo.-98100-30355 Email- Pulkit.mathur@lic.du.ac.in

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31	Dr. A. Shrivastav Dean, School of education Mahatama Gandhi Central University , Motihari, East Champaran, Bihar 845401 99336-04836 Email- profasheesh@mgcub.ac.in	32	Dr. Indira Bishnoi Prof. of Home Science Banaras HinduUniversity Mo.-63873-97627,9453047043 Email.-dr.indiravns@gmail.com
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35	Dr. Tejpreet Kaur Kang Prof. of H.Sc., Punjab Agriculture University, Punjab Mo.- 98552-03033 Email- tejpreet@pau.edu Title: Restructuring Home Science	36	Dr. A. Poddar Prof of Life sciences SOS, Life Sciences, Pt RSU, Raipur, (C.G.)
37	Dr. Nanda Gurwara Prof. of Home Science Govt. D.B. Girls' P. G. College, Raipur, (C.G.)		

Refresher Course – Home Science

(22.09.2021 – 06.10.2021)

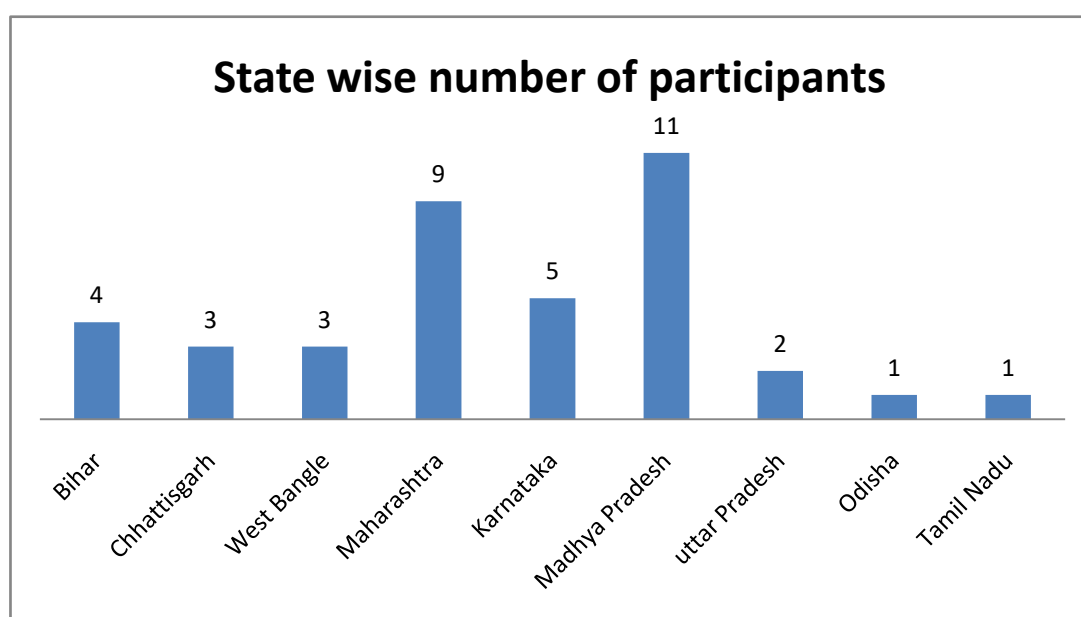
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20	Dr. Sarojini Padhan	Female	sarojinibbau@gmail.com	7681823031	AES College, Tarbha, Subarnapur, Odisha	Sambalpur University, Odisha
21	Dr. Seema Patel	Female	seemapatel.512@gmail.com	9977853512	Govt. Girls P.G. College, Rewa, (M.P.)	Awadhesh Pratap Singh University, Reewa, (M.P.)
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24	Dr Trushna s kalambe	Female	trushna.kalambe@gmail.com	09422736759	S Chandra Mahila Mahavidyalaya Amgaon Dist Gondia	Rtmnu Nagpu
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State wise number of participants



Refresher Course – Home Science
(22.09.2021 – 06.10.2021)
List of Chairperson and Reporter

S. No.	Date	Session I and II		Session III and IV	
		Chairperson Session I	Reporter Session II	Chairperson Session III	Reporter Session IV
1	22.09.2021	Ajay Kumar Patel	Aprajita Kumari	Dr. Apurba Giri	Bhavana K Khapaede
2	23.09.2021	Dipika Das	Dr. Abha Rani	Dr. Deepali Rao	Dr. Chhaya Hardiya
3	24.09.2021	Dr. Deepika Sethe	Dr. Gunja Panwar	Dr. Kumari Anupam Gupta	Dr. P. Karthika
4	25.09.2021	Dr. Pallavi Laldas Tagde	Dr. Priya Keshari	Dr. Priyanka Kumari	
5	27.09.2021	Dr. Rekha Solanki	Dr. Rekha Suryavanshi	Dr. Renu Singh	Dr. Sadhana Mandlaoi
6	28.09.2021	Dr. Sarojini Padhan	Dr. Seema Patel	Dr. Sunanda Biswas	Dr. Surekha N
7	29.09.2021	Dr. Trushna s kalambe	Dr. Usha Nanaji Rakhunde	Dr. Vijayanthi Kanabur	Dr. Vibha Chhatrapati Ghodkhande
8	30.09.2021	Dr. Vijaya Nilkanth Kannake	Girijamma Mulimani	Jyoti Alune	Madhuri Palle
9	01.10.2021	Mangala Durgadas Bansod	Minakshi Krushnarao Kanfade	Puttarathnamm a D	Renu Tripathi
10	04.10.2021	Sarika Udaysingh Gangwal	Shivamurthy H M	Shweta Naik	Sunita Arjunrao Rathod
11	05.10.2021	Aprajita Kumari	Ajay Kumar Patel	Bhavana K Khapaede	Dr. Apurba Giri
12	06.10.2021	Dr. Abha Rani	Dipika Das	Dr. Chhaya Hardiya	Dr. Deepali Rao

Assessment Criterion and Marking:

Multiple-choice objective tests:	30
Seminars / participant presentation:	15
Project / survey / others:	20
Micro-teaching / participation:	10
Holistic response:	25
Total:	100

Grading pattern (based on Marks)

A+ :	85 percent and above
A :	70 percent to less than or equal to 84 percent
B :	60 percent to less than or equal to 69 percent
C :	50 percent to less than or equal to 59 percent
F :	Below 49 percent

Those teacher participants who score F grade are required to repeat the program after a gap of one year without financial commitment to UGC-HRDC.

Online Delivery Platform: GOOGLE MEET



UGC Human Resource Development Centre
Pt. Ravishankar Shukla University, Raipur



ONLINE

Workshop in Leadership Development Program
February 07 to 12, 2022

Report

Name of Course/Program	Workshop in Leadership Development Program
Name of Contact person from HRDC	Dr. Arvind Agrawal Assistant Professor Human Resource Development Centre Pt. Ravishankar Shukla University, Raipur
Date of Course/Program	07/02/2022 to 12/02/ 2022
Name of Course Coordinator	Prof. C.D. Agashe School of Studies in Physical Education Pt. Ravishankar Shukla University, Raipur
Theme of Course/Program	-
Number of Participants	28
State wise number of participants:	Chhattisgarh-23, Gujarat-02, Maharashtra-02, Haryana-01
Gender wise number of participants:	Male: 21, Female: 07
Number of Resource Persons	12
Signature of the Course Coordinator	
Online Platform	
Google Meet	meet.google.com/ iod-eimo-ubp

Organizing Team



Prof. K. L. Verma
Vice Chancellor
Pt. RSU, Raipur (C.G.)



Prof. Shailendra Saraf
Director
HRDC, Pt. RSU, Raipur (C.G.)



Prof. C.D. Agashe
S.o.S. in Physical Education,
Pt. Ravishankar Shukla University,
Raipur (C.G.)



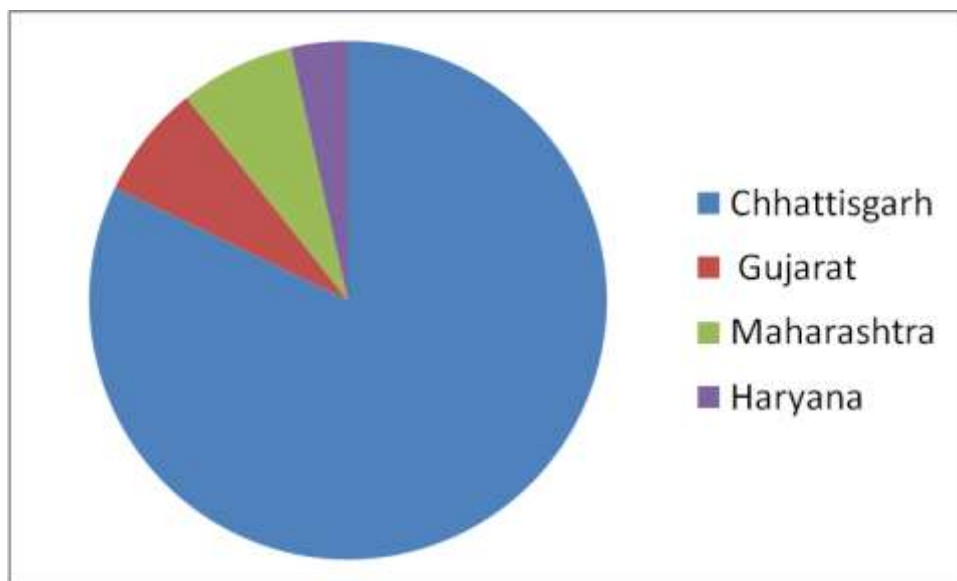
Dr. Arvind Agrawal
Assistant Professor
HRDC, Pt. RSU, Raipur (C.G.)

Workshop in Leadership Development Program

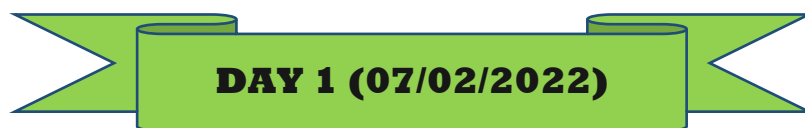
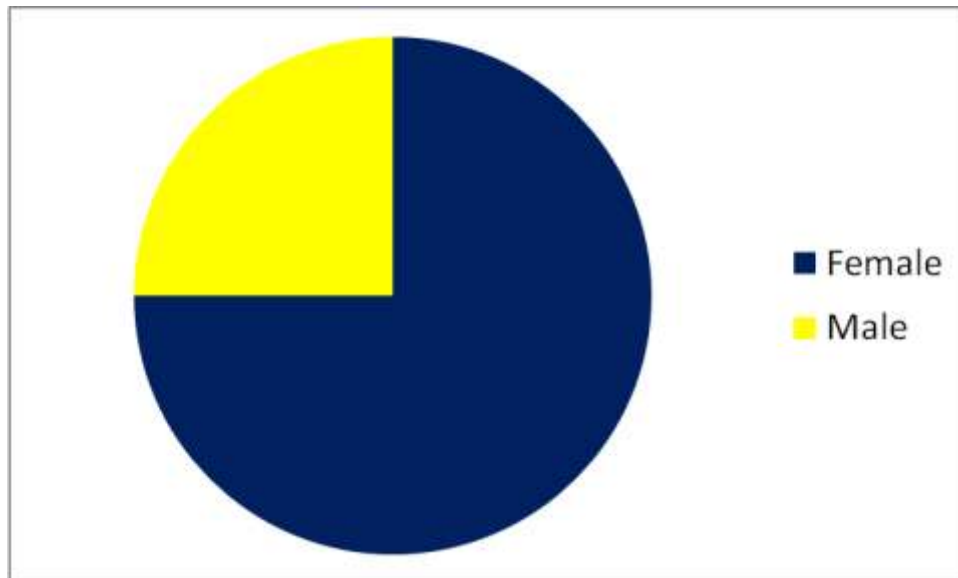
(07/02/2022 - 12/02/2022)

A Workshop in the “Leadership Development Program” was organized by Human Resource Development Centre, Pt. Ravishankar Shukla University Raipur, in collaboration with the School of Studies in Physical Education, Pt. Ravishankar Shukla University, Raipur from 07th -12nd, February 2022. The course was attended by Twenty Eight registered participants from across the country. 05 outstations and 23 local participants attended the same. 12 resource persons delivered lectures.

State wise Participants



Gender Wise Participants



Session I (10:30-12:00) Inaugural Function

The Program commenced on the Google Meet Platform with the Inaugural Function at 10.00 a.m. with Director - **Prof. Shailendra Saraf, Director, Human Resource Development Center, Pt. Ravishankar Shukla University, Raipur** and Course Coordinator **Prof. C.D. Agashe, School of Studies in Physical Education, Pt. Ravishankar Shukla University, Raipur**. The Program commenced by welcoming participants and Guests by Dr. Arvind Agrawal (HRDC, Pt RSU), which was followed by a brief introduction of each participant, an introduction about the course by the Course Coordinator and an Address by the Director HRDC-PtRSU.

Director HRDC, who congratulated the course Coordinator for having a very good panel of experts across the country for the Workshop. The inaugural program ended with a vote of thanks by Dr. Arvind Agrawal.

Session II (12:10 to 13:40)

- 1. Prof. Ashish Srivastava of Institute of Management, Pt. Ravishankar Shukla University, Raipur, spoke on Leadership in Higher Education.**



He graced the session with his extremely relevant address on Leadership in Higher Education focusing on authority responsibility and accountability in formal and informal organisations. Sir has cleared the doubts on differences between managership and leadership, the importance of effective communication for leadership and components of leadership in the contemporary scenario. He has rightly talked about the effectiveness of leadership skills and qualities of effective presentation and its applicability in the present situation

Session III (14:20 to 15:50) & Session IV (16:00 to 17:30)**2.**

After the lunch break, given a task in groups by Prof. C.D. Agashe, gave 2 hours for the work and all groups gave a presentation about the given task. All participants are benefited from these sessions, feedback link generated after the session

DAY 2 (08/02/2022)**Session I (10:30 to 12:00)**

3. Dr. J.C. Ajwani, Retd. Principal Govt. Arts and Commerce Girls College, Devendra Nagar, Raipur

Discussed personal problem of leadership. He has rightly talked about the problem and solution related to leadership and valuable information and also its applicability in the present situation

Session II (12:10 to 13:40)

4. Prof. Sanjeev Sonwane Director of **UGC-HRDC, SBP University, Pune**, spoke on leadership development. He explained all the things very well.

Session III (14:20 to 15:50)

5. Dr. Sanjay Kumar of **School of Studies in Computer Science, Pt. Ravishankar Shukla University, Raipur** discussed in this session talked about Communication, Types of communication.

Session IV (16:00 to 17:30)

6. After the lunch break, given task in groups by Prof. C.D. Agashe, he gave 3 hours for the work and all groups gave a presentation about a given task.

DAY 3 (09/02/2022)**Session I (10:30 to 12:00)**

7. Dr. Basumati Nadig, of **School of Studies in Literature and Languages, Pt. Ravishankar Shukla University, Raipur** explained different aspects of communication like verbal, non-verbal, written communication, Effective Administration, Devotion, Determination and Decisiveness of Leadership, 12'C of Communication and ABC of Teaching and Learning etc.

Session II (12:10 to 13:40)

8. Prof. Promila Singh, of **School of Studies in Psychology, Pt. Ravishankar Shukla University, Raipur**. She graced the session with her extremely relevant address on leadership quality, motivation, power of the leader, types of leader, quality of leader

etc.

Session III (14:20 to 15:50)

9. Dr. Sanjay Kumar of **School of Studies in Computer Science, Pt. Ravishankar Shukla University, Raipur**. He delivered a great lecture and explained it very well. He addressed cybernetic security including types of threats and

prevention captcha test, social engineering spoofing, denial of

service attack, password protection, WhatsApp Facebook, Aadhaar, recent mobile security awareness, Wi-Fi, Bluetooth, Google Play Store security Awareness of online payment, digital payment, Firewall IT act in India, online complaint etc.

Session IV (16:00 to 17:30)

- 10.** Session conducted by Dr C D Agashe Pt. Ravishankar Shukla University Raipur. In this session firstly present presentation given by participants of each group and at last presentation given by Prof. C.D. Agashe. All participants are benefited from these sessions feedback link is generated after the session

**DAY 4 (10/02/2022)****Session I (10:30 to 12:00)**

- 11. Dr. Suparna Sen Gupta** of **Pt. Sundarlal Sharma Sharma Library, Pt. Ravishankar Shukla University, Raipur** delivered a lecture on E-Resources for higher education: Challenges of multimedia, Academic leadership, E-sources-objectives, types, advantages, disadvantages, accuracy, coverage, strategies. Truncation, advanced search techniques, E- pathshala, shodh ganga, shodh gangotri national digital library etc.

Session II (12:10 to 13:40)

- 12. Prof. R.D. Helode**, Rtd. Professor of School of Studies in Psychology, Pt. Ravishankar Shukla University, Raipur, elaborated leadership in education, Academic leadership, personality and intelligence etc. and gave activity based example that was very interesting. He explained all the things very well.

Session III (14:20 to 15:50) & Session IV (16:00 to 17:30)**13.**

Hands-on Experience

DAY 5 (11/02/2022)**Session I (10:30 to 12:00)**

- 14. Dr. Gagan Raj Gupta**, of **IIT, Bhilai** expressed his views on Data Science for education leadership: data analysis process, exploring the data, visualising the result, data science workflow, basic statistics after analysis logs and covid-19 and online learning: A visualization of preferences of students.

He has cleared the doubt related to the personal problem of Data science. Sir has rightly talked about the problem and solution related to data science and valuable information and also its applicability in the present situation.

Session II (12:10 to 13:40)

- 15. Prof. R.D. Helode**, Retd. Professor of School of Studies in Psychology, Pt. Ravishankar Shukla University, Raipur, elaborated leadership in teacher through personality improvement- it can be modified, the definition of personality, model of personality, child ego, adult ego, parents ego explain with examples that were very interesting.

Session III (14:20 to 15:50) & Session IV (16:00 to 17:30)

- 16. Dr C D Agashe** Pt. Ravishankar Shukla University Raipur. In this session firstly presentation was given by all participants individually about SWOC analysis. All participants are benefited from these sessions' feedback link generated after the session.

**DAY 6 (15/01/2022)****Session I (10:30 to 12:00)**

17. Prof. Balwant Singh Thakur of **School of Studies in Mathematics, Pt. Ravishankar Shukla University, Raipur** delivered a lecture on Feedback-leadership, what is good leadership, history of feedback, a form of feedback, types of feedback, effective feedback, characteristics of effective feedback and guideline to improve feedback giving skills.

He has cleared the doubt related to the personal problem of feedback. Sir has rightly talked about the problem and solution related to feedback and valuable information and also its applicability in the present situation.

Session II (12:10 to 13:40)

18. Prof. R.G. Bhawe, Retd. Principal, Girls college, Mahasamund

He discussed motivational factors in a leader, communication personality, time management, effective personality, physiological needs (primary and secondary), the responsibility of a leader. He explained all the things very well.

Session III (14:15 to 15:00)

Prof. C D Agashe Pt. Ravishankar Shukla University Raipur. In this session, he talks about teaching skills, writing skills, learning skills, reading skills and SWOC analysis. All participants are benefited from these session's feedback links generated after every session.

Session IV (16:00 to 17:30) Valedictory Function

Prof K L Verma, Hon'ble Vice-Chancellor of Pt. Ravishankar Shukla University, Raipur, was the **Chief Guest** at this function. **Prof Shailendra Saraf**, Director, HRDC, Pt. Ravishankar Shukla University, Raipur, was the **Chairperson**. **Prof C.D. Agashe**, School of Studies in Physical Education, Pt. Ravishankar Shukla University, Raipur, was present as **Course Coordinator**.

Course coordinator, Prof C.D. Agashe, presented a brief report of this Workshop. Thereafter, the opportunity was given to the participants for providing their feedback, they all appreciated the overall organization, contents, selection of resource persons from premier institutions and execution of the Workshop. Chairperson, Professor Shailendra Saraf addressed the function, he assured us that HRDC will continue to organize such a good Workshop. He congratulated Professor C.D. Agashe, for the successful conduction of the Workshop. Honourable VC Prof. K. L. Verma, blessed all the participants with his valuable words and congratulated all the participants for completing the workshop and gave best wishes for implementing and sharing the knowledge learnt in the workshop.

In the last, Dr. Arvind Agrawal, Assistant Professor, HRDC was given a vote of thanks to the guests, participants and everyone involved in this workshop.



UGC Human Resource Development Centre
Pt. Ravishankar Shukla University, Raipur-492010 (C.G.)
Workshop in Leadership Development Program
(07/02/2022 to 12/02/ 2022)



Time Table

	Session - I (10:30 to 12:00)		Session - II (12:15 to 13:45)		Session - III (14:15 to 15:45)		Session - IV (16:00 to 17:30)
Day 01 07.02.2022	Registration, Inauguration & Induction	T E A B R E A K	Dr. Ashish Shrivastava Institute of Management Pt. RSU Raipur C.G.	L U N C H B R E A K	Prof. CD Agashe Director Institute of Teacher Education Pt. RSU Raipur C.G.	T E A B R E A K	Prof. CD Agashe Director Institute of Teacher Education Pt. RSU Raipur C.G.
Day 02 08.02.2022	Prof. Ajwani Retd. Principal Govt. Girls College Devendra Nagar, Raipur		Prof. Sanjeev Sonwane HOD, Deptt. of Education Savitribai Phule University Pune		Prof. Sanjay Kumar Head, SoS in Computer Science Pt. RSU Raipur C.G.		Hands-on Experience
Day 03 09.02.2022	Dr. B. Nadig ITE Pt. RSU Raipur C.G.		Prof. Promila Singh Former Head, SoS in Psychology Pt. RSU Raipur C.G.		Prof. Sanjay Kumar Head, SoS in Computer Science Pt. RSU Raipur C.G.		Seminar Presentation by Participants
Day 04 10.02.2022	Dr. Supem Sen Gupta Librarian Pt. Sundarlal Sharma Library, Pt. RSU Raipur C.G		Prof. R.D. Helode Former HOD, SoS in Psychology Pt. RSU Raipur C.G		Hands-on Experience		Hands-on Experience
Day 05 11.02.2022	Prof. Gaganraj Gupta IIT, Bhilai		Prof. R.D. Helode Former HOD, SoS in Psychology Pt. RSU Raipur C.G.		Hands-on Experience		Hands-on Experience
Day 06 12.02.2022	Prof. B.S. Thakur SoS Mathematics, Pt. RSU Raipur C.G		RG Bhaye Rtd. Prin. Girls College Mahasamund		Valedictory Function		

Date: 07/02/2022, Monday

Day: 01

Schedule	
Session-I	Registration, Inauguration & Induction
10:30 -12:00	
12:00 -12:10	Break
Session-II	Lecture-01: Leadership in Higher Education
12:10 -13:40	Prof. Ashish Shrivastava Institute of Management Pt. Ravishankar Shukla University, Raipur E-mail: ashish_1k@rediffmail.com
13:40 -14:20	Break
Session-III	Group activity by Participants
14:20 -15:50	
15:50 -16:00	Break
Session-IV	Group activity by Participants
16:00 -17:30	

Session	Chairperson	Reporter
I & II	Mrs. Gunjan Sharma	Dr. Swati Srivastava
III & IV	Dr. Sukhbir Singh	Awam Barat Singh Diwan

Date: **08/02/2022, Tuesday**Day: **02**

Schedule	
Session-I 10:30 -12:00	Lecture-03: Development of Leadership Dr. J.C. Ajwani Rtd. Principal, Govt. Girls College, Devendranagar, Raipur
12:00 -12:10	Break
Session-II 12:10 -13:40	Lecture-04: Area of Academic Leadership Prof. Sanjeev Sonwane HOD, Deptt. of Education Savitribai Phule University Pune E-mail: sonsanjeev63@gmail.com
13:40 -14:20	Break
Session-III 14:20 -15:50	Lecture-05: Cyber Crime-I Prof. Sanjay Kumar School of Studies in Computer Science Pt. Ravishankar Shukla University, Raipur E-mail: sanraipur@rediffmail.com
15:50 -16:00	Break
Session-IV 16:00 -17:30	Group activity by Participants

Session	Chairperson	Reporter
I & II	Dr. Alok Kumar Singh	Dr. Ayaz Ahmed Khan
III & IV	Yogesh Kumar	Dr. Arun Kumar Nayak

Date: **09/02/2022, Wednesday**Day: **03****Schedule**

Session-I **Lecture-06: Teachers As A Leader: Role of Effective Communication**
10:30 -12:00

Dr. B. Nadig

ITE

Pt. RSU Raipur C.G.

12:00 -12:10 **Break****Session-II** **Lecture-07:****12:10 -13:40****Prof. Promila Singh**

Rtd. Professor

School of Studies in psychology

Pt. Ravishankar Shukla University, Raipur

E-mail:singhpromi@gmail.com

13:40 -14:20 **Break****Session-III** **Lecture-08: Cyber Crime -II****14:20 -15:50****Prof. Sanjay Kumar**

School of Studies in Computer Science

Pt. Ravishankar Shukla University, Raipur

E-mail: sanraipur@rediffmail.com

15:50 -16:00 **Break****Session-IV** **Group activity by Participants****16:00 -17:30**

Session	Chairperson	Reporter
I & II	Dr. Madan Lal Kurre	Dr.Ritesh Mishra
III & IV	Vilas Nabhaji Ghode	Mr. Gyanendra Bhai

Date: **10/02/2022, Thursday**Day: **04****Schedule**

Session-I
10:30 -12:00 **Lecture-09: E-Resources**
Dr. Suparna Sen Gupta
Librarian
Pt. Sundarlal Sharma Library
Pt. Ravishankar Shukla University
Raipur

12:00 -12:10 **Break**

Session-II
12:10 -13:40 **Lecture-10: Leadership**
Prof. R.D. Helode
Professor (Retd.)
SoS in Psychology
Pt. Ravishankar Shukla University
Raipur

13:40 -14:20 **Break**

Session-III
14:20 -15:50
 &
Session-IV
16:00 -17:30

Habds-on-Experience

Session	Chairperson	Reporter
I & II	Ram Kumar Thakur	Dr. Ujjwala Dhananjay Sadaphal
III & IV	Dr. Bogy Shankar Rao	Mrs. Richa Sharma

Date: **11/02/2022, Friday**Day: **05**

Schedule	
Session-I 10:30 -12:00	Lecture-11:Leadership Prof. Gaganraj Gupta IIT, Bhilai
12:00 -12:10	Break
Session-II 12:10 -13:40	Lecture-12: Leadership Prof. R.D. Helode Professor (Retd.) SoS in Psychology Pt. Ravishankar Shukla University Raipur
13:40 -14:20	Break
Session-III 14:20 -15:50	Hands-on-Experience
15:50 -16:00	Break
Session-IV 16:00 -17:30	Hands-on-Experience Dr. SahadeoPadhye

Session	Chairperson	Reporter
I & II	Dr. Vinay Kumar Yadav	Dr. Karmishta Shambharkar
III & IV	Dr. Virendra Kumar Singh	Pramesh Kumar Khare

Date: **12/02/2022, Saturday**Day: **06****Schedule**

Session-I **Lecture-13:Feedback: leadership**
10:30 -12:00 **Prof. B.S. Thakur**
 School of Studies in Mathematics

12:00 -12:10 **Break**

Session-II **Lecture-14:Communication**
12:10 -13:40 **Prof. R.G. Bhavel**
 Rtd. Principal Govt. Girls College, Mahasamund












13:40 -14:20 **Break**

Session-III **Hands-on-Experience**
14:20 -15:00




Session-IV **Valedictory Function**
16:00 -17:30

Session	Chairperson	Reporter
I & II	Dr. Pramod Kumar Tiwari	Dr. Kuldeep Dubey
III & IV	Dr. Ajay Kumar Lanjewar	Patel Aryan Kanjibhai

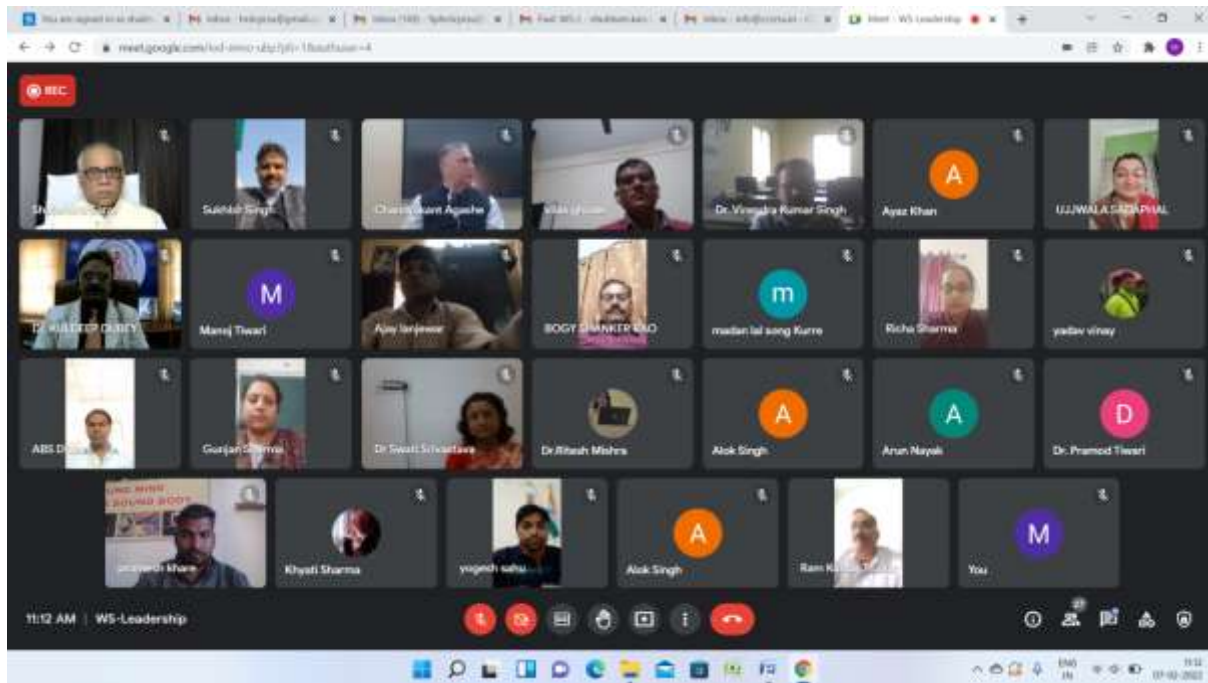
List of Participants

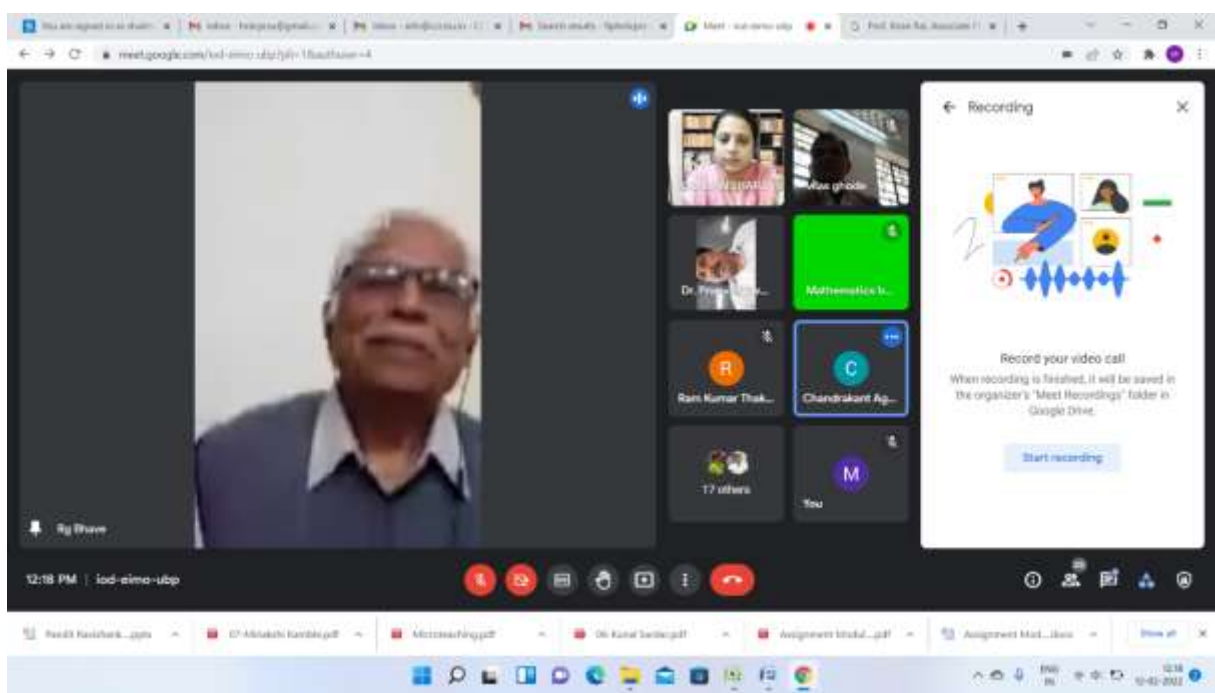
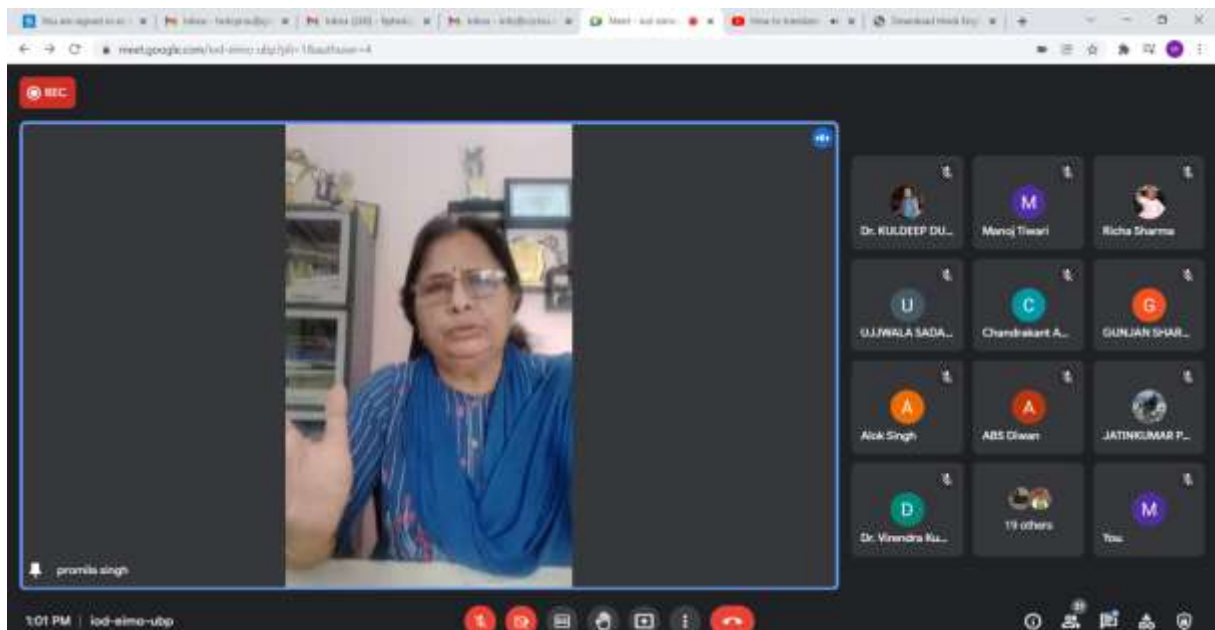
Sr. No.	Name of Participants	Email Address	Photo	Mobile No.	Designation	Subject	Name of College/Institution	Name of University
01.	Mrs. Gunjan Sharma	gunjanshama0712@gmail.com		9907718875	Assistant Professor	Education	Pragati College Chobey Colony, Raipur CG	Pt.RSU, Raipur
02.	Dr. Swati Srivastava	swatikhare2002@gmail.com		7987078356	Assistant Professor	Education	Pragati College Chobey Colony, Raipur CG	Pt. Ravishankar Shukla University
03.	Dr. Sukhbir Singh	sukhbirkhanda@gmail.com		9991091900	Assistant Professor	Physical Education	A.I. JAT H.M. College, Rohtak	M.D. University, Rohtak
04.	Awam Barat Singh Diwan	diwanabs.18@gmail.com		9826847243	Assistant Professor	Physical Education	Office of Dean Students Welfare, Dau Shri Vasudev Chandrakar Kamdhenu Vishwavidyalaya, Durg	
05.	Dr. Alok Kumar Singh	aloksingh1015@gmail.com		8109140894	Assistant Professor	Physical Education	MATS School of Physical Education MATS University Raipur Chhattisgarh	
06.	Dr. Ayaz Ahmed Khan	ayaz27776@gmail.com		9329095610	Assistant Professor	Physical Education	MATS School of Physical Education MATS University Raipur Chhattisgarh	
07.	Yogesh Kumar	ysahuw0107@gmail.com		9575411014	Assistant Professor	Yoga	MATS University	
08.	Dr. Arun Kumar Nayak	arunnayak2008@gmail.com		9098167330	Sports Officer	Physical Education	RMD College of Agriculture & Research Station Ajirma Ambikapur, 497001	Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.)
09.	Dr. Madan Lal Kurre	kurre.madan@gmail.com		9479230098	Sport Officer	Physical Education (Sports)	IGKV, Shaheed Gundadhur College of Agriculture & Research Station - jagdalpur , Chhattisgarh	Indira Gandhi Agriculture University Raipur, Chhattisgarh
10.	Dr. Ritesh Mishra	dr.riteshmishra77@gmail.com		9407706308	Associate Professor	Education	Department of Education, Dr.C.V. Raman, university, Kota, Bilaspur	Dr.C.V.Raman, university, Kota, Bilaspur
11.	Vilas Nabhaji Ghode	vilasghode@rediffmail.com		9422601170	Associate Professor	Social Work	B.P. National Institute of Social Work	Rashtrasant Tukadoji Maharaj Nagpur University

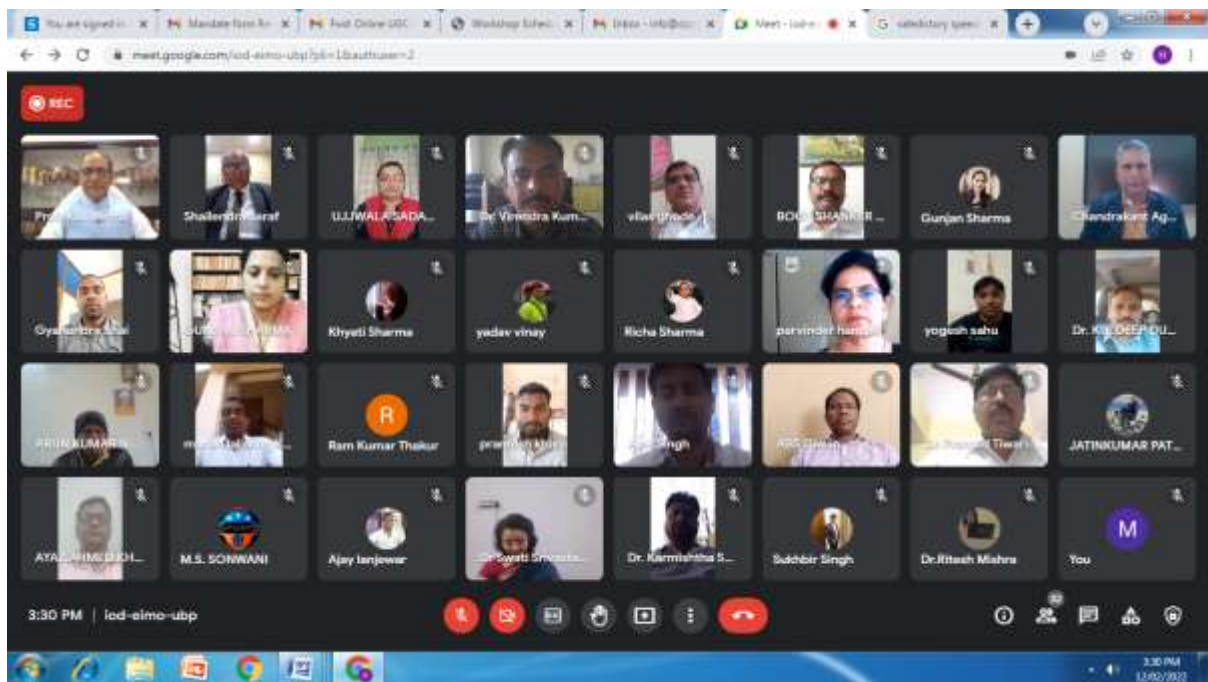
12.	Mr. Gyanendra Bhai	gyanendrampe d14@gmail.com		8770989461	Assistant Professor	Physical Education	Vipra Arts Commerce and Physical Education College Raipur C.G.	Pt.R.S.U. Raipur C.G.
13.	Dr. Ram Kumar Thakur	ram.mipe@gmail.com		9827405671	Sports Officer	Physical Education	O/o DSW, IGKV, Raipur	Indira Gandhi Krishi Vishwavidyalay, Raipur C.G.
14.	Dr. Ujjwala Dhananjay Sadaphal	ujjwala.sadaphal@gmail.com		7875087903	Associate Professor	Education	Swavalambi College of Education, Wardha	Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
15.	Dr. Bogy Shanker Rao	bogy196900@gmail.com		9827180186	Sports Officer	Physical education	Govt E V P G College Korba Chhattisgarh	Atal Bihari Bajpai University Bilaspur Chhattisgarh
16.	Mrs. Richa Sharma	nupursharma2011982@gmail.com		7000062694	Asst. Professor	Education	Netaji Subhas College, Abhanpur, Dist- Raipur(CG)	Pt. Ravishankar Shukla University Raipur
17.	Dr. Vinay Kumar Yadav	yadavvinay121986@gmail.com		9179123918	Asst. Professor	Physical Education	Netaji Subhas College Abhanpur, Dist. - Raipur(CG)	Pt. Ravishankar Shukla University Raipur(CG)
18.	Dr. Karmishtha Shambharkar	me.karmishtha@gmail.com		9301705005	Sports Officer and HOD in physical education department	Sports and sports psychology	Govt. D.B Girls PG college, Raipur CG	Pt. Ravishankar Shukla university, Raipur CG
19.	Dr. Virendra Kumar Singh	sukritivksingh@gmail.com		8319342450	Sports Officer / Asst. Professor	Physical Education	Shri Shankaracharya Mahavidyalaya, Bhilai (C.G.)	Hemchand Yadav University Durg (C.G.)
20.	Pramesh Kumar Khare	prameshkhare78@gmail.com		7804045578	Asst.Prof.	Physical Education	Shri Rawatpura Sarkar institute of Physical Education Naya Raipur	Pt.Ravishankar Shukla University, Raipur
21.	Dr. Pramod Kumar Tiwari	pramod23575@rediffmail.com		9826208979	Assistant Professor	Physical Education	Seth RCS Arts & Commerce College Durg	Hemchand Yadav Vishwavidyalay Durg
22.	Dr. Kuldeep Dubey	kuldeep.dubey05@gmail.com		9826515377	Principal	Physical Education	St. Vincent Pallotti College Raipur	Pt.Ravishankar Shukla University, Raipur
23.	Dr. Ajay Kumar Lanjewar	ajaylanjewar73@gmail.com		9893518360	Assistant professor	Physical education	Seth R.C.S. Art's & Commarce college Durg (c.g)	Hemchand Yadav Vishwavidyalay Durg
24.	Patel Aryan Kanjibhai	aryanpatelviky1982@gmail.com		9974543813	Assistant professor	Mathematics	M.N. COLLEGE, VISNAGAR	Hemchandracharya a North Gujarat University, Patan

25.	Dr. Khyati Sharma	khyati.sharma58@gmail.com		8349484583	Principal	Physical Education	Shri Rawatpura Sarkar Institute of Physical Education Naya Raipur	Pt. Ravishankar Shukla University Raipur (CG)
26.	Patel Jatinkumar Somabhai	jspatel74@gmail.com		9428224799	Associate Professor	Mathematics	M.N. COLLEGE, VISNAGAR	Hemchandracharya North Gujarat University, Patan
27.	Mordhwaj Sonwani	mori.sonwani15@gmail.com		9770184951	Sports officer	Physical Education	Govt. Lal Chakradhar Sah college Ambagarh Chowki C. G.	Hemchand Yadav University Durg (Chhattisgarh)
28.	Dr. Parvinder Hanspal	Dr.parvinderhanspal@gmail.com		9584683786	Professor	Education	MATS School of Education, MATS University, Raipur	

Glimpses







Flyer



Human Resource Development Centre



Pt. Ravishankar Shukla University, Raipur-492 010 (Chhattisgarh)

Organized by

HRDC
PRSU
Raipur - 492010
Chhattisgarh

Workshop

Leadership Development Program
(07.02.2022 to 12.02.2022)

Course Coordinator

Prof. C.D. Agashe
SoS in Physical Education
Pt. Ravishankar Shukla
University, Raipur-492010

The UGC-HRDC, PRSU, Raipur, Chhattisgarh is organizing an Online Workshop in Leadership Development Program during February 07-12, 2022 between 10:30 to 17:30 for college and university teachers.

Objective: Leadership can be referred to as the capacity of an individual to influence and guide the other members of the institution or organization. Leadership qualities encompass qualities such as self-confidence, communication skills, creativity, innovative approach, risk-taking ability and openness to experience. Great leaders create a vision then pursue others to work towards achieving the goals by directing and inspiring the team members. The team leader motivates the other members to achieve the set goals. Like other fields, the scenario in higher education is changing rapidly with a more entrepreneurial approach being advocated regarding the way students learn or instructors mode of teaching or administrators on and off-campus responsibilities. In recent times the trend of higher education has changed with challenges to fulfil the need of students from diverse cultures, raising funds, prepare graduates to suit the need of the industries. It is even more important for leaders to foster the future success of institutions by working across departments. Hence leadership development program for administrators means a lot in challenging trends in higher education

Salient Features of the Course: The aims of the leadership development program will include

- ◆ Outlining leadership goals and their objectives.
- ◆ Discussing various leadership styles.
- ◆ Defining and discussing various leadership skills namely teamwork, communication, emotional intelligence etc.
- ◆ Group based problem solving to understand group dynamics.
- ◆ Emotional intelligence based activities to understand and manage the emotions.
- ◆ Understanding the value of communication skills, time management, motivation, stress management, feedback and delegation in leadership
- ◆ Financial insight for creating a financial plan and preparing budgets.
- ◆ Collaborative leadership
- ◆ Knowhow about organizing leadership training and mentoring program for faculty and academic staff.
- ◆ Know how about understanding and using data for strategic planning.
- ◆ Knowhow about developing action and communication plan for better management of the institution.
- ◆ Knowhow about multicultural perspectives in higher education institutions and the need of the diverse group.
- ◆ Insight about intellectual curiosity in the form of new disciplines, information and need of the diverse group.

Target Group: All regular faculties of different disciplines of the Universities/ Colleges that are included under section 2 (f) of the UGC act. The teachers of the colleges affiliated with the University for at least five years can also participate.

Mode of Delivery: Live web session, Discussion and Assignment on Google Meet/ Classroom/Jitsi.

Requirement for the Course: Desktop/ Laptop/ Smartphone with good Internet Connectivity (Webcam, Microphone, headphones and Multimedia enabled).

Email: hrdcprsu@gmail.com; dr.arvind02@gmail.com

Call: 0771-2263828; 9754233057

Registration/ Application Link: <https://forms.gle/MASMJVRVz9Fagtyn8>

Registration fee: Rs. 1000.00 (non-refundable), to be paid online in Director, ASC bank account number - 30644576182; IFSC code: SBIN0003739, State Bank of India, PRSU, Raipur.

Number of Participants: Minimum 20 and Maximum 40 on a first come first serve basis.



UGC - Human Resource Development Centre

Pt. Ravishankar Shukla University, Raipur



Organized

ONLINE REFRESHER COURSE IN HISTORY

18 - 30 OCTOBER 2021

REPORT

Name of Course/Program:	Online Refresher Course in History.
Name of Contact person from HRDC:	Dr. Brijendra Pandey
Date of Course/Program:	18/10/2021 to 30/10/2021
Name of Course Coordinator:	Dr. Shampa Choubey
Theme of Course/Program:	On the occasion of the 75th Independence year of India's freedom, we are studying our history with a new perspective, new syllabus and guidelines, suggested by the UGC this year in order to enhance the knowledge of History for research & learn about the new avenues to develop History.
Number of Participants:	30
State wise number of participants:	West Bengal: 10 Chhattisgarh: 08 Maharashtra: 06 Karnataka: 02 Madhya Pradesh: 01 Bihar: 01 Odisha: 01 Rajasthan: 01
Gender wise number of participants:	Male: 21 Female: 09
Number of Resource Persons:	30
Name and Signature of Course Coordinator	
Dr. Shampa Choubey (Course Coordinator) Head of Department (History) D. B. Girls PG college Raipur (C.G)	

COORDINATORS DESK



Dr. Shampa Choubey
(Course Coordinator)
Head of
Department(History)
D.B. Girls PG college
Raipur(C.G)

Historian James Grant Duff once wrote, “Many of the advances in the sciences that we consider today to have been made in Europe were made in India centuries ago.”

‘History is the study of people, actions, decisions, interactions and behaviours’

History is the study of humans’ progress in a society. We can’t understand our present, neither we can better our future without the knowledge of history therefore it is included in our syllabus. The learning of history inculcates in the learner a sense of love & pride for the motherland. Knowledge of History helps in developing an emotional unity by breaking the barriers of caste creed & languages. History itself is a repository of knowledge & there is a wide range of scope for the exploration of the subject through the study & research in personalities, ideas, traditions, cultures, national institutions & many more.

The study of history is also significant because it develops the feeling of patriotism & universal brotherhood. It is the mother of all education. The evolution of history helps in nurturing human life.

‘History is fundamentally a problem-solving discipline’

History is narratives. From chaos comes order. We seek to understand the past by determining and ordering ‘facts’; and from these narratives we hope to explain the decisions and processes which shape our existence.

History makes man mature, intelligent & experienced. History enables man to build the present on the foundation of the past, & guide the future. The lessons learnt from history can’t be learnt from other subjects. History has its own importance as professional, ethical, national & international, disciplinary, cultural. Humans should always be ready to protect their history & culture. Sarvepalli Radhakrishnan had too said that history is the memory of a nation.

History’s primary purpose is to stand at the centre of diverse, tolerant, intellectually rigorous debate about our existence: our political systems, leadership, society, economy and culture. However, open and free debate – as in so many areas of life – is too often lacking and it is not difficult to locate the cause of this intolerance.

AzadiKa Amrit Mohotsav is being celebrated all over India to commemorate 75 years of progressive India and the glorious history of its people, culture and achievements. Azadika Amrit Mahotsav is an embodiment of all that is progressive about India’s socio-cultural, political and economic identity.

Refresher Course in History.

(18.10.2021 - 30.10.2021)

A Refresher Course in History was organized by Human Resource Development Centre, Pt. Ravishankar Shukla University Raipur, in collaboration with Department of History, Govt. Dudhadhari Bajrang Girls Postgraduate College, Raipur, Chhattisgarh (An Autonomous Institution). The course was attended by thirty participants from across the country. The lectures in the course were delivered by many renowned & world acclaimed eminent personalities from across the country. There were 30 resource persons in the course.

Objective: On the occasion of the 75th Independence year of India's freedom, we are studying our history with a new perspective with respect to the new syllabus and guidelines, suggested by the UGC this year. All over the world the mode of education has become online due to the pandemic; therefore the course is designed to enhance the knowledge of the subject of History in research & to learn about the new avenues for the developments in the field of History.

Course Module: The course is designed to provide an opportunity to get acquainted with recent developments in the field of History while emphasizing on fundamentals of the subject. One can say that since last 2 years because of the pandemic, information and communication technology has brought revolution in pedagogical practices. Teachers should be empowered with access to latest developments, emerging new trends research to improve pedagogy. Students' engagement should be increased by restructuring the learning process. The course will give equal importance to changing scenarios in the field of History.

Target Group: All regular faculties of Universities/ Colleges that are included under section 2 (f) of the UGC act. The teachers of the colleges affiliated to the University for at least five years can participate.

Mode of Delivery: Online Sessions on Google Meet held from 10:30 to 17:30 daily.

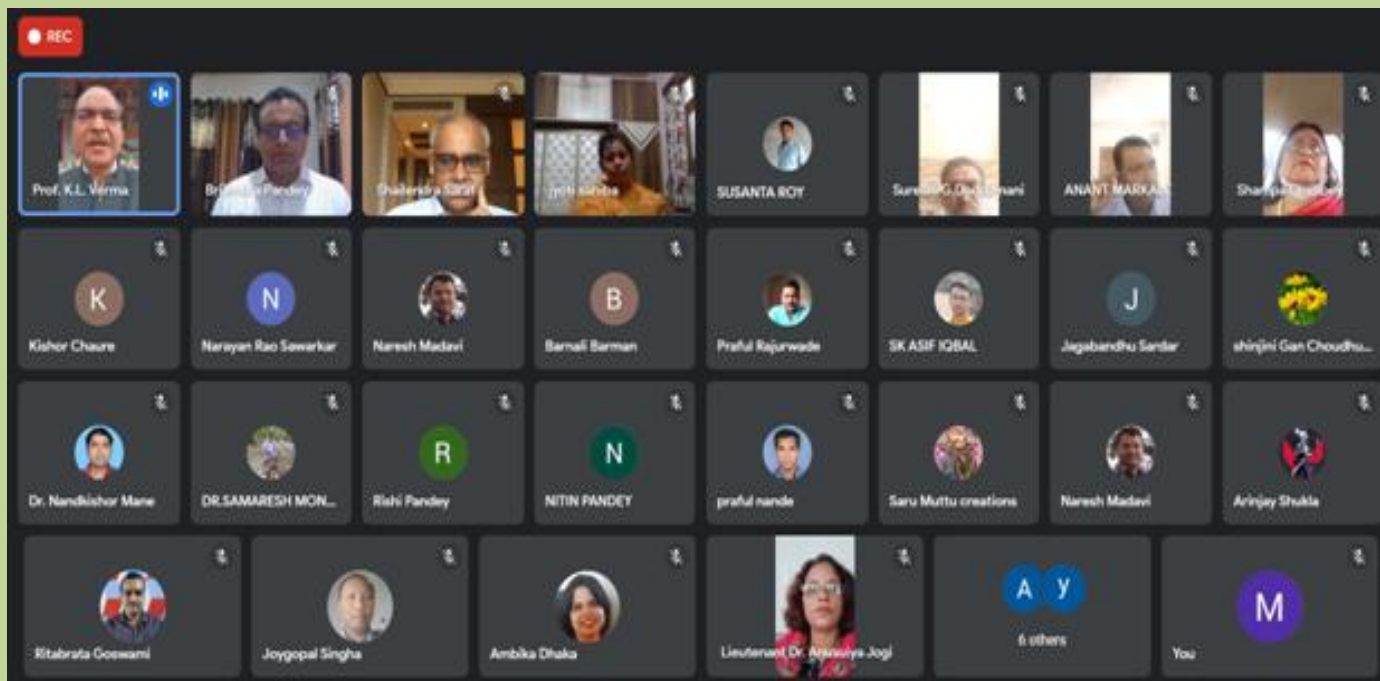
DAY 1

Session I (09:30-11.00)

REGISTRATION, INAUGURATION & INDUCTION

The inaugural was attended by the Chief Guest, Prof. Keshari Lal Verma, Vice Chancellor, Pt. Ravishankar Shukla University, Raipur; Dr Shailendra Saraf, Director, HRDC, Pt. Ravishankar Shukla University, Raipur; Dr. Shampa Choubey, Head of History Department, D.B. Girls PG College (Autonomous), Raipur; Dr. Brijendra Pandey, Assistant Professor, HRDC & the Participants from all over India.

The session started with the inaugural address of Prof. Keshari Lal Verma, Vice Chancellor, who wished all for the success of the refresher course. The course coordinator, Dr. Shampa Choubey, welcomed the chief Guest, Director (HRDC) & all the participants. She then briefed them about the theme & design of the refresher course. She also highlighted the relevance of History in this Globalised & ever changing world. In the end Dr. Brijendra Pandey, HRDC, explained all the relevant rules of the course & forthcoming sessions & marking schemes in the course. He ended the session with the vote of thanks to all.



Session II (12.15-13-45)



Dr. Vibha Tripathi, Professor Emeritus (Retd.), Department of Ancient Indian History, Culture & Archaeology , Banaras Hindu University, Varanasi(UP).

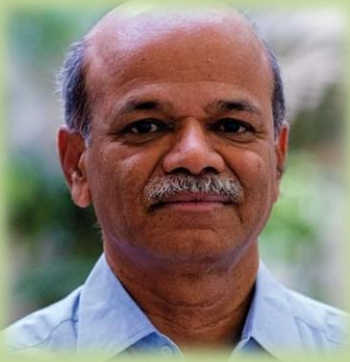
Topic for the session was "India's contribution to the world of knowledge-Heritage and legacy."

She emphasized on the ancient India's contribution in the field of art, science, literature, astronomy, architecture & much more. She discussed about the origin of the concept of zero & decimal system in mathematics, the knowledge of eclipse, position of stars & shape of the earth. Geometric tools & scales, weights used from the time of Harappans. She highlighted on the much acclaimed contribution of scholars like Aryabhata, Brahmagupta, Nagarjuna, Charak & Sushrutasamhitas in the field of medical science.

"We owe a lot to the ancient Indians, teaching us how to count. Without which most modern scientific discoveries would have been impossible." – Albert Einstein

One of the oldest civilizations in the world, the Indian civilization has a strong tradition of science and technology. Ancient India was a land of sages and seers as well as a land of scholars and scientists. Research has shown that from making the best steel in the world to teaching the world to count, India was actively contributing to the field of science and technology centuries long before modern laboratories were set up. Many theories and techniques discovered by the ancient Indians have created and strengthened the fundamentals of modern science and technology. While some of these groundbreaking contributions have been acknowledged, some are still unknown to most.

Session III (14:15 to 15:45)



Dr. Vasant Shinde, Indian Archaeologist, Ex-Vice Chancellor,
Deccan University, Pune.

The topic for the session was “Untouched Aspects of Indus Valley Civilization.”

His lecture informed about the latest excavations in the Indus valley areas & the changing perspectives in the field. His focus was on the current 15 years of excavations which are still not known & on those, on which the work is going on. He made a insightful presentation for the lecture which had many slides highlighting the Indus valley sites & artefacts. Many untouched aspects of one of the oldest known civilization were brought to the foreground. His vast experience in the field of archaeology made the participants more enthusiastic & curious for the latest ongoing knowledge in the field.

The Indus Valley Civilisation (IVC), also known as the Indus Civilisation,[1] was a Bronze Age civilisation in the northwestern regions of South Asia, lasting from 3300 BCE to 1300 BCE, and in its mature form from 2600 BCE to 1900 BCE. Together with ancient Egypt and Mesopotamia, it was one of three early civilisations of the Near East and South Asia, and of the three, the most widespread, its sites spanning an area stretching from today's northeast Afghanistan, through much of Pakistan, and into western and north western India. It flourished in the basins of the Indus River, which flows through the length of Pakistan, and along a system of perennial, mostly monsoon-fed, rivers that once coursed in the vicinity of the seasonal Ghaggar-Hakra River in northwest India and eastern Pakistan.

Session IV (16.00 to 17.30)



Dr. B. K. Shrivastav, Head of the Department, Dr. Harisingh Gour University, Sagar (MP)

The topic for the session was “Power of Subconscious mind- learning from our Indian History and Culture”.

It was a very interesting & much liked session. He made us all understand about the power of subconscious mind in every human. He interlinked this potential with many significant characters in history like Alexander, Akbar etc. His session was filled with many anecdotes from history which kept the participants engaged. He made all understand that how this potential has impacted history & how it can revolutionize each one's life. It was a completely motivating session which had surely left its imprint in participants mind. He clarified the minute differences between subconscious & conscious mind.

DAY 2

Session I (10.30-12.00)



Dr. Usha Agrawal, Professor, Department of History & Tourism, Govt. PG College, Mandasaur (MP)

The topic for the session was “Intangible Heritage of India & its Sustainability”.

She mentioned about the values & knowledge which is having a long legacy in India& is getting passed on from generations.This is the real intangible heritage of a country which is to be protected .Moral education & moralities too get passed from our ancestors to us. She has enriched all our participants with valuable intangible heritages of India which has historical significance. She further elaborated it in all the fields of environment, economy, society & culture and said that for the development of a country, its traditional intangible heritages should be well conserved. She also highlighted on the challenges which are there.

Session II (12.15-13.45)



Dr. Archana Sharma, Professor, Department of Ancient Indian History, Banaras Hindu University(UP)

The topic for the session was “The impact of Religious Revolution in Ancient India”

The main theme for the lecture was a study based on Buddhist Literature in special reference to women. It was a very charged session, she elaborated on the role women played& their condition in ancient Indian history. The journey from Harrapa to Rigveda & then to the 6th century BC, in the context of Buddhist literature was full of stories & anecdotes from historical literatures. She highlighted the conditions of women in the lifetime of Buddha & how Buddhism changed it for good. Buddhism was the only contemporary religious sect which thought about the questions on women & its implications in the world. Religion is a cultural heritage for India & we should be proud that religions which originated in India has a worldwide acceptance & followers. She presented a beautiful slideshow for the session which contained enthralling pictures & information.

Session III (14:15 to 15:45)



Dr. Anant Ashutosh Dwivedi, Director General, Heritage Society, Patna (Bihar)

The topic for the session was “Mauryan Art & Architecture”

The lecture was on Mauryan Art which consist of shining pillars, stupas, coins, caves & artefacts. Dr. Dwivedi detailed us all with ongoing excavations & works in the field of archaeology in context of Mauryan art & architecture. He has presented a captivating slideshow of Mauryan court art, popular art, artefacts & much more. He showed the sites on which the excavations are going on & how it is done minutely. His lecture was full of astonishing facts & information. He showed the boundary wall of the city of Patliputra & its 64 gates. It was a much engaged discussion. The art & architecture during mauryan period was one of the best Mauryan art is the art produced during the period of the Mauryan Empire, which was the first empire to rule over most of the Indian subcontinent, between 322 and 185 BCE. It represented an important transition in Indian art from use of wood to stone. It was a royal art patronized by Mauryan kings especially Ashoka. Pillars, Stupas, caves are the most prominent survivals.

Session IV (16:00 to 17:30)



Dr. Sanjay Swarnkar, Professor, Dept. of History, Govt. K.R.G.P.G College, Gwalior (MP)

The topic for the session was “The Role of Religious Sects in Agrarian Movements of Colonial India”.

DrSwarnkar highlighted on the forgotten contribution of the religious sects from various states of India. He covered the role played by various religious leader from all over India in agrarian movements. Agrarian movements mainly started in the period of medieval history in India & continued in colonial period. Thereligious leaders from Punjab, UP,Haryana & other states of India were also involved in the agrarian movement taking place during time. He discussed the role of many religious leaders like Namdev, Tukaram, Ramdas, Nanak, Swami shahjanand& many more in their respective periods.

Day 3

Session I (10.30-12.00)



Dr. B. K. Shrivastav, Head of the Department,Dr. HarisinghGour University, Sagar (MP).

The topic for the session was “Gandhi and his reflections with Geeta”.

Two teachings of the Bhagwad Gita appealed most to Gandhiji. The first one was anasakti, non-attachment, to the fruits of one’s actions, “Your business is with the action only; never with its fruits.”In his work Anasaktiyoga, Gandhiji explains the concept of anasakti in terms of the spirit with which one should perform one’s duties. The karma-yogi performs his duties with the understanding that it is by the will of destiny that he has been placed in a particular vocation and he must perform his duties with an attitude of total surrender to the Divine Will, for the benefit of society.

The second teaching was that of attaining the exalted state of sthitaprajna, elaborated in 19 verses, that he read at the age of 18, in England. For him, these 19 verses represented the gist of the entire Gita. The yogin who has succeeded in freeing his mind from all attachment to objects of senses, is devoid of all fear and remains calm and composed even in adverse situations.

Experiencing even-mindedness, he adopts a compassionate attitude towards all.

Krishna cautions Arjuna that even those seekers who ceaselessly strive to curb their senses are not always successful. Gandhi writes, “The most important step towards the haven of security is to rein in the senses, which, if not kept in control, carry off even the wisest to the abyss. Physical starving of the senses works but as a temporary purpose; it is only when the intellect realises its moorings in the Highest and prevents the mind from wandering that one can feel secure.”

Session II(12:15-13:45)



Dr. Ashok Patnaik, Professor (Retd.), Dept of History, Utkal University, Bhubaneswar.

The topic for the session was “Objectivity in Historiography.”

“The only history that can truly nourish inspires & guide the people over a long period of time is one written in an objective spirit.”

The historian collects his data fairly, which he observes systematically, organizes logically & tests them thoroughly. Then by inductive logic & by the use of hypothesis, he reaches provisional generalization. Then only he carries out a final search for new data & makes fresh tests for final conclusions, while doing so he should cast off as far as possible the prejudices of race, nationality, class, society & political myth to attain historical objectivity. When historians are interested in facts about the past it is because of their possible historical status, which, in practice, means their historical significance. We must therefore ask whether there are any objective (in the sense of absolute) criteria for the granting of the epithet ‘significant’ to some events and ‘insignificant’ to others

Session III & Session IV (14.15-17.30)

MICRO TEACHING SESSIONS



Dr. Brijendra Pandey, Assistant Professor, HRDC, Pt. RSU, Raipur.

The participants presented a small lecture on their topics. It was to judge the quality & the ability to present. Dr. Pandey's valuable insights in the session were surely to make them more confident for the future.

Day 4

Session I (10.30-12.00)



Dr. Ashok Patnaik, Professor (Retd.), Dept of History, Utkal University, Bhubaneswar.

The topic for the session was "Historical Criticism".

The business of a historian is to construct interpretation of the past from its surviving remains & then to write, it involves collection of data, its critical evaluation, & then presentation. Historical criticism, also known as the historical-critical method or higher criticism, is a branch of criticism that investigates the origins of ancient texts in order to understand "the world behind the text". While often discussed in terms of Jewish and

Christian writings from ancient times, historical criticism has also been applied to other religious and secular writings from various parts of the world and periods of history. The primary goal of historical criticism is to discover the text's primitive or original meaning in its original historical context and its literal sense. The secondary goal seeks to establish a reconstruction of the historical situation of the author and recipients of the text. That may be accomplished by reconstructing the true nature of the events that the text describes. An ancient text may also serve as a document, record or source for reconstructing the ancient past, which may also serve as a chief interest to the historical critic. In regard to Semitic biblical interpretation, the historical critic would be able to interpret the literature of Israel as well as the history of Israel. In 18th century Biblical criticism, the term "higher criticism" was commonly used in mainstream scholarship in contrast to "lower criticism". In the 21st century, historical criticism is the more commonly used term for higher criticism, and textual criticism is more common than the loose expression "lower criticism"

Session II (12.15-13.45)

Dr. Kamlesh Sharma, Professor (Retd.) Dept. of History, Vardhaman Mahaveer Open University, Kota, Rajasthan

The topic for the session was “Characteristics of Indian Culture”

India has a rich culture and that has become our identity. Be it in religion, art, intellectual achievements, or performing arts, it has made us a colorful, rich, and diverse nation. Additionally, culture is a way through which we behave with others, how softly we react to different things, our understanding of ethics, values, and beliefs. Indian culture is famous across the world due to its diversity in music, art, dance, language, cuisine, costume, philosophy, and literature. The important characteristics of Indian Culture are civilized communication, beliefs, values, etiquette, and rituals. India is well known for its 'Unity in Diversity' across the world. That means India is a diverse nation where many religious people live together peacefully having their own different cultures. So, we can see people of different languages, dresses, food habits, and rituals living with unity in India. Indian culture, often labeled as a combination of several cultures, has been influenced by a history that is several millennia old, beginning with the Indus Valley Civilization and other early cultural areas. Many elements of Indian culture, such as Indian religions, mathematics, philosophy, cuisine, languages, dance, music and movies have had a profound impact across the Indosphere, Greater India and the world. Specifically Southeast Asian and Himalayan

influence on early India, had lasting impacts on the formation of Hinduism and Indian mythology. Hinduism itself formed from various distinct folk religions, which merged during the Vedic period and following periods. Especially Austroasiatic groups, such as early Munda and Mon Khmer, but also Tibetic and other Tibeto-Burmese groups, left noteworthy influence on local Indian peoples and culture. Several scholars, such as Professor Przulski, Jules Bloch, and Lévi, among others, concluded that there is a significant cultural, linguistic, and political Mon-Khmer (Austroasiatic) influence on early India, which can also be observed by Austroasiatic loanwords within Indo-Aryan languages and rice cultivation, which was introduced by East/Southeast Asian rice-agriculturalists using a route from Southeast Asia through Northeast India into the Indian subcontinent.

Session III(14:15 to 15:45)



Dr. I. S. Vishwakarma, Chairman, U.P. Higher Education Services Commission.

The topic for the session was “Bharatvarsha - Avdharna, Rashtrachintan and Swabodh.”

Nations are generally held together on the basis of race, religion, language or ethnicity. Sameness is the formula of nation building, but India stands in defiance of this mediocrity. ‘Bharatvarsh’ has lived for thousands of years, a union of over two hundred kingdoms. King Bharata extended the boundaries of his empire, more through inclusion than conquest, and it was one of the largest empires on the planet. We took pride in building the nation not on the sameness of people but on the diversity of people. The name Bharatvarsha was given to the whole country after the name of ancient tribe called the Bharata and the people were called Bharatasantati. Our ancient poets, philosophers and writers viewed the country as an integral unit. They spoke of the land stretching from the Himalayas to the sea, as the proper domain of a single universal monarch.

According to the scriptural description of the Brahmand, the entire Earth is called BHARATVARSHA but particularly, the area of the continent that lies South of the Himalayas is called BHARATVARSHA. It is also called ARYAVARTA. The inhabitants of Aryavarta are called Aryans as referred in the Rig Veda.

Thus, the words Bharatiya or Aryans were both used for the inhabitants of Bharatvarsha or Aryavarta. Persians used to call Hindu for the Sindhu river and thus, Hindustan came into being. The English called the river Sindhu, Indus and thus the English name for HINDUSTAN became INDIA.

Session IV(16:00 to 17:30)

MICRO TEACHING SESSION



Dr. Brijendra Pandey, Assistant Professor, HRDC, Pt. RSU, Raipur.

The participants presented a small lecture on their topics. It was to judge the quality & the ability to present. Dr. Pandey's valuable insights in the session were surely to make them more confident for the future.

Day 5

Session I (10.30-12.00)



Dr. R. N. Mishra, Professor (Retd.), Department of History, Pt. Ravishankar University, Raipur(CG)

The topic for the session was “Revolt of 1857 in Chhattisgarh & Intellectual awakening in Chhattisgarh.”

The First war of independence in 1857 was spearheaded in Chhattisgarh by VirNarain Singh who was a benevolent zamindar of Sonakhan. The British arrested him in 1856 for looting a trader's grain stocks and distributing it amongst the poor in a severe famine year. In 1857 with the help of the soldiers of the British Army at Raipur, Virnarainsingh escaped from prison. He reached Sonakhan & formed an army of 500 men. Under the leadership of Singh a powerful British Army was dispatched to crush the Sonakhan army. The British succeeded after a prolonged battle & VirNarain Singh was arrested & later hanged. The lecture was full of anecdotes from Chhattisgarh's history & the bravery of martyrs from Chhattisgarh. The participants learned some remarkable & hidden history from Chhattisgarh.

Session II (12.15-13.45)



Dr. Deenabandhu Pandey, Member, Indian Council of Social Science & Research

The topic for the session was “Indian conceptualization of History & Writing.”

In the Indian parlance, this is called Itihasa. The common Indian-language equivalent of the word “history” is Itihasa, which, though accurate, is also incomplete. The Sanskrit Itihasa can be split as Iti+ha+aasa, roughly translated as “This is how it happened.” The key word is “how.” The exact date of The immediate emphasis is on the “value” rather than the “fact” aspect. In India, only the Ramayana and the Mahabharata are termed Itihasa. No chronicle of any royal lineage or descriptions of great battles, charitable and public works and suchlike, which came after these two epics were given this title.

Dr. Pandey's vast experience as indologist, helped the participants grasp more clear the the writing history in Indian context. The writing of history in India has along history & we wrote extensively about the histories of dynasties & event with minute details & also inculcating values in those writings.

Session III(14:15 to 15:45)



Dr. K. K. Agrawal, Professor, Department of History, Pt. Ravishankar University, Raipur(CG)

The topic for the session was “Muriya Revolt and Bhumkal Movement InBastar.”

The Bastar Rebellion, also known as the bhumkal (earthquake) was an adivasi rebellion in 1910 against the British Raj in the princely state of Bastar in central India. It was primarily led by Gundadhur, a tribal leader, as well as by a diwan and cousin of the king, Lal Karendra Singh. The tribals mobilized, which led to the entire state rising in revolt against the British colonial government, overwhelming the small 250-strong police force in the state, and were marked by widespread rioting, looting and arson. By the end of February, however, additional troops from neighbouringJeypore and Bengal had quelled the revolt and arrested the leaders.

Session IV (16:00 to 17:30)



Dr. Pratibha Pandey, Professor, Department of History, Mohanlal Sukhadia University, Udaipur(Rajasthan)

The topic for the session was “Role of women in Indian Independence.”

The history of Indian Freedom Struggle would be incomplete without mentioning the contributions of women. The sacrifice made by the women of India will occupy the foremost place. They fought with true spirit and undaunted courage and faced various tortures, exploitations and hardships to earn us freedom. Woman's participation in India's freedom struggle began as early as in 1817. Bhima Bai Holkar fought bravely against the British colonel Malcolm and defeated him in guerilla warfare. Many women including Rani Channama of Kittur, Rani Begam Hazrat Mahal of Avadh fought against British East India company in the 19th century; 30 years before the “First War of Independence 1857”

The role played by women in the War of Independence (the Great Revolt) of 1857 was creditable and invited the admiration even leaders of the Revolt. Rani of Ramgarh, Rani Jindan Kaur, Rani Tace Bai, Baiza Bai, Chauhan Rani, Tapasvini Maharani daringly led their troops into the battlefield.

Rani Lakshmi Bai of Jhansi whose heroism and superb leadership laid an outstanding example of real patriotism. Indian women who joined the national movement belonged to educated and liberal families, as well as those from the rural areas and from all walk of life, all castes, religions and communities.

Sarojini Naidu, Kasturba Gandhi, Vijayalakmi Pundit and Annie Beasant in the 20th century are the names which are remembered even today for their singular contribution both in battlefield and in political field.

Day 6

Session I (10.30-12.00)



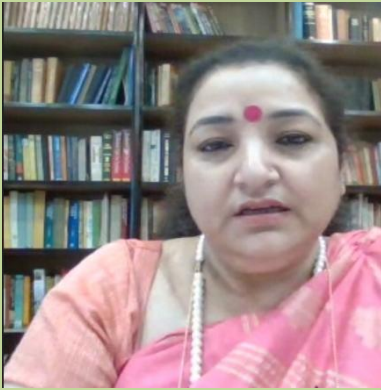
Dr. Sushma Trivedi, Professor, Department of History, Navyug Kanya Mahavidyalaya., Lucknow University (UP)

The topic for the session was “Uprising, Perspective & Understanding Of 1857 (historiography, facts, interpretation, nature of uprising.)”

This war of Independence marked the end of rule by the British East India company. Post this, India was directly ruled by the British government through representatives known as Governor-General. The revolt of 1857 was the conscious beginning of the Independence struggle against the colonial tyranny of the British. There are various names for the revolt of 1857 – India’s First War of Independence, Sepoy Mutiny, etc. The revolt began on May 10, 1857, at Meerut as a sepoy mutiny. It was initiated by sepoys in the Bengal Presidency against the British officers. The Indian rebellion was fed by resentments born of diverse

perceptions, including invasive British-style social reforms, harsh land taxes, summary treatment of some rich landowners and princes, as well as scepticism about the improvements brought about by British rule. Many Indians rose against the British; however, many also fought for the British, and the majority remained seemingly compliant to British rule. Violence, which sometimes betrayed exceptional cruelty, was inflicted on both sides, on British officers, and civilians, including women and children, by the rebels, and on the rebels, and their supporters, including sometimes entire villages, by British reprisals; the cities of Delhi and Lucknow were laid waste in the fighting and the British retaliation

Session II (12.15-13.45)



Dr. Sindhu Kapoor, Professor, Department of History (Cultural Heritage), Cluster University Of Jammu (J&K)

The topic for the session was “History of Jammu & Kashmir (1846-1947)-Trends in Historiography & Observations.”

In 1845, the First Anglo-Sikh War broke out, and Gulab Singh "contrived to hold himself aloof till the battle of Sobraon (1846), when he appeared as a useful mediator and the trusted advisor of Sir Henry Lawrence. Two treaties were concluded. By the first the State of Lahore (i.e. West Punjab) handed over to the British, as equivalent for (rupees) ten million of indemnity, the hill countries between Beas and Indus; by the second the British made over to Gulab Singh for (Rupees) 7.5 million all the hilly or mountainous country situated to the east of Indus and west of Ravi" (i.e. the Vale of Kashmir). The Treaty of Amritsar freed Gulab Singh from obligations towards the Sikhs and made him the Maharajah of Jammu and Kashmir. The Dogras' loyalty came in handy to the British during the revolt of 1857 which challenged British rule in India. Dogras refused to provide sanctuary to mutineers, allowed English women and children to seek asylum in Kashmir and sent Kashmiri troops to fight on behalf of the British. British in return rewarded them by securing the succession of Dogra rule in Kashmir. Soon after Gulab Singh's death in 1857, his son, Ranbir Singh, added the

emirates of Hunza, Gilgit and Nagar to the kingdom. The Princely State of Kashmir and Jammu (as it was then called) was constituted between 1820 and 1858 and was "somewhat artificial in composition and it did not develop a fully coherent identity, partly as a result of its disparate origins and partly as a result of the autocratic rule which it experienced on the fringes of Empire. Ranbir Singh's grandson Hari Singh, who had ascended the throne of

Kashmir in 1925, was the reigning monarch in 1947 at the conclusion of British rule of the subcontinent and the subsequent partition of the British Indian Empire into the newly independent Dominion of India and Dominion of Pakistan.

Session III(14:15 to 15:45)



Dr. Sanjay Kumar, Principal, Govt. Degree College, Satpuli, Pauri Garhwal, Uttarakhand.

The topic for the session was “Values in Indian Freedom Movement”.

The enormity of sources available and accessible to study India's freedom struggle have made the subject extremely fascinating and challenging both for obvious reasons. India was the first non-white nation to emerge from colonial control and its independence from Britain in 1947 undermined the whole fabric of the British Empire which had dominated world affairs in the preceding decades. In conventional historiography the great mutiny of 1857 is marked as beginning of India's freedom struggle but Christopher Bayley in 'Origins of Nationality in Asia' categorically states that anti-colonial resistance began at least hundred years earlier by various communities for defending their culture and way of life. The revolt of 1857 remains a landmark event in the saga of anti-colonial protest for various reasons- intensity, geographical expansion, participation of the masses and its popular support base and etc. The foundation of Indian National Congress in 1885 and its gradual and impressive popularity among various sections of the society made it a vital platform of protest. Undeniably INC(Indian National Congress) remained an umbrella organization consisting of leaders of diametrically opposite views, approaches and ideologies with common goal of independence. It gave the freedom struggle a logical and well organized canvas by launching all India mass movements by mobilizing various sections of the society- women,

peasants, tribal's, professional groups, labourers' and etc. It's functioning was democratic in contents and forms where every issue was debated, amended and even revised . Even Gandhi's authority was challenged many a times as in the case of elections of Congress Presidents in 1938 & 1939 respectively. From the very beginning the nationalist spirit was nurtured and inspired by the major historic events of world history .The American Revolution (1776), French Revolution (1789), Revolutions of 1830.& 1848, Bolshevik Revolution of Russia (1917) and other events were proved catalytic in promoting consciousness among people. The greatest anti- colonial resistance under the charismatic leadership of Mahatma Gandhi changed the course, nature and pace of freedom struggle . Gandhi used the weapon of ' Truth', 'Nonviolence ', and 'Satyagraha' against the tyrannical rule of British. Handling such a movement in a country of diversity and pluralism in all walks of life was certainly a herculean task. Along with Gandhian popular mass movements- Non-cooperation, Civil Disobedience and Quit India, there were other currents of violence protests by revolutionaries who have no believe in Gandhian way. But the most significant Values that the freedom struggle keep it up were - Nonviolence, peaceful Satyagraha, popular participation of almost all the sections of society including subalterns , supreme sacrifices of thousands of known and unknown martyrs and that resulted into the birth of a nation which became the most vibrant and dynamic democracy with secular spirit.

Session IV (16:00 to 17:30)



Dr. Mukesh Kumar, Professor, Department of History,
Magadh University, Bodhgaya(Bihar).

The topic for the session was “Bias in Historical Research”.

Bias is an inclination or outlook to present or hold a partial perspective, often accompanied by a refusal to consider the possible merits of alternative points of view. Regardless of

whether conscious or learned implicitly within cultural contexts, biases have been part of historical investigation since the ancient beginnings of the discipline. As such, history provides an excellent example of how biases change, evolve, and even disappear.

Every historian has his own likes, tastes, aptitude and preferences. He may choose either political or social or economic or military or constitutional or art-history and because he or she is specially inclined towards that particular subject, he or she is likely to be affected by it. Froude's history gives us an impression of the course of events that is entirely different. Karl Marx would pick only the class struggle, Hegel would concentrate on human spirit.

The participants learned the concept of bias in history writing & how it can be minimized. It was sure to help them in their future endeavours.

Day 7

Session I (10.30-12.00)

Dr. Manish Sinha, Professor, Department of History, Bodhgaya University, Bihar

The topic for the session was "Contribution of Raja Ram Mohan Roy in Social Reformations in India".

Prof. Sinha in his deliberation said that R R Roy can be called as Prince of Indian Renaissance. He said that India was under dark cloud when R R Roy was born. Rajaram Mohan Roy was born when Mughals collapsed and Britishers were becoming stronger. This rule of Britishers was different from Portuguese. They did not wanted to dominate in Indian religious sphere as they were in their initial stages to laying foundation of their empire in India. Roy imagines a vision of new India or a modern India. He was seeing new vision of India. He studied the different problems of India. The problem was retrograde traditions. These were dividing India deeply. He was member of Bengal Unitarian Society. It was appealing him greatly as it stood for unity and oneness of God, one religion. He opposed idol worship and polytheism.

He established Brahma Samaj whose members were to follow moral piety. The members were to follow the supreme and preserver of all, immutable, unsearchable, one who does not carry any name, animate, position etc. So the members were not to follow any picture, object, image and no drinks, feasting, within premises were permitted. The members were

not supposed to condemn any religion, their sayings etc. So, he was quite advanced in his thought from the ages. When we talk about religion of Roy, he says there are 4 types of people- first type of person is deceiver one who imposes his religion on others; second- is deceived; third- is deceiver and deceived as well; fourth- neither deceiver, nor deceived and he is blessed as he is in direct communication with god (source-Book of Roy). So we can say that Roy was much ahead of his times. Roy was very much influenced with Islam. He did not believe in concept of trinity. Christianity also had concept of trinity which he opposed. There is God, there is son of god and he is the medium, holy spirit that communicates the saying of god. He wrote book "The Precepts of Jesus", the aim was that people should know the teachings of Jesus. Roy believed that moral teachings can be regarded as the basis of morality of all religions. However, he was doubtful about miracles as mentioned in Christianity. Roy read New Testament and Old Testament thoroughly and discussed them in details in talks.

Rajaram Mohan Roy was a reformer ahead of his times and age in true sense.

Session II (12.15-13.45)



Dr. Ratneshwar Mishra, Professor (Retd.), Department of History, Lalit Narayan Mithila University, Darbhanga (Bihar)

The topic for the session was "Nation and Nationalism in reference to India."

Nationalism is an idea and movement that holds that the nation should be congruent with the state. As a movement, nationalism tends to promote the interests of a particular nation (as in a group of people), especially with the aim of gaining and maintaining the nation's sovereignty (self-governance) over its homeland. Nationalism holds that each nation should govern itself, free from outside interference (self-determination), that a nation is a natural and ideal basis for a polity and that the nation is the only rightful source of political power (popular sovereignty). Indian nationalism developed as a concept during the Indian independence movement which campaigned for independence from British rule. Indian nationalism is an instance of territorial nationalism, which is inclusive of all of the people of India, despite their diverse ethnic, linguistic and religious backgrounds. India has been unified under many emperors and governments in history. Ancient texts mention India

under emperor Bharata and AkhandBharat, these regions roughly form the entities of modern-day greater India. The Mauryan Empire was the first to unite all of India, and South Asia (including much of Afghanistan). In addition, much of India has also been unified under a central government by empires, such as the Gupta Empire, Rashtrakuta Empire, Pala Empire, Mughal Empire, Vijayanagara Empire, Maratha Empire, British Indian Empire, etc. In 1917, Rabindranath Tagore wrote that India is a 'no-nation' that never had a real sense of national unity. As a political entity, however, it was faced with the challenge of 'welding together into one body various races'. 'In my country', he continues, 'we have been seeking to find out something common to all races, which will prove their real unity'.

Session III (14:15-15:45)

Seminar



Dr. Dayanand Roy, Professor, Department of History,
Bhagalpur University (Bihar).

One of the objectives of the course was to improve pedagogical skills & seminar is considered as one of the advance methods of teaching. Dr Roy gave an experienced suggestions regarding the skills during assessment. His notable insights on the presentations in the seminar was sure to benefit the participants all their life.

Session IV (16.00-17.30)



Dr. Om Jee Upadhyay Director (Research & Administration),
Indian Council of Historical Research, Ministry of Human
Resource & Development, GOI

The topic for the session was “AzaadiKa Amrit Mohotsav: Idea & Aim (India’s Struggle for Independence & Cultural Nationalism)”

Dr. Upadhyay with his wide range of experience in the subject talked about the Indian Independence & the contribution of many forgotten heroes. We have to bring to the forth those leader & their works which are till now lost somewhere in the pages of history. There are many unsung heroes in the freedom struggle of India whose contribution to the motherland is still to be recognized & studied. We need to look the history of India through wider lenses compared to the narrow view with which sometimes it is shown so that many untouched & unwritten hidden glories of Indian national movement will come to the forth. There are many narratives in history writing which is to be relooked again in order to present a true picture of Indian history.

Day 8

Session I&II (10.30-13.45)

Seminar



Dr. Dayanand Roy, Professor, Department of History,
Bhagalpur University (Bihar).

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Session III (14.15-15.45)



Dr. S. D. Jha, Principal, Nalini Prabha Deo Prasad College,
Bilaspur(CG)

The topic for the session was “Role of Subhas Chandra Bose in Freedom Movement”.

Subhas Chandra Bose was an Indian nationalist whose defiant patriotism made him a hero in India, but who attempts during World War II to rid India of British rule with the help of Nazi Germany and Imperial Japan. The honorific Netaji (Hindustani: "Respected Leader") was first applied to Bose in Germany in early 1942—by the Indian soldiers of the Indian Legion and by the German and Indian officials in the Special Bureau for India in Berlin. It is now used throughout India.

Subhas Chandra Bose believed that the Bhagavad Gita was a great source of inspiration for the struggle against the British. Swami Vivekananda's teachings on universalism, his nationalist thoughts and his emphasis on social service and reform had all inspired Subhas Chandra Bose from his very young days. The fresh interpretation of India's ancient scriptures had appealed immensely to him. Some scholars think that Hindu spirituality formed an essential part of his political and social thought. As historian Leonard Gordon explains "Inner religious explorations continued to be a part of his adult life. This set him apart from the slowly growing number of atheistic socialists and communists who dotted the Indian landscape."

Session IV (16.00-17.30)



Dr. Anand Burdhan School of Heritage, Research &
Management, Dr. B.R. Ambedkar University, Delhi

The topic for the session was” The concept of Indian National Congress.”

The Indian National Congress (often called the Congress Party or simply Congress, abbr. INC) is a political party in India with widespread roots. Founded in 1885, it was the first modern nationalist movement to emerge in the British Empire in Asia and Africa. From the late 19th century, and especially after 1920, under the leadership of Mahatma Gandhi, Congress became the principal leader of the Indian independence movement. Congress led India to independence from the United Kingdom, and powerfully influenced other anti-colonial nationalist movements in the British Empire. The Indian National Congress conducted its first session in Bombay from 28 to 31 December 1885 at the initiative of retired Civil Service officer Allan Octavian Hume. In 1883, Hume had outlined his idea for a body representing Indian interests in an open letter to graduates of the University of Calcutta. Its aim was to obtain a greater share in government for educated Indians, and to create a platform for civic and political dialogue between them and the British Raj. Hume took the initiative, and in March 1885 a notice convening the first meeting of the Indian National Union to be held in Poona the following December was issued.[32] Due to a cholera outbreak there, it was moved to Bombay

Day 9

Session I (10.30-12.00)



Dr. Anand Burdhan School of Heritage, Research & Management, Dr.B.R.Ambedkar University, Delhi

The topic for the session was “The Role of Shivaji in the upliftment of Hindu Culture”.

Shivaji Bhonsale I also referred to as Chhatrapati Shivaji Maharaj, was an Indian ruler and a member of the Bhonsle Maratha clan. Shivaji carved out an enclave from the declining Adilshahi sultanate of Bijapur that formed the genesis of the Maratha Empire. In 1674, he was formally crowned the Chhatrapati (emperor) of his realm at Raigad.

Over the course of his life, Shivaji engaged in both alliances and hostilities with the Mughal Empire, the Sultanate of Golkonda and the Sultanate of Bijapur, as well as with European colonial powers. Shivaji's military forces expanded the Maratha sphere of influence, capturing and building forts, and forming a Maratha navy. Shivaji established a competent and progressive civil rule with well-structured administrative organisations. He revived

ancient Hindu political traditions, court conventions and promoted the usage of the Marathi and Sanskrit languages, replacing Persian in court and administration. Shivaji was well known for his strong religious and warrior code of ethics and exemplary character. He was recognized as a great national hero during the Indian Independence Movement.

Session II (12.15-13.45)



Dr. Rajni Shrivastava, Professor, Department of Philosophy,
Lucknow University (UP)

The topic for the session was “Vivekananda on practical Vedanta, Integral Yoga, Concept of Universal Religion, Philosophy of Education”.

Vivekananda propagated that the essence of Hinduism was best expressed in Adi Shankara's Advaita Vedanta philosophy. Nevertheless, following Ramakrishna, and in contrast to Advaita Vedanta, Vivekananda believed that the Absolute is both immanent and transcendent. According to Anil Sooklal, Vivekananda's neo-Vedanta "reconciles Dvaita or dualism and Advaita or non-dualism," viewing Brahman as "one without a second," yet "both qualified, saguna, and qualityless, nirguna." Vivekananda summarised the Vedanta as follows, giving it a modern and Universalistic interpretation, showing the influence of classical yoga:

Each soul is potentially divine. The goal is to manifest this Divinity within by controlling nature, external and internal. Do this either by work, or worship, or mental discipline, or philosophy—by one, or more, or all of these—and be free. This is the whole of religion. Doctrines, or dogmas, or rituals, or books, or temples, or forms, are but secondary details. Vivekananda popularized the notion of involution, a term which Vivekananda probably took from western Theosophists, notably Helena Blavatsky, in addition to Darwin's notion of evolution, and possibly referring to the Samkhya term *sātkarya*. Theosophic ideas on involution has "much in common" with "theories of the descent of God in Gnosticism, Kabbalah, and other esoteric schools." According to Meera Nanda, "Vivekananda uses the word involution exactly how it appears in Theosophy: the descent, or the involvement, of divine consciousness into matter." With spirit, Vivekananda refers to prana or purusha,

derived ("with some original twists") from Samkhya and classical yoga as presented by Patanjali in the Yoga sutras.

Session III & Session IV (14.15-17.30)

PROJECT PRESENTATION



Dr. Hansa Vyas, Professor, Department of History, Govt. Narmada College, Hosangabad (MP)

It was also a learning experience for the participants who were divided into groups to do a project and present the same for evaluation. Dr Vyas gave an valuable suggestions regarding the skills during assessment. & her notable insights on the presentations in the seminar were sure to benefit the participants all their life.

Day 10

Session I (10.30-12.00)



Dr. S. D. Jha, Principal, Nalini Prabha Deo Prasad College, Bilaspur(C.G)

The topic for the session was" Science & Technology in Ancient India"

Historian James Grant Duff once wrote, “Many of the advances in the sciences that we consider today to have been made in Europe were made in India centuries ago.” One of the oldest civilizations in the world, the Indian civilization has a strong tradition of science and technology. Ancient India was a land of sages and seers as well as a land of scholars and scientists. Research has shown that from making the best steel in the world to teaching the world to count, India was actively contributing to the field of science and technology centuries long before modern laboratories were set up. Many theories and techniques discovered by the ancient Indians have created and strengthened the fundamentals of modern science and technology. While some of these groundbreaking contributions have been acknowledged, some are still unknown to most.

Session II (12.15-13.45)

Dr. Meena Gour, Professor, Department of History, Mohanlal Sukhadia University, Udaipur(Rajasthan)

The topic for the session was “Role of Swami DayanandSaraswati in the upliftment of Indian Society.”

Swami DayanandSaraswati was a renowned scholar who promoted the Vedic philosophy

and principles of karma and reincarnation. His mission in life was universal brotherhood and for this he founded the Arya Samaj.The Arya Samaj opposes idol worship, caste system based on birth rather than on merit, untouchability, child marriage, pilgrimages, priesthood and temple offerings. Social reform and education were a big part of Swami DayanandSaraswati's ideals.He was a sanyasi (ascetic) from boyhood and a scholar. He believed in the infallible authority of the Vedas. Dayanand advocated the doctrine of Karma and Reincarnation. He emphasized the Vedic ideals of brahmacharya, including celibacy and devotion to God.Among Dayananda's contributions were his promoting of the equal rights for women, such as the right to education and reading of Indian scriptures, and his commentary on the Vedas from Vedic Sanskrit in Sanskrit as well as in Hindi.

"I accept as Dharma whatever is in full conformity with impartial justice, truthfulness and the like; that which is not opposed to the teachings of God as embodied in the Vedas. Whatever

is not free from partiality and is unjust, partaking of untruth and the like, and opposed to the teachings of God as embodied in the Vedas—that I hold as adharmā." — Satyarth Prakash

"He, who after careful thinking, is ever ready to accept truth and reject falsehood; who counts the happiness of others as he does that of his own self, him I call just." — Satyarth Prakash

Session III (14.15-15.45)

PROJECT PRESENTATION



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Session IV (16.00-17.30)

MCQ Test

Day 11

Session I (10.30-12.00)



Dr. Deepak Gaikwad, Professor(Retd.), Dept of History,
SavitribaiPhule University(Pune)

The topic for the session was “Contribution of Dr. B.R. Ambedkar in Indian Independence.”

Bhimrao Ramji Ambedkar, was an Indian jurist, economist, politician and social reformer, who inspired the Dalit Buddhist movement and campaigned against social discrimination towards the untouchables (Dalits). He was British India's Minister of Labour in Viceroy's Executive Council, Chairman of the Constituent drafting committee, independent India's first Minister of Law and Justice, and considered the chief architect of the Constitution of India.

Ambedkar was a prolific student, earning doctorates in economics from both Columbia University and the London School of Economics, gaining reputation as a scholar for his research in law, economics and political science. In his early career, he was an economist, professor, and lawyer. His later life was marked by his political activities; he became involved in campaigning and negotiations for India's independence, publishing journals, advocating political rights and social freedom for Dalits, and contributing significantly to the establishment of the state of India. In 1956, he converted to Buddhism, initiating mass conversions of Dalits.

Session II (12.15-13.45)



Padma Shree K. K. Muhammed, Indian Archaeologist,
Regional Director – North (Retd.) Archaeological Survey of India.

The topic for the session was “Challenging Conservation of temples in Chambal valley”.

Dr. Muhammed presented a beautiful slideshow on the conservation of temples in Bateshwar. It is about 35 kilometres (22 mi) north of Gwalior and about 30 kilometres (19 mi) east of Morena town. The site is mentioned in historical literature as Dharon or Paravali, later as Padavali. The local name for the group of temples is Batesvar or Bateshwar temples. Bateshwar, Morena, a complex of ancient Shiva & Vishnu temples situated 40 km away from Gwalior. These temples were built between 9th and 11th century during the Gurjara-Pratihara Dynasty, 200 years before Khajuraho. The area was under the control of Nirbhay Singh Gujjar. KK Muhammed was successful in convincing the dacoits to let him do the restoration. He was able to restore 60 temples during his tenure. After the dacoits were eliminated by the police, the area has been under encroachment from illegal mining, as the tremors from the usage of explosives can damage the structure.

The Bateshwar Hindu temples (or Batesara, Bateśvar) are a group of nearly 200 sandstone Hindu temples and their ruins in north Madhya Pradesh in post-Gupta, early Gurjara-Pratihara style of North Indian temple architecture. The temples are mostly small and spread over about 25 acres (10 ha) site. They are dedicated to Shiva, Vishnu and Shakti - representing the three major traditions within Hinduism. The site is within the Chambal River valley ravines, on the north-western slope of a hill near Padavali known for its major medieval era Vishnu temple. The Bateshwar temples were built between the 8th and the 10th-century. The site is likely named after the Bhuteshwar Temple, the largest Shiva temple at the site. It is also referred to as Batesvar temples site or Batesara temples site.

Session III (14.15-15.45)



Dr. Chandrashekhar Pran, Director(Retd.), Nehru Yuva Kendra Sangathan, Ministry of Youth Affairs & Sports, GOI

The topic for the session was “Bharat kaItihaas, Swaraj aurSwavalamban.”

Dr. Pran’s vast experience in the field made the session very enriching & energetic. He talked about Indian history with respect to our glories of the past, drawing anecdotes. He also briefed about the working of local administration & how it evolved in our history. He focused on the aspect of swaraj in Indian subcontinent from the time immemorial. The discussion about the independence of our local & village administration was noteworthy. Our villages were completely self independent in terms of economy as well as administration. This was the real swaraj which we had, irrespective of what was going in the Centre. The elaborated discussion on the subject with doubt clearance made the session ablosutely helpful for the participants in the coming future.

Session IV (16.00-17.30)



Dr. Archana Sharma, Professor, Department of Ancient Indian History, Banaras Hindu University(UP)

The topic for the session was “Sacred & Profane elements in Ancient & Medieval Indian Numismatics”

The Coinage of India began anywhere between early 1st millennium BCE to the 6th century BCE, and consisted mainly of copper and silver coins in its initial stage. The coins of this period were Karshapanas or Pana. A variety of earliest Indian coins, however, unlike those

circulated in West Asia, were stamped bars of metal, suggesting that the innovation of stamped currency was added to a pre-existing form of token currency which had already been present in the Janapadas and Mahajanapada kingdoms of the Early historic India. The kingdoms that minted their own coins included Gandhara, Kuntala, Kuru, Panchala, Magadha, Shakya, Surasena and Surashtra etc.

Time to go back in time from the 8th century to 12th century, also called as the medieval age of Indian history! This period was marked by the rise and fall of many states and empires particularly after the Arab and Turkish invasions. Though the Turks had conquered Persia, their culture was heavily influenced by the Persian traditions. After the establishment of Sultanate of Delhi, there were a series of dynasties who ruled different regions of India. With the changing administrations, currency and coinage of Medieval India also evolved to depict the magnificent art, literature and architecture from this flourishing era.

Medieval India Coinage saw a phase of experimentation under the regime of Muhammad Bin Tughlaq, who introduced the concept of token currency. Exceeding in numbers by a fair margin as compared to his predecessor, he inscribed his character and activities to produce gold coins in abundance. These coins were characterised by fine calligraphy and a number of fractional denominations. With his power and an interest in experimenting, he enforced his currency making him the greatest moneyers of Indian history though it wasn't a great success.

Day 12

Session I (10.30-12.00)



Dr. Mukesh Tiwari, Vice Chancellor, P. Shambhunath Shukla University, Shahdol (MP)

The topic for the session was “Role of Sardar Vallabhbhai Patel in Integration of States”.

Vallabhbhai Jhaverbhai Patel; 31 October 1875 – 15 December 1950), endeared as Sardar, was an Indian statesman. He served as the first Deputy Prime Minister of India from 1947 to 1950. He was an Indian barrister and a senior leader of the Indian National Congress who played a leading role in the country's struggle for independence and guided its integration

into a united, independent nation. He was one of the conservative members of the Indian National Congress. In India and elsewhere, he was often called Sardar, meaning "chief" in Hindi, Urdu, and Persian. He acted as Home Minister during the political integration of India and the Indo-Pakistani War of 1947. Patel took charge of the integration of the princely states into India. Under the plan of 3 June, more than 565 princely states were given the option of joining either India or Pakistan, or choosing independence. Indian nationalists and large segments of the public feared that if these states did not accede, most of the people and territory would be fragmented. The Congress, as well as senior British officials, considered Patel the best man for the task of achieving conquest of the princely states by the Indian dominion. Gandhi had said to Patel, "The problem of the States is so difficult that you alone can solve it". Patel was considered a statesman of integrity with the practical acumen and resolve to accomplish a monumental task. He asked V. P. Menon, a senior civil servant with whom he had worked on the partition of India, to become his right-hand man as chief secretary of the States Ministry. On 6 August 1947, Patel began lobbying the princes, attempting to make them receptive towards dialogue with the future government and forestall potential conflicts. Patel used social meetings and unofficial surroundings to engage most of the monarchs, inviting them to lunch and tea at his home in Delhi. At these meetings, Patel explained that there was no inherent conflict between the Congress and the princely order. Patel invoked the patriotism of India's monarchs, asking them to join in the independence of their nation and act as responsible rulers who cared about the future of their people. He persuaded the princes of 565 states of the impossibility of independence from the Indian republic, especially in the presence of growing opposition from their subjects. He proposed favourable terms for the merger, including the creation of privy purses for the rulers' descendants. While encouraging the rulers to act out of patriotism, Patel did not rule out force. Stressing that the princes would need to accede to India in good faith, he set a deadline of 15 August 1947 for them to sign the instrument of accession document. All but three of the states willingly merged into the Indian union; only Jammu and Kashmir, Junagadh, and Hyderabad did not fall into his basket.

Session II (12.15-13.45)

Dr. Himanshu Chaturvedi, Member, Indian Council of Historical Research, New Delhi

The topic for the session was “Learning Outcome Curriculum Framework-History Syllabus: A Paradigm Shift”.

The proposed Learning Outcomes based Curriculum Framework for history teaching at the undergraduate level by the University Grants. Learning and knowing may no longer be ends in themselves but linking them linearly with their saleability in the knowledge economy or in order to get employment is too crude for an autonomous institution in pursuit of excellence. The UGC has come out with the LOCF for history, crafted by renowned historians and social scientists The preamble to the LOCF opens with the prophecy that history is “a vital source to obtain knowledge about a nation’s soul”. Thus, to begin from the beginning, the learners are to be introduced to the ‘idea’ of ‘Bharat’ — the extent, geography and concept of which are outlined by the ‘Bharatvarsha’.History — as a discipline and what is worth teaching as history — is a highly contested domain. History shapes our present; those who do not learn from it are doomed. The LOCF’s emphasis is on learning the ‘right’ history, for only this can introduce the learner to the ‘soul’ of the nation.

Session III & Session IV (14.15-17.30)

Valedictory

REC

Prof. K.L. Verma, praful nande, Shailendra Saraf, Lieutenant Dr. A..., Shampa Chaubey, Naresh Madavi, Dr. Nandkishor M..., yogendra sahu, Ambika Dhaka

Kishor Chauri, shinjini Gan Cho..., DR.SAMARESH M..., Sarojini N Hosakeri, Barnali Barman, Anil pardhi, Dr. Mahendra Ku..., Narayan Rao Sa..., Reena Mujalde

Gargi Rajurwade, Brijendra Pandey, Biswarup Saha, JYOTI PRABHA, Joygopal Singha..., SK ASIF IQBAL, ANANT MARKALE, mahakinee dhal, Surash G.Dodda...

Gyanesh Shukla, Subhajit Ghosh, SUSANTA ROY, Jagabandhu Sar..., NITIN PANDEY, Ritabrata Goswa..., Rishi Pandey, You

3:44 PM | Online Refresher Course

35

ORGANIZING TEAM



Prof. K. L. Verma
Vice Chancellor
Pt. RSU, Raipur
(C.G.) India



Dr. Shailendra Saraf
Director
HRDC, Pt. RSU,
Raipur (C.G.) India



Dr. Shampa Choubey
(Course Coordinator)
Head of Department
(History)
D.B. Girls PG College
Raipur (C.G.)
India



Dr. Brijendra Pandey
Assistant Professor
HRDC, Pt. RSU, Raipur (C.G.)
India

UGC-HRDC, PRSU, Raipur

Refresher Course on History (18/10/2021 to 30/10/2021)

TIME TABLE

DATE	Session -I (10:30 to 12:00)	Session –II (12:15 to 13:45)	Session -III (14:15 to 15:45)	Session –IV (16:00 to 17:30)
First Week				
<i>Day 01 18/10/21 Mon</i>	REGISTRATION, INAUGURATION & INDUCTION	Lecture 1 India's contribution to the world of knowledge-Heritage and legacy. Dr. Vibha Tripathi Dept. of Ancient Indian History Banaras Hindu University(UP) Ph:94533-12719 mailto:vibhahist@gmail.com	Lecture 2 Untouched Aspects of Indus Valley Civilization. Dr. Vasant Shinde Ex Vice Chancellor Deccan University,Pune(Mh) Ph:91589-88893 mailto:vasant.shinde@dcpune.ac.in	Lecture 3 Power of Subconscious mind-learning from our Indian History and Culture. Dr. B.K Shrivastava Dr. HarisinghGour University Sagar (MP) Ph:24256-35675 mailto:shribk2000@gmail.com
<i>Day 02 19/10/21 Tues</i>	Lecture 4 Intangible Heritage of India & its Sustainability. Dr. Usha Agrawal Dept of History & Tourism Govt. PG College Mandsaur(MP) mailto:agrawalusha1@gmail.com	Lecture 5 The Impact of Religious Revolution in ancient India. Dr. Archana Sharma Dept of Ancient Indian History Banaras Hindu University(UP) Ph:91401-96887 mailto:aiharchana@gmail.com	Lecture 6 Mauryan Art and Architecture. Dr. Anant Ashutosh Dwivedi Director General Heritage Society ,Patna(Bihar) Ph:77619-02685 mailto:heritagesociety.in@gmail.com	Lecture 7 The Role of Religious Sects in Agrarian Movements of Colonial India. Dr. Sanjay Swarnkar Dept. of History Govt. K.R.G.P.G College Gwalior(MP) Ph: 93011-16371 mailto:sswarnkar2@gmail.com
<i>Day 03 20/10/21 Wed</i>	Lecture 8 Gandhi and his reflections with Geeta Dr. B.K Shrivastava Dr.HarisinghGour University Sagar (MP) Ph:24256-35675 mailto:shribk2000@gmail.com	Lecture 9 Objectivity in Historiography. Dr Ashok Patnaik Dept of History Utkal University, Bhubaneswar Ph:95562-73346 mailto:profakpatnaikhod@gmail.com	Lecture 10 Micro Teaching (Sr. no 1-10) Dr. Brijendra Pandey HRDC Pt. RSU, Raipur. Ph:98271-59831 mailto:brijpandey09@gmail.com	Lecture 11 Micro Teaching (Sr. no 10-20) Dr. Brijendra Pandey HRDC Pt. RSU, Raipur. Ph:98271-59831 mailto:brijpandey09@gmail.com
<i>Day 04 21/10/21 Thurs</i>	Lecture 12 Historical Criticism. Dr Ashok Patnaik Dept of History Utkal University, Bhubaneswar Ph:95562-73346 mailto:profakpatnaikhod@gmail.com	Lecture 13 Characteristics of Indian Culture Dr. Kamlesh Sharma Dept. of History VardhamanMahaveer Open University Kota,Rajasthan Ph: 94133-51569 mailto:profkamleshsharma@gmail.com	Lecture 14 Bharatvarsha - Avdharna, Rashtrachintan and Swabodh. Dr. I.S.Vishwakarma Chairman U.P.Higher Education Services Commission 18A,Nyay Marg Prayagraj(UP)-211001 Ph: 99344-00244 mailto:isvishwakarma@gmail.com	Lecture 15 Micro Teaching (Sr. no 21-30) Dr. Brijendra Pandey HRDC Pt. RSU, Raipur. Ph:98271-59831 mailto:brijpandey09@gmail.com

Day 05 22/10/21 Friday	<p>Lecture 16</p> <p>Revolt of 1857 in Chhattisgarh & Intellectual awakening in Chhattisgarh.</p> <p>Dr. R.N.Mishra Former HOD(History) Pt. Ravishankar University Raipur(CG) Ph:98271-79479 mailto:mishraramendra89@mail.com</p>	<p>Lecture 17</p> <p>Indian conceptualization of History & Writing.</p> <p>Dr. Deenabandhu Pandey Member Indian Council of Social Science Research Ph:89014-02928 mailto:sanskritishodh@gmail.com</p>	<p>Lecture 18</p> <p>Muriya Revolt and Bhumkal Movement In Bastar.</p> <p>Dr. K.K. Agrawal Retd. Professor Dept. of History Pt. Ravishankar University Raipur(CG) Ph:98933-73345 mailto:kishore.agrawal1955@gmail.com</p>	<p>Lecture 19</p> <p>Role of women in Indian Independence.</p> <p>Dr.Pratibha Pandey Dept of History MohanlalSukhadiaUniversity,Udaipur(RJ) Ph:75971-90099 mailto:dr_pratibha_pandey@yahoo.com</p>
	<p>Lecture 20</p> <p>Uprising, Perspective & Understanding Of 1857(historiography, facts, interpretation, nature of uprising.)</p> <p>Dr. Sushma Trivedi Dept. of History NavyugKanyaMahavidyalaya Lucknow University(UP) Ph: 96486-61562 mailto:drsushmat2014@gmail.com</p>	<p>Lecture 21</p> <p>History of Jammu & Kashmir (1846-1947)-Trends in Historiography & Observations.</p> <p>Dr. Sindhu Kapoor Dept of History(Cultural Heritage) Cluster University Of Jammu Ph: 94198-03710 mailto:sindhuksahi@gmail.com</p>	<p>Lecture 22</p> <p>Values in Indian Freedom Movement</p> <p>Dr. Sanjay Kumar Principal Govt Degree College,Satpuli PauriGarhwal,Uttarakhand Ph: 96396-39143 mailto:sanjaykumarsuvan@gmail.com</p>	<p>Lecture 23</p> <p>Bias in Historical Research</p> <p>Dr. Mukesh Kumar Dept of History Magadh University Bodhgaya(Bihar) Ph: 94302-00268 mailto:mkhist20@gmail.com</p>
Second Week				
Day 07 25/10/21 Mon	<p>Lecture 24</p> <p>Contribution of Raja Ram Mohan Roy in Social Reformatations in India.</p> <p>Dr. Manish Sinha Dept. of History Bodhgaya University,Bihar Ph: 99344-06865 mailto:manishsinha864@gmail.com</p>	<p>Lecture 25</p> <p>Nation and Nationalism in reference to India.</p> <p>Dr. Ratneshwar Mishra Dept of History Lalit Narayan Mithila University Darbhanga(Bihar) Ph: 93349-20585 mailto:profrmishra45@gmail.com</p>	<p>Lecture 26</p> <p>SEMINAR (Sr. no 1-10)</p> <p>Dr. D. N. Roy Dept. of History Bhagalpur University(Bihar) Ph: 99340-07367 mailto:dayanand.bsp@yahoo.com</p>	<p>Lecture 27</p> <p>AzaadiKa Amrit Mohotsav: Idea & Aim (India's Struggle for Independence & Cultural Nationalism)</p> <p>Dr. Om Jee Upadhyay Director(Research & Administration) Indian Council of Historical Research. Ph: 94527-35221 mailto:director.ra@ichr.ac.in</p>
	<p>Lecture 28</p> <p>SEMINAR (Sr. no 11-20)</p> <p>Dr. D. N. Roy Dept. of History Bhagalpur University(Bihar) Ph: 99340-07367 mailto:dayanand.bsp@yahoo.com</p>	<p>Lecture 29</p> <p>SEMINAR (Sr. no 20-30)</p> <p>Dr. D. N. Roy Dept. of History Bhagalpur University(Bihar) Ph: 99340-07367 mailto:dayanand.bsp@yahoo.com</p>	<p>Lecture 30</p> <p>Role of Subhash Chandra Bose in Freedom Movement.</p> <p>Dr. Subhash Dutt Jha Dept of History Nalini Prabha Deo Prasad College Bilaspur(CG) Ph: 98279-62196 mailto:abhasubhash@gmail.com</p>	<p>Lecture 31</p> <p>The concept of Indian National Congress.</p> <p>Dr. Anand Burdhan School of Heritage,Research & Management Dr.B.R.AmbedkarUniversity,Delhi Ph: 88009-45696 mailto:researchbydranand@gmail.com</p>
Day 08 26/10/21 Tues				

<p><i>Day 09 27/10/21 Wed</i></p>	<p>Lecture 32</p> <p>The Role of Shivaji in the upliftment of Hindu Culture.</p> <p>Dr. Anand Burdhan School of Heritage, Research & Management Dr.B.R.AmbedkarUniversity, Delhi Ph: 88009-45696 mailto:researchbydranand@gmail.com</p>	<p>Lecture 33</p> <p>Vivekananda on practical Vedanta, Integral Yoga, Concept of Universal Religion, Philosophy of Education.</p> <p>Dr. RajniShrivastava Dept of Philosophy Lucknow University(UP) Ph : 98386-07000 mailto:rajnisriva063@gmail.com</p>	<p>Lecture 34</p> <p>Project Presentation Panel Discussion (Sr. no.1-10)</p> <p>Dr. Hansa Vyas Dept. of History Govt. Narmada College Hosangabad(MP) Ph: 94253-66286 mailto:hansa.vyas@rediffmail.com</p>	<p>Lecture 35</p> <p>Project Presentation Panel Discussion (Sr. no.11-20)</p> <p>Dr. Hansa Vyas Dept. of History Govt. Narmada College Hosangabad(MP) Ph: 94253-66286 mailto:hansa.vyas@rediffmail.com</p>
<p><i>Day 10 28/10/21 Thurs</i></p>	<p>Lecture 36</p> <p>Science & Technology in Ancient India</p> <p>Dr. Subhash Dutt Jha Dept of History Nalini Prabha Deo Prasad College Bilaspur(CG) Ph:98279-62196 mailto:abhasubhash@gmail.com</p>	<p>Lecture 37</p> <p>Role of Swami DayanandSaraswati in the upliftment of Indian Society.</p> <p>Dr. MeenaGour Dept of History MohanlalSukhadia University Udaipur(Raj) Ph:98296-59786 mailto:gaurmeena786@gmail.com</p>	<p>Lecture 38</p> <p>Project Presentation Panel Discussion (Sr. no.21-30)</p> <p>Dr. Hansa Vyas Dept. of History Govt. Narmada College Hosangabad(MP) Ph: 94253-66286 mailto:hansa.vyas@rediffmail.com</p>	<p>Lecture 39</p> <p>MCQs</p>
<p><i>Day 11 29/10/21 Friday</i></p>	<p>Lecture 40</p> <p>Contribution of Dr.B.R.Ambedkar in Indian Independence.</p> <p>Dr. Deepak Gaikwad Dept of History SavitribaiPhuleUniversity(Pune) Ph:98220-37155 mailto:dsgaikwad1962@gmail.com</p>	<p>Lecture 41</p> <p>Challenging Conservation of temples in Chambal valley.</p> <p>Padma Shri K .K. Muhammed Indian Archaeologist Regional Director (retd.) Archaeological Survey of India. Ph:88868-13447 mailto:kkmohdtk@gmail.com</p>	<p>Lecture 42</p> <p>Bharat kaltihaas, Swaraj aurSwavalamban.</p> <p>Dr. Chandrashekhar Pran Director(Retd.) Nehru Yuva Kendra Sangathan Ministry of Youth Affairs & Sports GOI Ph: 84007-02128 mailto:cspran854@gmail.com</p>	<p>Lecture 43</p> <p>Sacred & Profane elements in Ancient & Medieval Indian Numismatics.</p> <p>Dr. Archana Sharma Dept of Ancient Indian History Banaras Hindu University(UP) Ph:91401-96887 mailto:aiharchana@gmail.com</p>
<p><i>Day 12 30/10/21 Sat</i></p>	<p>Lecture 44</p> <p>Role of SardarVallabhbhai Patel in Integration of States.</p> <p>Dr. Mukesh Tiwari Vice Chancellor P.Shambhunath Shukla University Shahdol(MP) Ph:78793-92976 mailto:mkhhistory61@gmail.com</p>	<p>Lecture 45</p> <p>Learning Outcome Curriculum Framework-History Syllabus: A Paradigm Shift.</p> <p>Dr. Himanshu Chaturvedi Member Indian Council of Historical Research, New Delhi Ph:94152-83447 mailto:h.chaturvedi111@rediffmail.com</p>	<p><u>VALEDICTORY & CONCLUDING SESSION</u></p>	

Refresher Course – History

(18.10.2021 to 30.10.2021)

Participants List

Course Coordinator –Dr. Shampa Choubey

Sr. No.	Name of Participant	email	Mobil No.	Designation	College	Name of the affiliating University
01.	Dr. Shinjini Gan Choudhury	shinjinigo2903@gmail.com	9830466539	Assistant Professor	Vidyasagar College for Women, Kolkata, (W.B.)	Calcutta University, Kolkata, (W.B.)
02.	Dr. Samaresh Mondal	samaresh86p@gmail.com	09153734129	Assistant Professor	Midnapore College (Autonomous), Midnapore, (W.B.)	Vidyasagar University, Midnapore, (W.B.)
03.	Susanta Roy	roy.susant85@gmail.com	08158933887	Assistant Professor	Hingaljanj Mahavidyalaya, Hingaljanj, North 24 Parganas, (W.B.)	West Bengal State University, Barasat, North 24 Parganas, Kolkata, (W.B.)
04.	Jagabandhu Sardar	jagabandhusardar03@gmail.com	8617349134	Assistant Professor	Panchur College, Kolkata, (W.B.)	University of Calcutta, Kolkata, (W.B.)
05.	Sk Asif Iqbal	sai.indiall@gmail.com	8926846129	Assistant Professor	Vivekananda Mahavidyalaya, Burdwan, Bardhaman, (W.B.)	University of Burdwan, Bardhaman, (W.B.)
06.	Dr. Naresh Madhukar Madavi	madavinaresh@gmail.com	8888282463	Assistant Professor	Post Graduate Teaching Department of History,	Gondwana University Gadchiroli, (M.S.)
07.	Dr. Reena Mujalde	Mujaldereena9@gmail.com	9993855234	Assistant Professor	Govt. Mahaveer College, Petlawad, (M.P.)	Devi Ahilya Vishwavidyalaya, Indore, (M.P.)
08.	Dr. Smt. Anusuiya Jogi	anujogi74@gmail.com	9770583974	Assistant Professor	Govt. Danveer Tularam P.G. College, Utai, Dist-Durg, (C.G.)	Hemchand Yadav University, Durg, (C.G.)
09.	Prof. Sarojini N. Hosakeri	sarojinihosakeri1976@gmail.com	9611730060/ 8660616655	Assistant Professor	Govt. First Grade College, Navanagar, Bagalkot, Karnataka	Rani Channamma University, Belagavi, Karnataka

10.	Dr. AnantDadaraoMarkale	markaleanant@gmail.com	9623739837	Assistant Professor	Yeshwantrao Chavan Arts, Commerce and Science College, Ambajogai, (M.S.)	Dr. BabasahebAmbedkarMarathwada University, Aurangabad, (M.S.)
11.	Nandkishor P. Mane	nandupmane@gmail.com	7304904265	Assistant Professor	Post Graduate Teaching Department of History.	Gondwana University Gadchiroli, (M.S.)
12.	PrafulVitthalraoNande	prafulnande99@gmail.com	9403299563	Assistant Professor	Post Graduate Teaching Department of History.	Gondwana University Gadchiroli (M.S.)
13.	Anil Kumar Pardhi	Anil81pardhi@gmail.com	9303625174	Assistant Professor	Late Shri JaidevSatpathi Govt. College, Basna. Dist- Mahasamund(C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
14.	Praful Manohar Rajurwade	rajurwadep9@gmail.com	9689952873	Assistant Professor	RashtrasantTukdoji College, Chimur, Dist- Chandrapur(M.S.)	Gondwana University Gadchiroli, (M.S.)
15.	Dr. KishorSheshraoChature	chaurekishor12@gmail.com	9028616685	Assistant Professor	Mahatma JyotibaFuleMahavidyalaya, Ballarpur, Dist-Chandrapur (M.S.)	Gondwana University Gadchiroli, (M.S.)
16.	Dr. Suresh Doddamani	drsureshgd68@gmail.com	08971492204	Assistant Professor	Govt. First Grade Collage, Alnavar, Dharwad (Karnataka)	Karnataka University, Dharwad, Karnataka
17.	Gyanesh Shukla	gyanesh.shukla007@gmail.com	9300305456	Assistant Professor	Badri Prasad Lodhi Govt. P.G. College, Arang, Dist-Raipur (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
18.	Dr. Jyoti Prabha	jyotisahiba4a@gmail.com	9582093802	Assistant Professor	Maharani RameshwariMahila College(M.R.M. College), Darbhanga, Bihar	Lalit Narayan Mithila University, Darbhanga, Bihar

19.	Dr. Mahendra Kumar Sarva	mksarva@db girls.org	8959816062	Assistant Professor	Govt. DudhadhariBajrang Girl's P.G. Autonomous College, Raipur, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
20.	Dr. Ambika Dhaka	ambikadhaka@gmail.com	99836 54990	Assistant Professor	Maharaja Ganga Singh University, Bikaner (Rajasthan)	
21.	JoygopalSingha	joygopalsingha@gmail.com	9832307637	Assistant Professor	GazoleMahavidyalya, Gazole (W.B.)	University of Gour Banga, Mokdumpur, Malda, (W.B.)
22.	Dr. Biswarup Saha	biswarup@patiramhistory.in	9775804992	Assistant Professor	JaminiMazumder Memorial College, Patiram, Uttar Roypur (W.B.)	University of Gour Banga, Malda, (W.B.)
23.	RitabrataGoswami	ritabrataswami@gmail.com	7001848664	Assistant Professor	Kaliachak College, Sultanganj, Malda, (W.B.)	University of Gour Banga, Malda, (W.B.)
24.	Mandakinee Dhal	mandakineed2@gmail.com	7381538173	Lecturer	Nilgiri College, Balasore (Odisha)	Fakir Mohan University, Balasore, Odisha
25.	Dr. Rishiraj Pandey	dr.rishirajpandey1974@gmail.com	8878172827	Assistant Professor	Govt. Gajanand Agrawal P.G. College, Bhatapara, Dist-Balodabazar, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
26.	Nitin Pandey	nitinpandey.raipur@gmail.com	9575265702	Assistant Professor	ChaiytuGayta (Alor) Govt. College, Pharasgaon, (C.G.)	Shaheed Mahendra Karma University, Bastar, Jagdalpur, (C.G.)
27.	Subhajit Ghosh	subha.sjg@gmail.com	9477483286	Assistant Professor	Plassey College, Plassey, Mira Bazar, Dist-Nadia, (W.B.)	University of Kalyani, Kalyani, Nadia, (W.B.)
28.	Narayan Rao Sawarkar	narayanraosawarkar@gmail.com	8871086003	Assistant Professor	New Govt. College, Nawagarh-Dist, JanjgirChampa (C.G.)	SaheedNand Kumar Patel Vishwavidyalaya, Raigarh, (C.G.)
29.	Yogendra Kumar Sahu	lsahuyogendra@gmail.com	8962241406	Assistant Professor	Govt. College, FASTERPUR, Dist-Mungeli (C.G.)	Atal Bihari Vajpaiee University, Bilaspur, (C.G.)
30.	Barnali Barman	barnalibarnan080@gmail.com	8777789098	Assistant Professor	Dinabandhu Andrews College, Kolkata (W.B.)	Calcutta University, Kolkata, (W.B.)

Refresher Course – History

(18.10.2021 to 30.10.2021)

Chairpersons & Reporters List

Course Coordinator –Dr. Shampa Choubey

Date	<u>Chairperson</u>	<u>Reporter</u>	<u>Chairperson</u>	<u>Reporter</u>
	<i>1st Half</i>		<i>2nd Half</i>	
18.10.2021	Dr. Ajay Shankar Yadav	Jagabandhu Sardar	Prof. Sarojini N. Hosakeri	Praful Manohar Rajurwade
19.10.2021	Dr. Shinjini Gan Choudhury	S.K. Asif Iqbal	Yogendra Kumar Sahu	Dr. Kishor Sheshrao Chaure
20.10.2021	Dr. Samaresh Mondal	Barnali Barman	Dr. Anant Dadarao Markale	Dr. Suresh Doddamani
21.10.2021	Susanta Roy	Dr. Naresh Madhukar Madavi	Nandkishor P. Mane	Gyanesh Shukla
22.10.2021	Madhab Chandra Ray	Dr. Reena Mujalde	Praful Vitthalrao Nande	Dr. Jyoti Prabha
23.10.2021	Barnali Barman	Dr. Smt. Anusuiya Jogi	Anil Kumar Pardhi	Dr. Mahendra Kumar Sarva
Sunday				
25.10.2021	Dr. Ambika Dhaka	Nitin Pandey	Narayan Rao Sawarkar	Dr. Anant Dadarao Markale
26.10.2021	Joygopal Singha	Subhajit Ghosh	Gyanesh Shukla	Nandkishor P. Mane
27.10.2021	Dr. Biswarup Saha	Dr. Ajay Shankar Yadav	Dr. Jyoti Prabha	Praful Vitthalrao Nande
28.10.2021	Ritabrata Goswami	Dr. Shinjini Gan Choudhury	Dr. Mahendra Kumar Sarva	Anil Kumar Pardhi
29.10.2021	Mandakinee Dhal	Dr. Samaresh Mondal	Praful Manohar Rajurwade	Prof. Sarojini N. Hosakeri
30.10.2021	Dr. Rishiraj Pandey	Susanta Roy	Dr. Kishor Sheshrao Chaure	Yogendra Kumar

States wise Participants



- ▣ Chhattisgarh - 8
- ▣ west Bengal – 10
- ▣ Madhya Pradesh - 3
- ▣ Maharashtra - 6
- ▣ Karnataka-2
- ▣ Bihar-1
- ▣ Odisha-1
- ▣ Rajasthan-1

Assessment Criterion and Marking:

Multiple-choice objective tests:	30
Seminars / participant presentation:	15
Project / survey / others:	20
Micro-teaching / participation:	10
Holistic response:	25
Total:	100

Grading pattern (based on Marks)

A+ :	85 percent and above
A :	70 percent to less than or equal to 84 percent
B :	60 percent to less than or equal to 69 percent
C :	50 percent to less than or equal to 59 percent
F :	Below 49 percent

Those teacher participants who score F grade are required to repeat the program after a gap of one year without financial commitment to UGC-HRDC.

Online Delivery Platform: GOOGLE MEET



UGC - Human Resource Development Centre

Pt. Ravishankar Shukla University, Raipur



Organized

**Online Refresher Course in
Commerce and Management**

November – 11 to 25, 2021

Report

Name of Course/Program:	Online Refresher Course in Commerce and Management
Name of Contact person from HRDC:	Dr. Brijendra Pandey
Date of Course/Program:	11.11.2021 to 25.11.2021
Name of Course Coordinator:	Prof. A.K. Shrivastava, Professor School of Studies in Management, Pt. Ravishankar Shukla University, Raipur
Theme of Course/Program:	Contemporary issues in Commerce & Management
Number of Participants:	37
State wise number of participants:	State(06)- C.G.-19, Maharashtra-08, U.P.-01, Gujarat-02, Kerala-02, Tamil Nadu-05
Gender wise number of participants:	Male – 22, Female – 15
Number of Resource Persons	40
Name and Signature of Course Coordinator	
Prof. A.K. Shrivastava SoS in Management, Pt. Ravishankar Shukla University, Raipur (C.G.)	Dr. Brijendra Pandey Assistant Professor HRDC, Pt. RSU, Raipur (C.G.)

Refresher Course in Commerce and Management (11.11.2021 - 25.11.2021)

A Refresher Course on “Commerce and Management” was organized by Human Resource Development Centre, Pt. Ravishankar Shukla University Raipur, in collaboration with School of Studies in Management, Pt. Ravishankar Shukla University, Raipur from 11th -25th , November 2021. The course was attended by thirty Seven registered participants from across the country. 32 outstation and 05 local participants attended the same. 40 resource persons delivered lectures.

DAY 1

Session I (10.30-12.00) Inaugural Function

The Programme commenced with the Inaugural Function at 10.00 a.m. with **Chief guest as Hon’ble Vice Chancellor Prof. Keshari Lal Verma, Pt Ravishankar Shukla University, Raipur.** With Director sir and Course Co- Ordinators, the Programme commenced by welcoming them ,which was followed by Introduction of the Participants, Introduction about the course by Course Co-Ordinator and Address by the Director HRDC- Pt RSU.

Inaugural Address was given by Hon’ble Vice Chancellor who focused on the developments in Commerce and Management and how updated the Professors must be by using such useful courses. Finally Vote of Thanks was given by Course Co-Ordinator.



Session II (12:15 to 13:45)



1. Dr. Kinnarry Thakkar, The first session commenced by welcoming the session's Resource person CMA Dr. Kinnarry Thakkar, Professor and Head, Department of Commerce, University of Mumbai. She was welcomed by the session's chairperson Mr. Manoj Kumar Sharma .The Resource Person enriched the session with Advance Rulings in GST. Starting from its Overview, Basic concepts, Features, Benefits, Advance Ruling Concepts, Anti-Profiteering Rules, she explained very clearly with appropriate examples and case studies. The session was very useful and all the participants took part actively with interacting and clarifying their doubts.

Session III (14.15 to 15.45)



2. Dr. Saurabh is conducted on topic entitled “Social Entrepreneurship” by Resource Person **Dr. Saurabh Sir**, respected and honorable Associate Professor & Head, Department of School of Business Management, Shri Mata Vaishnodevi University, Katra, Jammu & Kashmir (Union Territory).

Respected Dr. Saurabh Sir has covered Concept of Social Entrepreneurship, Importance of Social Enterprises in Development & Design for Social Enterprises in the context of our developing economy India. Respected Sir has explained the concept of “What is the Relationship between Yourself & the misery, the confusion in and around you?”. Respected Sir has ahead said that we have to work in terms of Sustainability & have to grasp opportunities around us as Our Country India is on a growth trajectory.

Respected Sir has also discussed concepts like ‘Hope & Gross National Happiness’ and focused on ‘Creation of Local Opportunities & Local National Development’. Respected Sir has also given examples of Social Enterprises working in India. i.e. Naandi Community Water Services, Simpa Energy, Mrida Group & Dharma Life Foundation.

Respected Sir has also taught the concept of ‘Social Mission & Philanthropy of CSR’ with the help of NPOs and BOs. The concept of Social Enterprise was given by Dees in the year 1998. Due weightage should be given to create & sustain Social Value and not just Private Value. And also recognizing & relentlessly pursuing new opportunities to serve that mission. The concept of Social Enterprise has much developed in last 2 decades, attracting the eyes of Scholars, Practitioners & Academicians.

Respected Sir has also given detailed outline about 'Design for Social Enterprises' in the context of Our Country India. Surely the construct of Social Enterprise provides for 'Udyam with Dharma'. Also explained the design for Social Enterprise with the help of 4 ends of man as per the Hindu Attitude i.e. Dharma, Artha, Kama & Moksha. Lastly respected sir has also given overall view on 'Sambhaav, Seva, Dharma, Sadbahav & Samriddhi' with the help of diagram.

Session IV (16.00 to 17.30)



3. Prof. Harendra Kumar Singh is arranged on topic entitled "Managerial Application of Marginal Costing in Present Scenario" by Resource Person **Prof. Harendra Kumar Singh**, respected and honorable Ex. Vice-chancellor, Faculty of Commerce, Banaras Hindu University, Varanasi. Initially respected sir has explained the concept of Empirical Research and said research is to be based on primary data.

Respected Sir has also explained the various aspects like Extensive Activities, Good Governance, Turn around Management, Business Ethics, Applied Commerce, ANBA (Aatma Nirbhar Bharat Abhiyaan – Self Reliant India), Case Study Method, Dumping, Aayush, Professionalism, Well Managed Economy, Mismanaged Economy, IMS (Indian Management Services) & PMS (Provincial Management Services) and Inclusive Growth. Respected sir has also explained the latest concept of Business Education comprising Commerce, Economics & Management.

Respected Sir has taught the whole Concept of Marginal Costing with the help of Practical Example concerning Product 'X' & Product 'Y'. The whole Practical Example was solved by him. During solution of Practical Example, Respected Sir has given detailed understanding about P/V Ratio (Profit-Volume Ratio), BEP (Break

Even Point) Sales, Margin of Safety Sales & Angle of Incidence and their formulas. Which product will remain profitable in the case of heavy demand & low demand, is also taught by him in detail along with discussion.

DAY 2

Session I (10.30-12.00)



4. Prof. Kalpataru Bandopadhyay, Vidyasagar University, West Bengal. He was welcomed by the session's chairperson Mr. Shivram Singh Shyam. The resource person explained about "COVID -19 Pandemic: Impact and Strategy of Real Estate Sector". The impact of coronavirus on the Indian real estate sector was stifling to the point that it brought property transactions to a near – halt when the country went to a complete lock down. However, with an aggressive vaccination drive across India, the real estate sector has started showing signs of a sustainable recovery. The session was very useful and all the participants took part actively with interacting and clarifying their doubts.

Session II (12.15-13.45)



5. Dr. N.L. Sharma, Former Principal, Bareilly College, Uttar Pradesh. He was welcomed by the session's chairperson Mr. Shivram Singh Shyam. The resource person explained about "Financial Wellbeing and Happiness". He insists that absolute levels of income matter till the basic needs are met. The life style and income level depends on how we rank the order and select it, as savings are important to protect the financial well-being in the future.

Session III (14:15 to 15:45)



6. Dr. Debabrata Mitra, Professor, Department of Commerce, University of Bengal. He was welcomed by the session's chairperson Mr. Suryabhan Singh Paikra. The resource person clearly explained about the "Time Management". He started with the concept of time and management of time followed by the tools and techniques of time management, myths of the time management, role of time waster at managerial level and the prevalent time waster. He also insisted that time has to be planned for personal and official commitments so as each and every one can attain their output in well planned manner.

Session IV (16:00 to 17:30)



7. Dr. Akhil Mishra, Faculty of Commerce, BHU, Varanasi. He was welcomed by the session's chairperson Mr. Suryabhan Singh Paikra. The resource person clearly explained about the "Management Information System". He shared his views as the management expects right time, right job, right person, and right thing in all the right ways technically. He also state that it was the computer based information for the proper decision making activity in all the aspects.

Day 3

Session I (10.30-12.00)



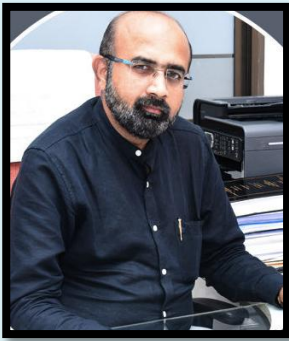
8. Prof. Manas Pandey, In first session of third day Prof. Manas Pandey, Dept of business, economics faculty of management studies Jabalpur university a very dynamic personality having experience in teaching, research work and other academic responsibility was our Resource person for session one. He gave lecture address on how to prepare yourself for Research project. He enlighten us in many things related to research project. He also focused on research proposal, research methodology, Research area. That was very informative and fruitful session for us.

Session II (12.15-13.45)



9. Mr. Khushendra Mishra, The second half session of 3rd day was arranged on topic “Emerging Novel proposition to Research in management and commerce.” By resource Person Mr. Khushendra Mishra, Head & Dean, School of Commerce and Management, B. B. Ambedkar, University, Lucknow. Sir has explained us new innovation for research work, discussed us emerging Novel proposition to Research in management and commerce. New tools, techniques, methods, for research work. He also enlightened research methodology, hypothesis and Data Collection and interpretation

Session III (14:15 to 15:45)



10. Dr. Nilesh R. Berad, B. Pharmacy, M.B.A. Ph.D., a versatile personality having experience in teaching, research & industry for over 21 years, was our resource person for Session 3. He gave a key note address on Impact of Society on Business. He enlightens us in many things regarding how society impacts on business in terms of Macroeconomics. He also included in his lecture about the Pluralistic Society, relationship between the Business & Stakeholders, factors influencing the Social Environment, Social contract, Managerial Approach on Social Environment, Ethical theme, Sustainability theme and Stakeholder theme in Business survival. He explained all those concepts with so much of suitable and business life oriented examples. The session was so interactive and informative.

Session IV (16:00 to 17:30)



11. Prof. H.C. Purohit, 4th Session is arranged on topic entitled “Measurement of GEP: A tool for Sustainable Economic Development” by Resource Person Prof. H.C. Purohit, Head of the Department, School of Management and Dean, Students Welfare, Doon University, Dehradun. Respected sir has explained many tools for measuring GEP and how it influences the Economic Development of a Nation. He also included many other measurement tools like, GDP, GNI, Happiness Index, Human Development Index and many other Development Parameters which contribute to Economic Growth. It’s really an eye-opening session that how we all should be responsible in preserving our Environment and the resources for the well being of society towards Sustainable Abundance and Economic Prosperity. He also given many updated information regarding Eco-system services, Genuine Progressive Index, Index on Sustainable Economic Welfare and the way he correlates those aspects with the Quotes and explanation given by the experts and Economists were quite interesting.

Day 4

Session I (10.30-12.00)



12. Dr. Yogesh Kumar Sharma, First session of the day started on 10.30 am with the welcome of Dr. Yogesh Kumar Sharma the resource person for the session by the chairperson of the day Prof. Rakesh Minj. The resource person Dr. Sharma was introduced as the, Faculty of Commerce, University Of Rajasthan, Jaipur, Ex Vice Chancellor, Singhania University . Dr. Sharma delivered the talk on “Online learning Process: challenges and solutions”. In his lecture Dr. Sharma talked about various hurdles in online learning mainly internet connectivity, lack of mobile phones, laptops, computers with the students, unavailability of sufficient data and then mental and physical health disorder due to constantly watching the screen. Then he talked on the possible solutions for to these problems like the interaction with the students, keeping video on during the online class, feedback from students and allotting breaks between the classes. The session ended at 12 noon with vote of thanks to the resource person by Prof. Manoj Kumar Sharma.

Session II (12.15-13.45)



13. Prof. Badruddin Ahmad, Second session of the day started on 12.30 pm. Prof. Rakesh Minj welcomed the resource person for the session Prof. Badruddin Ahmad, Faculty of commerce and Management, MANUU. The resource person delivered the talk on “Stress Management”. In his lecture he talked on various causes of stress and how to manage it in detail. He said that the stress could be due to ambience, family situation, psychological, excessive work load etc. Then he suggested many ways to manage the stress like listening music, touring to tourist place, sports, reading good literature, Yoga, Meditation etc.

Session III (14:15 to 15:45) & Session IV (16:00 to 17:30)

Micro Teaching



14. Resource Person and Evaluator:

Prof. Sampada Kumar Swain, Pondicherry University

Chair Person: Rohan Agrawal, Govt. Gajanand Agrawal
P.G. College, Bhatapara, (C.G.)

Reporter: Dr. C. Madhesh, Assistant professor of Commerce,
Govt.Arts College(Autonomous), Salem, Tamil Nadu.



15. HRDC Coordinator: Dr Brijendra pady

Course Coordinator: Prof. A.K. Shrivastava

Resource Person and Evaluator:

Prof. Nagendra Yadav, Lucknow University

Chair Person: Rohan Agrawal, Govt. Gajanand Agrawal P.G.
College, Bhatapara, (C.G.)

Reporter: Dr. C. Madhesh, Govt. Arts College (Autonomous),
Salem, Tamil Nadu.

The following is the list of the Participants and their topic in Micro Teaching:

S.No	Name of theParticipant	Topic
1	Manoj Kumar Sharma	Time Management
2	Mr. Dilip Mukunda Nandeshwar	Types of Accounts
3	Rajendra Kumar Yadav	Residential Status(Income Tax)
4	Ritesh Kumar Nag	Valuation of Goodwill
5	Kamal Kishor Pradhan	Deductions (Income Tax)
6	Dr. Usha Daigavane (Awachat)	Social Responsibility ofBusiness
7	Shivram Singh Shyam	Concepts of Double EntrySystem
8	Ms. Ekta Rani Makkad	Business Communication
9	Rakesh Minj	Types of Company
10	Dr. Kirti Shrivias	Crypto Currency

11	Dr. Satish Bhaurao Barkar	Classifications of Business Activities
12	Dr. Neelam Gupta	Contract
13	Suryabhan Singh Paikra	Management Tasks
14	Dr. Amit K Srivastav	-
15	Mr. Viralkumar Hirabhai Kedaria	Different kinds of Leadership
16	Vijesh Venugopal	Redemption of Preference shares
17	Jothilakshmi E	Job Satisfaction
18	Dr. Pradip Manohar Joshi	Amalgamation of the Companies
19	Dr. Mukesh Kumar	Corporate Social Responsibility
20	Rohan Agrawal	International Trade Theories
21	Paresh Shantaram Khetal	Risk Management

Day 5

Session I (10.30-12.00)



16. Prof. (Dr.) Mohammed Abdul Azeem, is conducted on topic entitled “EMERGING ISSUES AND INNOVATIVE BUSINESS PRACTICES IN POST PANDEMIC TIME.” started at 10:30 a.m., Prof. (Dr.) Mohammed Abdul Azeem, through the medium of power point presentation with the slogan of Robert Tew (The struggle you’re in today is developing the strength you need tomorrow). This topic is divided in the three part 1st Marketing: An overview (before ICT era) 2nd Marketing in present era: Marketing in the era of ICT and 3rd Business practices in the present era is : during Covid -19. He focused and talked about Marketing mix, Other P’s, ICT in marketing, online or digital marketing, How do 7 P’s work in digital marketing, Other P’s of E-Marketing, Online/digital marketing advantages, Marketing trends in the era of ICT, Future marketing trends, Impact of Covid-19 on Indian business, Degree of impact and reasons, Change in consumer behavior during Covid-19, Emerging trends for shaping our organizations in future. This session was very informative and effective.

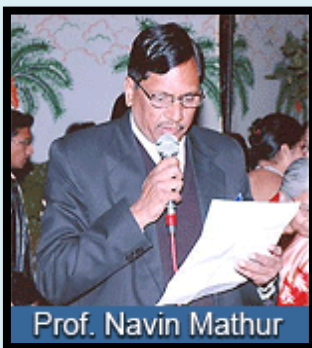
Session II (12.15-13.45)



17. Prof. (Dr.) Ashok Kumar Mishra, Head department of commerce and DRC Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur (C.G.). The topic of the pre-lunch sessions was “CONSUMER AWARENESS TOWARDS THE BANKING OMBUDSMAN SCHEME”. The expert asked all the participants to give their brief introduction. All the participants made themselves familiar with each other. Respected Sir has explained Meaning of banking, Structure of Indian Banking system, who is banking ombudsman, Mode of complaint, Types of complaint handled by the banking ombudsman, Appeal against the banking ombudsman and one case study about the awareness of the banking ombudsman. In the end of the session, he addressed the questions of the participants. This session was very interactive, informative, inspiring and innovative. Many participants actively contributed to the discussion and made the sessions a live discourse.

Session III (14:15 to 15:45) & Session IV (16:00 to 17:30)

Micro Teaching



18. Resource Person and Evaluator for Micro Teaching:
Prof. Dr. Navin mathur, Former- Voice Chancellor, Jagannath University, Jaipur (India)
Chair Person: Dr. Gourav Sharma, Govt. Chandulal Chandrakar College, Patan, Durg (C.G.)
Reporter: Dr. Uday maruti Lokhande, Assistant professor, Arts and Commerce College, Satara (M.H.)



19. Resource Person and Evaluator:

Prof. Dr. S.K. Sinha, Ranbir Singh University, Jind (Haryana)

Chair Person: Dr. Gourav Sharma, Govt. Chandulal

Chandrakar College, Patan, Durg (C.G.)

Reporter: : Dr. Uday Maruti Lokhande, Assistant professor, Arts and Commerce college, Satara (M.H.)

The following is the list of the Participants and their topic in Micro Teaching:

Sr.No.	NAME	TOPIC
14	Dr.Amit K Srivastav	The Marketing In Pandemic
22	Dr.E.karthika	Contract
23	Mrs.A.Bhuvaneshwari	Service Marketing
24	Dr.C.Madhesh	House Rent Allowances
25	Dr.Balagi S. Mudholkar	Sampling Methods
26	Dr.S.Deepa	Soft Skills For Students Enhancement & Employability
27	Dr.Vennila Gopal	Enterprise
28	Dr.B.Thulasipriya	-
29	Dr. Hotam Singh	Absent
30	Dr.Dewasish Mukhaji	Importance Terminology Of Income Tax
31	Nidhi Goenka	Types Of Bank Accounts
32	Dr.Shweta Mahakalkar	-
33	Dr.Gaurav Sharma	Indian Accounting standards
34	Mrs.Pinky Garg	Elasticity Of Demand
35	Soma Goswami	Grapevine Communication
36	Priya D Gedam	Market Segmentation
37	Dr.Uday Maruti Lokhande	Entrepreneur
38	Dr.Rajeshkumar Parmanand Chetiwal	Fire Insurance
39	Dr.Asha Ramteke	Green Marketing
40	Dr. Ekta Mishra	Business Cycle

The Participants actively presented their PPT'S and it was very informative and interesting to share the knowledge among themselves .The Resource person cum Evaluators gave their valuable feedback and suggestions to the participants which was very valuable to be treasured and implemented in their teaching

Day 6

Session I (10.30-12.00)

20. Prof. Ravinder Vinayak, The session commenced by welcoming the resource person Prof. Ravinder Vinayak by sessions Chairperson Mrs. Pinky Garg. The resource person enriched the session with an excellent coverage of the topic on Research in Commerce and Management: Beyond the Liminal. He covered and explained the dual role of a teacher in the present education system, importance of research and an insight to research process with live examples. The session was highly informative and resourceful for the entire participants of the course and all participants actively participated in the interactive session.



Session II (12.15-13.45)

21. Dr. Ran Singh Dhaliwal, The Chairperson of the session Mrs. Pinky Garg had introduced Dr. Ran Singh Dhaliwal, resource person of the session. The resource person had delivered a resourceful talk on Stress management, its adverse effect on physical and mental health of the individual in an organisation and other allied aspects. At the end of the session many participants actively participated in the discussion with the resource person and Mr. Vijesh Venugopal, reporter of the session proposed vote of thanks to Dr. Ran Singh Dhaliwal for his excellent presentation.



Session III & Session IV (Seminar)



22. Resource Person and Evaluator for Seminar:

Prof. Dr. H.M. JHA

(Department of Commerce and Management SSCET
Shegaon Amaravati University, Amaravati)

Chair Person: Soma Goswami, Mahant Laxminarayan Das
College, Raipur, Chhatisgarh

Reporter: Dr. Rajeshkumar P. Chetiwal, Assistant
professor, Arts and Commerce college, Satara(M.H.)

The following is the list of the Participants and their topic of seminar presented:

Sr.No.	NAME	TOPIC
1	Manoj Kumar Sharma	Motivation
2	Mr. dilip Mukunda Nandeshwar	Future scope of digital marketing
3	Rajendra kumar yadav	Income from house property
4	Ritesh kumar Nag	Double entry Accounting system
5	Kamal kishor pradhan	Valuation of goodwill
6	Dr. Usha Daigavane (Awachat)	Women empowerment
7	Shivram singh shyam	Pending
8	Ms. Ekta rani Makkad	Advertising management and decisions
9	Rakesh minj	Unemployment problem in India
10	Dr. kirti shrives	Impact of social commerce
11	Dr.satish bhaurao Borkar	Creating high growth Economic after pandemic
12	Dr. Neelam Gupta	Cost
13	Suryabhan Singh paikra	Schemes of Chhattisgarh govt.
14	Dr. Amit k srivastav	Market segmentation
15	Mr. Viralkumar Hirabhai Kedaria	Dividend trends of Banks
16	Vijesh Venugopal	Awareness of Tax Planning among Teachers
17	Jothilakshmi E	Financial statement analysis
18	Dr. Pradip Manohar Joshi	Outsourcing: Growth path for young India
19	Dr. Mukesh kumar	Pending
20	Rohan Agrawal	E-commerce

The Participants actively presented their seminar with their power point presentations. it was very informative and interesting session to share knowledge among themselves .The Resource person cum Evaluators Dr. H.M. JHA gave their valuable feedback and suggestions to the participants which was very valuable to be treasured and implemented in their teaching.

Day 7

Session I (10.30-12.00)



23. Prof. Arun Kumar, The first session of 7th Day was commenced by welcoming the resource person Prof. Arun Kumar, Dept. of Commerce & Business Administration, MONIRBA University of Allahabad by session chairperson Dr. Kirti Shrivastava. The resource person delivered a talk on “**e-learning in Higher Education.**”

Respected Prof. Arun Kumar Sir has covered Concept of e-learning in Higher Education, What is Online Education, MOOCs (Massive Open Online Courses), the status of online education in India, Key categories of online education, Category level Market Projection, Future of online Education in India.

Respected Sir has explained the concept of “Online Education Ecosystem” with B2C, C2C Model. Respected Sir also talked on Revenue Model in Online Education. Respected Sir has also discussed Online Higher Education Market Size in India, HE Market Characteristics, HE OLE Key trends and Challenges, HE OLE Key Motivational Factors to Adopt, HE OLE Key Challenges, and HE OLE Key Barriers to adoption of courses. Respected Sir has also taught on Overview of e-Learning Design & Development like Preparing Content and Creating Storyboards etc.

Session II (12.15-13.45)



24. Prof. Atul Pandey, The second session of 7th Day was commenced by welcoming the resource person Prof. Atul Pandey, Professor and Head Dept. Of Business Administration, A.P.S. University, Rewa (MP) by session chairperson Dr. Kirti Shrivastava. The resource delivered a talk on **“Contemporary Issues in Marketing Management in India”**

Respected Prof. Atul Pandey Sir has started a talk with the words ‘Marketing begins with the product, idea and ends with consumer satisfaction’. He defines marketing and marketing systems. Respected Sir has focused on the **20 Contemporary Issues in Marketing Management in India i.e.** Value Addition, Competition, Small is Big, Promotional Tools, Global Markets & Local Marketing, Impulse Buying & Window Shopping, Obedient Parents, Convenience & Consciousness, Mall Culture & Organised Retail, EMI/Credit, Go Rural, Go Green, Service Marketing Boom, Market Aggregators (D2C), Technological Hype, MLM (Multi Level Marketing), Relationship Marketing (CRM), Online/ Digital Marketing & Buying, Social Media Marketing and Sustainable Marketing.

Respected Sir has explained all the 20 Contemporary Issues in Marketing Management in India with various related examples. At the end of the session Mr. Dilip Mukunda Nandeshwar, reporter of the session proposed vote of thanks to Prof. Atul Pandey Sir for his excellent talk and Presentation.

Session III (14.15-15.45)

25. Dr .Pushkar Nath, Today, Day 7th of the online Refresher course in Commerce and Management organised by the HRDC, PRSU conducted the seminar presentation of the participants in this course from 2.15pm to 3.45pm. The session became an interactive and informative session because of the inquisitive nature of the resource person Dr .Pushkar Nath. The participants actively responded to the queries put by the resource person. On the whole session became a success

The following is the list of participants and their topic of seminar presented

Sl.NO	Name of the participant	Topic for seminar presentation
07	Shivramsinghshyam	Goods and Services Tax
19	Dr Mukeshkumar	Process costing
21	Mr. PareshShantaramKhetal	Electronic payment
22	Dr. E. Karthika	Banker and customer RELATIONS
23	Mrs. A. Bhuvaneshwari	Formation of a company
24	Dr. C. Madhesh	E banking
25	Dr.Balaji S. Mudholkar	Nudge Theory
26	Dr. S. Deepa	Questionnaire method of Data collection
27	Dr.Vennila Gopal	Women empowerment-Bridging the divide
28	Dr. B. Thulasipriya	Not presented
29	Dr.Hotam Singh	Not presented
30	Dr.Dewasish Mukherjee	Role of Artificial Intelligence in todays education

Session IV (16:00 to 17:30)



26. Dr. S.K. Srivastava, Today, Day 7th of the online Refresher course in Commerce and Management organised by the HRDC, PRSU conducted the seminar presentation of the participants in this course from 4.00pm to 5.30pm. with his calm and keen observance the resource person Dr. S.K. Srivastava motivated the participants to present their paper without any inhibitions. It was an

informative session. The participants actively responded to the queries put by the resource person. On the whole session became a success

The following is the list of participants and their topic of seminar presented

SI.NO	Name of the participant	Topic for seminar presentation
31	Ms. NidhiGoenka	Cyber security
32	Dr. Shweta Mahakalka	Not presented
33	Dr. Gaurav Sharma	Secretarial Audit under companies act 2013
34	Mrs. Pinky Garg	Linear programming
35	Ms. Soma Goswami	Para language
36	Ms. PriyaDurgadasGedam	Role of entrepreneurship in Self-reliant India mission
37	Dr Udaymarutilokhande	Life skill for success : self awareness
38	Dr Rajesh Kumar Paramandchetiwal	National and International factors affecting Stock prices
39	Dr Asha Ramteke	Returns are more profitable than risk coverage in PLI sector
40	Dr Ekta Mishra	Inflation and its effect onEconomy

Day 8

Session I (10.30-12.00)



27. Prof. R. P. Das, The first session of 8th Day was commenced by welcoming the resource person Prof. R. P. Das, Pro. V. C. IGNOU, New Delhi by the chairperson session of Ms. Nidhi Goenka. The resource person delivered a talk on “**Method of Teaching in Commerce & Management**”

Prof. R. P. Das Sir has explained deliver concept of Teaching Method, Method of Teaching in Commerce & Management, pedagogy of commerce, methods of teaching commerce effectively, Problems, Approaches, Ideas, Interest, attitudes, and weakness of lecture method, Case method of teaching-

Process, Feedback, to develop of personality, Communication skill, decision making, role of participant, teacher responsibility. Sir has explained the overall topic. At the end of the session many participants actively participated in the discussion with the resource person and Prof. R. P. Das Sir for his excellent talk.

Session II (12.15-13.45)



28. Dr. H. M. Jha, The second session of 8th Day was commenced by welcoming the resource person Dr. H. M. Jha, Dept. Of Business Administration & Research Shri Sant Gajanan Maharaj College of Engineering Segaon, SGB University Segaon (Mrs). by session chairperson Ms. Nidhi Goenka. The resource person delivered a talk on **“CONFLICT MANAGEMENT”**

Dr. H. M. Jha Sir has explained all concept in details like Conflict Meaning- Types of Conflict, Process, Persons/Groups/Organization, Purposed Efforts, Directed to Offset, Through Some from of Blockink, Insition in Conflict Thought- Traditional School, Human Relations School, Interationists School, Causes of Conflicts, Parent- Super Ego, Parent, Adult- Ego, Adult- Physical, Verbal, Child- ID, Child- Physical, Verbal, Direct Transaction, Complementary Transaction, Cross Transaction, Cross Transaction yield bitter relationship or no relationship. Sir has focused on the overall topic.

Session III (14.15-15.45)



29. Dr. Robhita Sukhbaim, In second session of dated 22.11.2021 in first half Dr. Robhita Sukhbaim has delivered lecture as resource person on topic of woman empowerment to participants of Refresher course of commerce and management. she delivered lecture on specified area of woman entrepreneurship across county.

Session IV(16.00-17.30)



30. Dr. Deepak Mishra In second half of session Dr. Deepak Mishra has delivered lecture on rural empowerment as resource person to participants of refresher course. In both the session participants are enjoyed lecture on both topic and increased area of learning specially on entrepreneurship. Session is chaired by miss. Asha Ramtake Assistant professor govt. college

Birgaon Raipur.

Day 9

Session I (10.30-12.00)



31. Prof. Maheshwar Sahu, 1st Session is conducted on topic “Contemporary Issues in Marketing: Theory & Practitioners Perspectives” by Resource Person Prof. Maheshwar Sahu, respected and honorable Professor, P. G. Department of Commerce, Utkal University, Bhubneshwar, Odisha.

Respected Prof. Maheshwar Sahu has initially focused as well as discussed on 'India's Future or Prosperity of will spread in India but Happiness will not, until we fix governance. Later on respected sir has explained with the help of tables & charts various important Statistical Data on Population Growth, Sectoral Composition of GDP, Literacy Rate, Poverty Situation, Per Capita Income Gains, Drivers of Growth, Implication of India Model – Consumption led, Rise of Globally Competitive Indian companies, Vibrant Private Space of India, Public Space Problem of India, Failures of Governance, India's Economic Success, the Wise Elephant Concept etc.

After above discussion, respected sir has touched the contemporary issues in Marketing. In this first of all, concept of Economy, Economic Activities & Resources is explained. Thereafter, respected sir covered detailed discussion on various Contemporary Marketing issues as regards Services Marketing, Digital Marketing, Rural Marketing, Organized Retailing, Neuro Marketing, Societal Marketing, Integrated Marketing Communication, Sports Marketing, Content Marketing, Green Marketing, Agricultural Marketing, E-commerce, Experiential Marketing & Guerilla Marketing. This Technical Session has really remained most informative, interactive & fruitful as well as in depth.

Session II (12.15-13.45)



32. Dr. Sitikantha Mishra, 2st Session is conducted on topic "Sustainable Planning & Management with Special reference to Tourism & Travel Industry of India" by Resource Person Prof. Dr. Sitikantha Mishra, respected an Alumnus of IIM, Ahmedabad.

Respected sir has well defined as well as explained that the aim of sustainable tourism is to increase the benefits and to reduce the

negative impacts caused by tourism for destinations. This can be achieved by: Protecting natural environments, wildlife and natural resources when developing and managing tourism activities.

Respected sir has made detailed discussion on principles of sustainable tourism. The mainly three things sustainable tourism can be responsible are: benefits the environment, help local communities and can have economic advantages. If people do not travel, there is no tourism. So, sustainable tourism is also linked to a concept of sustainable mobility. In order to successfully embody ecotourism, businesses need to consider the following three measures: Sustainable Business Practices, Community Development, and Environmental Stewardship.

Session III (14.15-15.45)



33. Dr. Pushendra Bahadur Singh, Today's ninth days of our Refresher course. I am a reporter of post lunch session that was project presentation Session . This session our resource person was Dr. Pushendra Bahadur Singh, which belong to MJPRU ,Bareilly (UP).

First presentation was group no. 02 Dr. Kirti Shrivastava, Prof. Ekta Rani Makkad and Prof. Neelam Gupta ,topic of presentation – Digital Marketing and Covid Pandemic

Second presentation was group no. 03 Dr. S. Deepa, Dr. C. Madhesh and Prof. Mrs. Bhuvaneshwari , topic of presentation – A Study on Risk and Return Analysis of Different Sectors in Equity Market.

Third presentation was group no. 04 Dr. Mukesh Kumar ,Prof. S.S. Paikra , Prof. RiteshNag,and Prof. K.K. Pradhan ,topic of presentation "छत्तीसगढ़ के छात्रों में वाणिज्य शिक्षा एवं कैरियर के प्रतिजागरूकता का अध्ययन" (बस्तर संभाग के विशेष संदर्भ में)

(A study of Commerce education and awareness of Career among Students of Chhattisgarh) . Spl. Ref. on Bastar Region of Chhattisgarh.

Fourth presentation was group no. 05 Ref. Manoj Sharma, Prof. Asha Ramteke and Prof. Rohan Agrawal, topic of presentation बाह्य खाद्य पदार्थों के सुरक्षा की और उपभोक्ताव्यवहार का अध्ययन ('A Study of Consumer Behavior on Out side Food Safety on RC Participant of HRDC Raipur.')

Session IV(16.00-17.30)



34. Dr. Pooran Kavidyal, This session resource person was Dr. Pooran Kavidyal from Kumayon University Bhimtal , Uttarakhand.

Fifth Presentation of the day by Group no. 06 Prof. Vijesh Venugopal and Prof. Jyoti Laxmi title of the project – Awareness and Usage of Mobile Banking Among College Teacher special ref .to Palakkad District. Kerla.

Six Presentation of the day was by Group no. 07 Prof. Satish Borkar and team title of the project – SWOT Analysis of Solar Water Energy.

This is the Seventh and last presentation was the day by Group no. 12 Dr. Gaurav Sharma and team. topic was Presentation of case study of Merger of Bank of Baroda, Vijaya Bank and Dena Bank. All was very wonderful presentation. it was very meaningful and interesting. Our Resource person also gave tips as per requirement. All Over session was Awesome.

Day 10

Session I (10.30-12.00)



35. Dr. Manjit Singh, Our first guest lecture for the 10th day program was delivered by Dr. Manjit Singh, who has over 26 years of teaching experience. Sir delivered lecture on "Participant Centered Learning Process". This PCL method is usually designed for students to be actively involved in process of learning.

It is about communication skill, leadership & teamwork. To understand this concept, Sir made us understand the topic by sharing his experiences and how he applied this PCL concept in his teaching profession so as to make students aware of real-life problems and intense pressure.

Session II (12.15-13.45)



36. Dr. Vijay Kumar Shrotriya, We were then delighted to have another prominent Guest lecturer Dr. Vijay Kumar Shrotriya, who delivered a lecture on the topic "Business Market & Sustainable." He easily took us throughout the topic by mentioning the key, tools & concept of business markets & sustaining the same. He

also mentioned about the management and coordination of environmental, social and financial demands and concerns to ensure responsible ethical and on-going success. Many real-life experiences were also provided by Dr. Vijaykumar Sir which kept our attention intact.

Session III (14.15-15.45)



37. Prof. Amrendra Pratap Singh, 3rd Session is conducted for “Project Work Presentation by Participants”. The Resource Person Prof. Amrendra Pratap Singh, respected and honorable Professor & Ex-Head, Department of Business Management, Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh has made evaluation of various Projects presented with the help of

ICT Tool Power-point by different 5 Groups of Participants. The details of these 5 Groups of Participants who have presented various Projects was as follow:

Group No.	Name of Participant	Roll No.	Title of Project
01.	Dr. Dewashish Mukherjee	30	“Retail Sector: Impact of Covid-19 on Retail Sector of India”
	Soma Goswami	35	
	Nidhi Goenka	31	
08.	Dr. Balaji S. Mudholkar	25	“Impact of Modern Agriculture Aids on Socio-Economic Development of Farmers of Selected Talukas in Nanded District”
	Mr. Dilip Mukunda Nandeshwar	02	
	Shivram Singh Shyam	07	
09.	Dr. E. Karthika	22	“Celebrity Influence with respect to Cosmetic Marketing”
	Dr. Vennila Gopal	27	
	Dr. Ekta Mishra	40	
10.	Dr. Usha Daigavane (Awachat)	06	“Outsourcing Business”
	Rakesh Minj	09	
	Dr. Pradip Manohar Joshi	18	
	Priya D. Gedam	36	
11.	Mr. Viralkumar Hirabhai Kedaria	15	“ An Analytical Study of Green Business Exercises in India with specific reference to Selected Reputed Companies”

After Presentation of Projects of above mentioned 5 Groups of Participants, Respected Prof. Prof. Amrendra Pratap Singh has given his valuable views in this regard. Thereafter, Respected Sir has enlightened us about essential guidelines as regards research. He has expressed that always weightage should be given to the Objectives of the Study, Hypothesis of the Study, Analysis & Interpretation of the data. This Technical Session has really remained most informative, interactive, eye-opener & precise.

Session IV (16.00-17.30) MCQ Test

in 4th Session Online **MCQ Test** of One Hour is conducted for the Participants of Refresher Course on Commerce & Management by UGC-HRDC of Pandit Ravishankar Shukla University, Raipur of Chhattisgarh under the guidance of Respected Course Coordinator Dr. Brijendra Pandey Sir & their entire Active Team of Technical & Administrative Staff Members of UGC-HRDC of Pandit Ravishankar Shukla University, Raipur of Chhattisgarh.

Day 11

Session I (10.30-12.00)



38. Prof. Pradeep Kumar Yadav, The first session of 11th Day was commenced by welcoming the resource person Prof. Pradeep Kumar Yadav, by the chairperson , Dr. Ritesh Kumar Nag. Prof. Pradeep Kumar Yadav Sir has enlightening on the research background which in mainly concerned with marketing. He also explain the whole concepts of

research in today's world and research design. He also gave some of the example to relate research in marketing. He has also delivered his lecture on laboratory v/s field experiment in research in marketing. He explained the challenges on these experiment faced by the researcher. He had covered overall topic which enhance the knowledge of the researcher. At the end of the session many participants actively participated in the discussion with the resource person and Dr. Priya D Gedam, reporter of the session proposed vote of thanks to Prof. Pradeep Kumar Yadav Sir for his excellent and motivational session.

Session II (12.15-13.45)



39. Dr. Sanjay Baijal, The second session of 11th Day was commenced by welcoming to resource person Dr. Sanjay Baijal, Professor, Department of Commerce, DDU Gorakhpur University, Gorakhpur, by chairperson , Dr. Ritesh Kumar Nag. Dr. Sanjay Baijal has delivered his lecture on ethical research in details. He also explained, how ethical research is essential in current scenario and ethical writing is important to enrich researcher knowledge while writing the research paper. He has also explained ethical research publication in research writing, author, reviewer and editor's are important in writing a paper and how research misconduct raised in research activities. Sir has gave the details knowledge on UGC guideline related to ethical research and plagiarism. At the end of the session, Dr. Priya D Gedam, reporter of the session proposed vote of thanks to Dr. Sanjay Baijal Sir for his interactive and motivational session and excellent Presentation.

Session III (14.15-15.45) & Session IV (16.00-17.30)



40. Dr. Guruchand Singh, Third and Fourth session of the day was commenced by Welcoming the Resource Person Dr. Guruchand Singh ,Professor in School of Management Studies, Punjabi University, Patiala, Punjab. He was welcomed by the Chairperson of the Session Priya D Gedam, Asst Prof., Dept of Commerce, Gondwana University Gadchiroli (M.H.).

The Resource Person enlightened both the sessions on the topic “Ways to Boost Student Engagement in Online/Virtual Classrooms”. He was an expertise in such a way that he engaged all participants to turn on their camera and kept them very active by asking questions and giving lot of activities. The session has greatly remained informative, Interactive, Fruitful and Precise and all the participants had enjoyed the happiest session and had a innovative and Indepth Learning on how to keep the students active and participative in classrooms. **The Resource Person has taught various Types of Techniques to be adapted by Teachers which will remain evergreen in their memories.**

Day 12

Session I (10.30-12.00)



41. Dr. Maheshwar Sahu, The first session of 12th Day was commenced by welcoming the resource person Dr. Maheshwar Sahu, Department of Commerce, Utkal University, Bhubaneswar, Udisa by session chairperson Prof. Kamal Kishor Pradhan, Assistant Professor, Govt. Maharshi Valmiki College, Bhanaupratappur, Dit.-Kanker, (CG) on the Topic “**Future**

India” Respected Dr. Maheshwar Sahu Sir has covered Concept of Future India and role of education sector. Indian economy is agriculture economy, thus need to develop the agro base business in India. This agro based business will develop from domestic to nationalized and then globalized. Respected Sir also discussed the nationalized policy of 1991 that is Liberalization, Privatization and Globalization. It will be introduced in education sector by way of expanding the commerce education, new education must be business oriented. Res. Sir explained the entire concept by giving the examples of various companies like Hero-Honda, Hyundai, Maruti Udyog, Soft drinks, etc.

Session II (12.15-13.45)



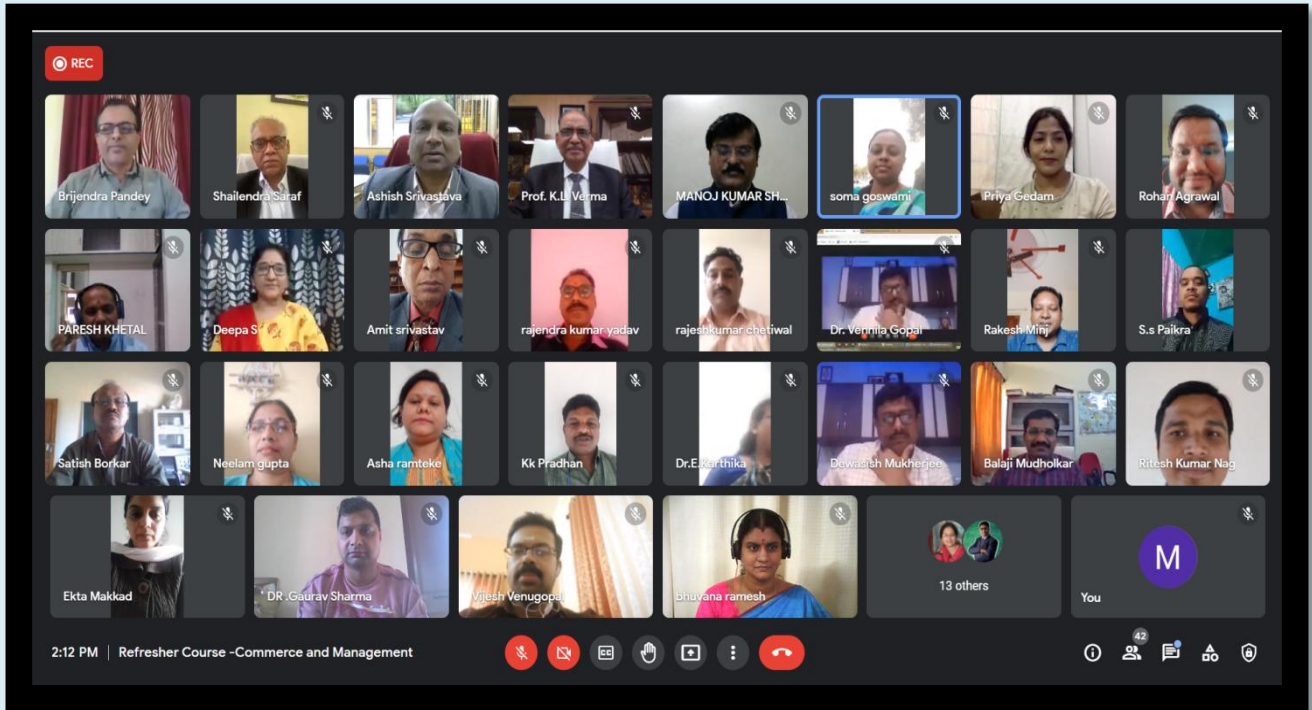
42. Prof. R. K. Shukla, The second session of 12th Day was commenced by welcoming the resource person Prof. R. K. Shukla, Department of Commerce DAVV, Indore (MP) by session chairperson Prof. Kamal Kishor Pradhan, Assistant Professor, Govt. Maharshi Valmiki College, Bhanupratappur, Dist.- Kanker, (CG) . The resource person delivered a talk on **“New Education Policy”**

Respected Prof. R.K. Shukla Sir has started a talk with the need of new education policy such as empowerment youth towards entrepreneurs and develop social and ethical conduct in business. Respected Sir has focused on the various reason of instruction of new policy like Lower rate of Human Development Index, Global Innovation Index. Social Progress Index, etc.

Respected Sir has explained the various aspects of New Education Policy such as Faculty Development, Higher Education Commission, Multi-disciplinary Education, Academic Bank Credit, Vocational to Main education, etc. At the end of the session Dr. Pradip Manohar Joshi, Jalgaon, reporter of the session proposed vote of thanks to Prof. R. K. Shukla Sir for his excellent talk and Presentation.

Session III (14.15-15.45) - Discussion and conclusion

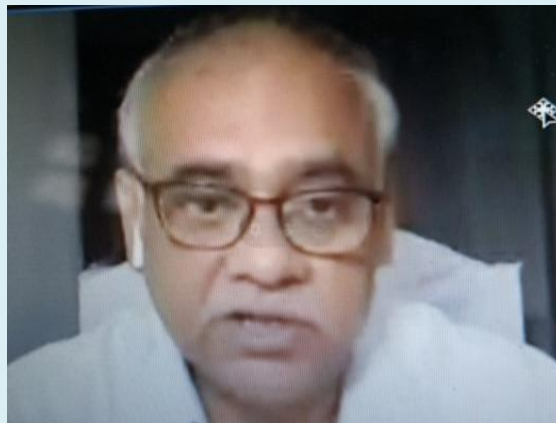
Session IV (16.00-17.30) - Valedictory



Organizing Team



Prof. K. L. Verma
Vice Chancellor
Pt. RSU, Raipur (C.G.),
India



Dr. Shailendra Saraf
Director
HRDC, Pt. RSU, Raipur
(C.G.), India



Prof. A.K. Shrivastava
Institute of Management,
Pt. Ravishankar Shukla
University, Raipur
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Dr. Brijendra Pandey
Assistant Professor
HRDC, Pt. RSU, Raipur (C.G.),
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UGC - HRDC, PRSU, Raipur

Time Table: Refresher Course on Commerce and Management

(11/11/2021 to 25/11/2021)

	Session -I (10:30 to 12:00)		Session -II (12:15 to 13:45)		Session -III (14:15 to 15:45)		Session -IV (16:00 to 17:30)
First Week							
Day 01 11/11/21	Registration, Inauguration & Induction	T E A B R E A K	Lecture 1 Prof. Kinnarry Thakkar Head, Dept. of Commerce, University of Mumbai (M.S.) M. No. – 9867602725 ; Email- maniramdekate@yahoo.co.in Topic: Advance Ruling in GST	L U N C H B R E A K	Lecture 2 Prof. Saurabh Head, Dept. of Commerce and Management Shri Mata VaishnoDevi University Katra, Jammu & Kashmir (UT) Mob:9419216302	T E A B R E A K	Lecture 3 Prof. H K Singh (Ex. VC) Faculty of Commerce Banaras Hindu University Varanasi Mob: 9415264509 Topic: Managerial Application of Marginal Costing in Present Scenario
Day 02 12/11/21	Lecture 4 Prof. Kalptaru Bandopadhyay Department of Commerce Vidyasagar University, Midnapur, (WB) Mob:9434665183 Topic: Strategies for Pandemic 2019-20 , Case of Real Estate Sector		Lecture 5 Dr. N.L. Sharma, Rtd. Professor, MJP Rohilkhand University, Bareilly (U.P.) M. No. – 9412287774		Lecture 6 Prof. Debabrata Mitra Department of Commerce University of North Bengal Silliguri (WB) Email; debabratamitrnanbu@gmail.com Mob: 94748777362		Lecture 7 Prof. Akhil Mishra Department of Commerce, BHU, Varanasi, U.P. Analysis and interpretation of quantitative data
Day 03 13/11/21	Lecture 8 Prof. Manas Panday Head & dean Dept. Of Commerce & Business VPS Purvanchal University Jaunpur (U.P.) 9415207029		Lecture 9 Prof. Kushendra Mishra Head & Dean School of Commerce & Management BB Ambedkar University Lucknow Mob: 7275707000 Analysis and interpretation of quantitative data		Lecture 10 Prof. Nilesh Barad CLBIBM (SB Phule Pune University) Nasik (MH) 7774055320		Lecture 11 Prof. H C Purohit Head & Dean Faculty of Commerce &Management Doon University Dehradun (UK) Mob:94 15207263
Day 04 15/11/21	Lecture 12 Prof. Yogesh Kumar Ex VC Dept. Of Commerce University of Rajasthan Jaipur 9414347157		Lecture 13 Prof. Badruddin Ahamed Faculty of Commerce &Management MANUU Hyderabad (Telangana) 9848423435		ICT/Micro teaching (Sr. no. 1-10) Prof. Sampada Swain Dept. Of Commerce Pondicherry University, Pondicherry		ICT/Micro teaching (Sr. no. 11-20) Prof. Nagendra Yadav, Lucknow University
Day 05 16/11/21	Lecture 16 Prof. (Dr.) Mohammed Abdul Azeem Head, Department of Management & Commerce and former Dean, at Maulana Azad National Urdu University (MANUU). Hyderabad		Lecture 17 Prof Ashok Mishra Head & dean Faculty of Commerce Guru Ghansidas University Bilaspur 9479243779		ICT/Micro teaching (Sr. no. 20-30) Prof. Navin Mathur Former-Vice Chancellor, Jagannath University, Jaipur,		ICT/Micro teaching (Sr. no. 30-40) Prof. S.K. Sinha Dean and Chairperson Department of Management, Faculty of Commerce and Management, Chaudhary Ranbir Singh University, Jind (Haryana)
Day 06 17/11/21	Lecture 18 Prof. Ravindra Vinayak Ex Secretary, Indian Commerce Association MD University Rohtak (Haryana) 8076101849		Lecture 19 Dr. Ran Singh Dhaliwal Head of the Department in Department of Tourism, Hospitality & Hotel Management , Punjabi University Patiala in Punjab.		Seminar (Sr. no. 1-10) Prof. H M Jha Dept. Of Management and Commerce, SSCET Shegoan, (Amravati University), Amravati 8830409655		Seminar (Sr. no. 11-20) Prof. H M Jha Dept. Of Management and Commerce, SSCET Shegoan, (Amravati University), Amravati 8830409655

	Session -I (10:30 to 12:00)		Session -II (12:15 to 13:45)		Session -III (14:15 to 15:45)		Session -IV (16:00 to 17:30)
Day 07 18/11/21	Lecture 20 Prof. Arun Kumar MONIRBA University Of Allahabad Allahabad 9415217841	T E A B R E A K	Lecture 21 Prof. Atul Pandey Head, Deptt of Business Administration APS Rewa University, Rewa(MP) 9425471030	L U N C H B R E A K	Seminar (Sr. no. 21-30) Prof. Pushkar Nath Head & Dean in Faculty of Commerce, Gossner College, Ranchi	T E A B R E A K	Seminar (Sr. no. 31-40) S.K. Shrivastava Dept. of Commerce, HNB Garhwal University, Uttarakhand
Day 08 20/11/21	Lecture 22 Prof R P Das Pro. VC IGNOU New Delhi 9425214226		Lecture 23 Prof. H M Jha Deptt Of Management and Commerce, SSCET Shegoan, (Amravati University), Amravati 8830409655		Lecture 24 Prof. Robita Sorokhaibam Department of Commerce Manipur University Manipur 7005673457 Email: robita9@gmail.com		Lecture 25 Prof Deepak Mishra Head & Dean Faculty of Commerce &Management, Siddrth University, SiddathNagar 9415572627
Day 09 22/11/21	Lecture 26 Prof. Maheshwar Sahu Deptt of Commerce Utkal University Bhubneswar 8328994313		Lecture 27 Prof. Dr. Sitikantha Mishra, Alumnus of IIM, Ahmedabad		Project Presentation/ Panel Discussion (Sr. no. 1-10) Dr. Pushpendra Bahadur Singh, MJPRU ,Bareli (UP).		Project Presentation/ Panel Discussion (Sr .no. 1-10) Dr. Pooran Kavidyal, Kumayon University Bhimtal , Uttarakhand.
Day 10 23/11/21	Lecture 28 Prof. Manjeet Singh School Of Commerce Punjabi University Patiyala(Punjab) 9417148582		Lecture 29 Prof V.K. Shrotiya School of Commerce Delhi University Delhi (9436335581		Project Presentation/ Panel Discussion (Sr. no. 21-30) Prof. Amrendra Pratap Singh, Head, Department of Business Management, Indira Gandhi National Tribal University, Amarkantak,		MCQ-Test
Day 11 24/11/21	Lecture 30 Prof. Pradeep Kumar Yadav, Dean of school of Engg, M.D.university ,Rohtak		Lecture 31 Dr. Sanjay Baijal, Professor, Department of Commerce, DDU Gorakhpur University, Gorakhpur		Lecture 32 Dr. Guruchand Singh ,Professor in School of ManagementStudies, Punjabi University, Patiala, Punjab.		Lecture 33 Dr. Guruchand Singh ,Professor in School of ManagementStudies, Punjabi University, Patiala, Punjab.
Day 12 25/11/21	Lecture 34 Prof. Maheshwar Sahu Deptt of Commerce Utkal University Bhubneswar 8328994313		Lecture 35 Prof. R.K. Shukla Department of Commerce DAVV, Indore (MP)		Valedictory & Concluding Session		

Refresher Course – Commerce and Management

(11.11.2021 to 25.11.2021)

Participants List

Course Coordinator - Prof. A.K. Shrivastav

Sr. No.	Name of Participant	email	Mobil No.	Designation	College	Name of the affiliating University
01.	Manoj Kumar Sharma	 sharmanagri@gmail.com	09826555026	Assistant Professor	Govt. Sukhram Nage College, Nagri, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
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29.	Nidhi Goenka		nidhigoyanka89@gmail.com	6261733887	Assistant Professor	Mahant Laxminarayan Das College, Raipur, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)

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37.	Dr. Ekta Mishra		ektaapoorwa@gmail.com	8602674033	Assistant Professor	Shri Shankaracharya Institute of Professional Studies, Sejbahar, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)

Refresher Course – Commerce and Management

(11.11.2021 to 25.11.2021)

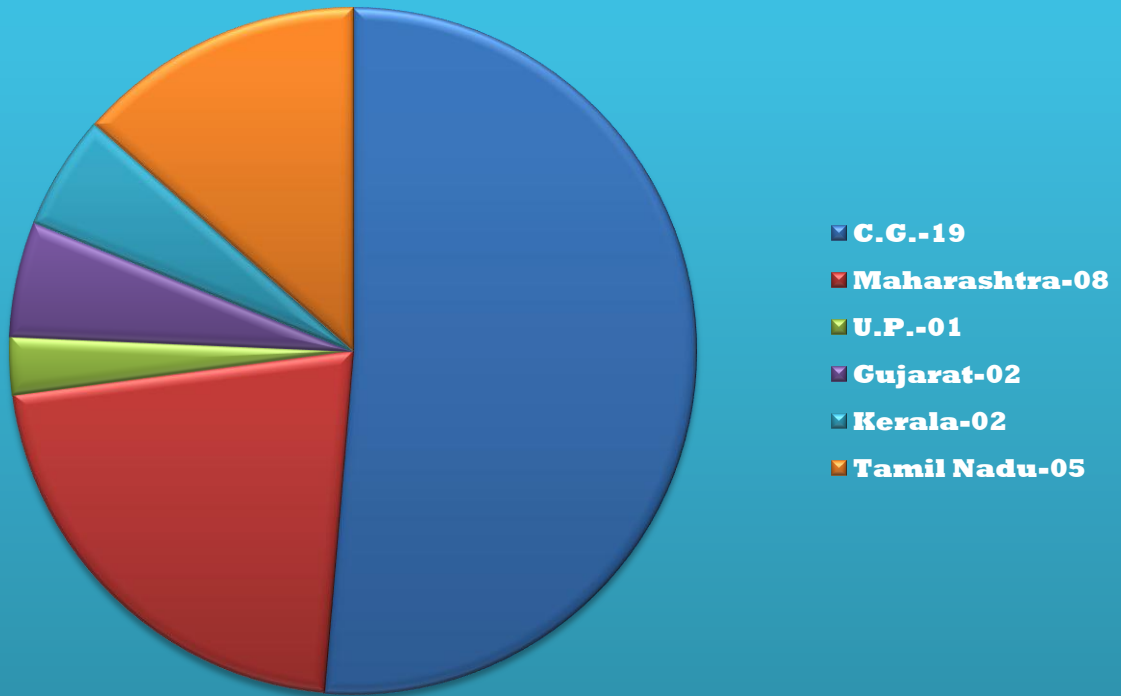
Participants List

Course Coordinator - Prof. A.K. Shrivastav

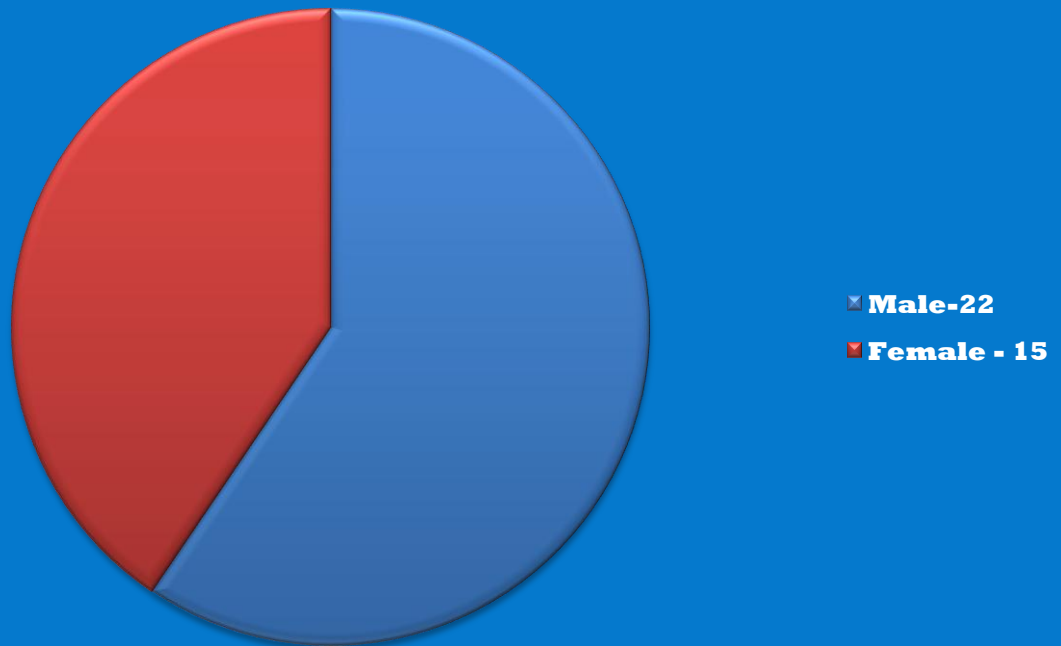
Chairperson and Reporter List

Date	Chairperson	Reporter	Chairperson	Reporter
	1st Half		2nd Half	
11.11.2021	Manoj Kumar Sharma	Dr. S. Deepa	Dr. Neelam Gupta	Paresh Shantaram Khetal
12.11.2021	Shivram Singh Shyam	Dr. Vennila Gopal	Suryabhan Singh Paikra	Dr. E. Karthika
13.11.2021	Ms. Ekta Rani Makkad	Dr. B. Thulasipriya	Dr. Mukesh Kumar	Mrs. A. Bhuvaneshwari
14.11.2021	Sunday			
15.11.2021	Rakesh Minj	Dr. Hotam Singh	Rohan Agrawal	Dr. C. Madhesh
16.11.2021	Dr. Kirti Shrivastav	Mr. Viralkumar Hirabhai Kedaria	Dr. Gaurav Sharma	Dr. Uday Maruti Lokhande
17.11.2021	Mrs. Pinky Garg	Vijesh Venugopal	Soma Goswami	Dr. Rajeshkumar Parmanand Chetiwal
18.11.2021	Dr. Dewasish Mukherjee	Mr. Dilip Mukunda Nandeshwar	Dr. Balaji S. Mudholkar	Jothilakshmi E
19.11.2021	Holiday			
20.11.2021	Nidhi Goenka	Dr. Satish Bhaurao Borkar	Dr. Asha Ramteke	Dr. Gaurav Sharma
21.11.2021	Sunday			
22.11.2021	Dr. Hotam Singh	Dr. Amit K Srivastav	Rohan Agrawal	Dr. Mukesh Kumar
23.11.2021	Rajendra Kumar Yadav	Dr. Usha Daigavane (Awachat)	Paresh Shantaram Khetal	Dr. Kirti Shrivastav
24.11.2021	Ritesh Kumar Nag	Priya D Gedam	Dr. E. Karthika	Ms. Ekta Rani Makkad
25.11.2021	Kamal Kishor Pradhan	Dr. Pradip Manohar Joshi	Mrs. A. Bhuvaneshwari	Dr. Ekta Mishra

States



Gender



Assessment Criterion and Marking:

Multiple-choice objective tests:	30
Seminars / participant presentation:	15
Project / survey / others:	20
Micro-teaching / participation:	10
Holistic response:	25
Total:	100

Grading pattern (based on Marks)

A+ : 85 percent and above
A : 70 percent to less than or equal to 84 percent
B : 60 percent to less than or equal to 69 percent
C : 50 percent to less than or equal to 59 percent
F : Below 49 percent

Those teacher participants who score F grade are required to repeat the program after a gap of one year without financial commitment to UGC-HRDC.

Online Delivery Platform: GOOGLE MEET



UGC - Human Resource Development Centre
Pt. Ravishankar Shukla University, Raipur



Organized

Online Refresher Course in Pharmacy

December – 6 to 20, 2021

Report

Name of Course/Program:	Online Refresher Course in Pharmacy
Name of Contact person from HRDC:	Dr. Arvind Agrawal
Date of Course/Program:	06.12.2021 to 20.12.2021
Name of Course Coordinator:	Prof. Preeti K Suresh, Professor University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur
Theme of Course/Program:	
Number of Participants:	35
State wise number of participants:	
Gender wise number of participants:	
Number of Resource Persons	
Name and Signature of Course Coordinator	
Prof. Preeti K Suresh University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur (C.G.)	Dr. Arvind Agrawal Assistant Professor HRDC, Pt. RSU, Raipur (C.G.)

Refresher Course in Pharmacy

(06.12.2021 - 20.12.2021)

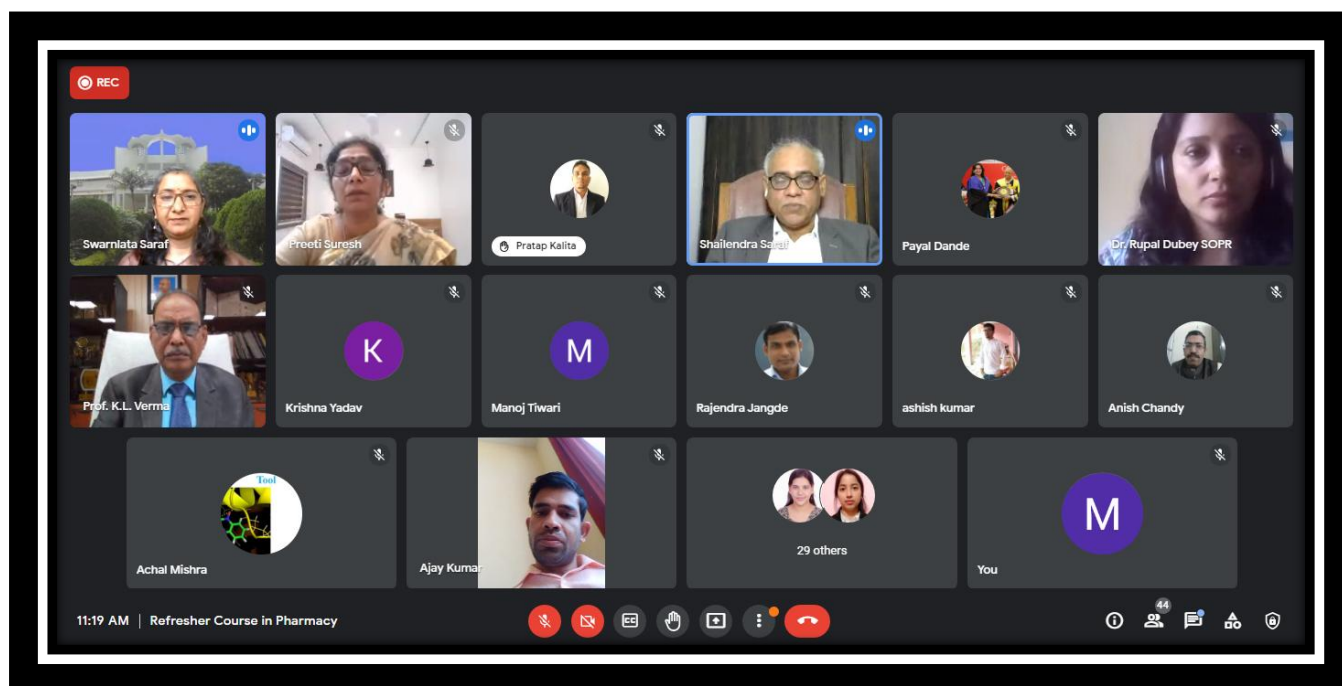
A Refresher Course on “Pharmacy” was organized by Human Resource Development Centre, Pt. Ravishankar Shukla University Raipur, in collaboration with School of Studies in Pharmacy, Pt. Ravishankar Shukla University, Raipur from 06th -20th , December 2021. The course was attended by thirty Five registered participants from across the country. 32 outstation and 05 local participants attended the same. 40 resource persons delivered lectures.

DAY 1

Session I (10.30-12.00) Inaugural Function

The Programme commenced with the Inaugural Function at 10.00 a.m. with **Chief guest as Hon’ble Vice Chancellor Prof. Keshari Lal Verma, Pt Ravishankar Shukla University, Raipur.** With Director sir and Course Co-Ordinators, the Programme commenced by welcoming them ,which was followed by Introduction of the Participants, Introduction about the course by Course Co-Ordinator and Address by the Director HRDC- Pt RSU.

Inaugural Address was given by Hon’ble Vice Chancellor who focused on the developments in Pharmacy and how updated the Professors must be by using such useful courses. Finally Vote of Thanks was given by Course Co-Ordinator.



Session II (12:15 to 13:45)



1. Prof. Mala D. Menon, is conducted on topic entitled 'Tools in Development of Drug Delivery Systems' by Resource Person **Prof. Mala D. Menon** respected and honorable Professor Bombay College of Pharmacy Kalina, Santacruz (E), Mumbai

The lecture given very key points in which it is very useful for natural products like on E-Nose & E-Tongue Tools a new concept to work on bitter phytoconstituents. The session very informative and dealt the importance of research collaboration between Academic and Pharmaceutical Industry.

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)



2. Dr. Om Silakari, is conducted on topic entitled 'Pharmacophore Mapping ' and ' Pharmacophore Mapping - Applications' by Resource Person **Dr. Om Silakari**, Molecular Modeling Lab, Department of Pharmaceutical Sciences & Drug Research, Punjabi University, Patiala, Punjab.

The lecture given on the following key points which is understandable:

- Cartesian co-ordinates to determine 3D structure of components.
- Molecular mechanics to calculate to assess potential.
- Molecular recognition in Drug Quantum mechanics.
- Molecular docking analysed by molecular dynamics.
- Conformational analysis and preparation of molecule.

The lecture given on the following key points which is understandable:

- Applicability of 3D structure of components in herbals.
- Molecular docking applications
- Conformational analysis and preparation of molecule from phytoconstituents

DAY 2

Session I (10.30-12.00)



3. Dr. Ajay J. Khopade, is conducted on topic entitled 'Reformulation Strategies addressing unmet needs for product life cycle' by Resource Person **Dr. Ajay J. Khopade**, respected and honorable Vice President F R&D at Sun Pharmaceutical Industries Limited, Vadodara, Gujarat

The lecture given on the following key points which is understandable:

- Emulsion conversion into micelles and parameters to consider in conversion.
- Mixed micelles containing all types of cationic/anionic/non-ionic surfactants.
- Clinical trial outcome about SDN-037 in treatment of inflammation and pain associated with ocular surgery with resulted in superior results in US.
- Nanomicelles –mixture of 2 non-ionic surfactants on concept of like dissolves like.
- Patient compliance Timelet OD.

Session II (12.15-13.45)



4. **Dr. Shubhini A. Saraf**, is conducted on topic entitled 'Pharmaceutical Technology: Bioelectronics and beyond' by Resource Person **Dr. Shubhini A. Saraf**, School of Biomedical & Pharmaceutical Sciences, Babasaheb Bhimrao Ambedkar University, Luknow.

Presentation is very informative and most relevant to pandemic and post pandemic world. And give new idea about various fields related to Pharmacy education & training, transferable skills for pharma professionals, complex drug release profiles, 3-D printing in medicines, Fish-shaped micro -robots to deliver chemotherapeutic drugs, Corona-phase micro- recognition, Wearable antibacterial device, Hydro gel wound treatment for antibacterial activity, Body sensors printed directly on skin, diagnostic tools for infectious diseases etc, and brain- computer interface translate imaged writing, drug-development pipelines, Cupid System Training, Advanced Medical Devices as per D&C Acts. Session based on latest information about pharmaceutical technology and Bioelectronics.

Session III (14:15 to 15:45)



5. **Prof. Kamla Pathak**, is conducted on topic entitled '3D Printing Methodologies and Their Pharmaceutical Applications' by Resource Person **Prof. Kamla Pathak**, respected and honorable Dean, Faculty of Pharmacy, University of Medical Sciences, Saifai, Etawah (UP)

Three-dimensional printing (3DP) technology allows the fabrication of 3D objects with various geometrics in a layer-by layer process. 3D printing confluence of chemistry, optics and robotics research. It gains popularity in the year 2015 after getting FDA approval of the 3D-printing drug product. In 3D printing, 3D designs are typically converted to the STL file format, which describes the external surface of a 3D model. 3D printing program “slice” these surfaces into district printable layers and transfers layer-by-layer instructions digitally to the printer. 3D printing may also create new manufacturing options for potent APIs. Printing of extremely low-dose products containing as little as 3ng of API with 10% RSD can also be achieved by 3D printing. Furthermore, fluid bed granulation can produce 1µg tablets with 5% RSD. 3D printings allow printing multi-drug polypills. The main benefits of 3D printing technology lie in the production of small batches of medicines, each with tailored dosages, shapes, sizes, and release characteristics. The current medical uses of 3D printing can be organized into several broad categories: tissue and organ fabrication; creating prosthetics, implants, and anatomical models; and pharmaceutical research concerning drug discovery, delivery, and dosage forms. 3D printing includes Printing based inkjet (IJ) system, Nozzle based deposition systems and Laser based writing systems. Important benefit offered by 3D printing is the ability to produce items cheaply. The main drawback of 3D printing is that it takes only account the initial state of the printed structures and assumes it static and inanimate. The problems can be overcome by introducing 4D printing, which uses the ability of shape and functionality transformation over time when exposed to an intrinsic/external stimuli allowing a more accurate imitation of the dynamics of the native tissues.

Session IV (16:00 to 17:30)



6. Prof. B. Mishra, is conducted on topic entitled 'Pastillation Technology for Controlled and Pulsatile Drug Delivery' by Resource Person **Prof. B. Mishra**, Department of Pharmaceutical Engineering and Technology, Indian Institute of Technology (BHU), Varanasi

Pastillation is a robust technology in the chemical industry to convert hazardous chemical powders to solidified hemispherical pellets, called Pastilles using large equipment called “rotoformer”. In this process the dusty chemicals are heated to convert them into a melt and then this melt is dropped on a cold surface to solidify the melt into pastilles. Pastilles can be formed in a wide range of size with diameters ranging from 1 to 30mm. These are stable formulation with high uniformity. The said topic was covered by describing a research study entitled “Pastilles of Doxofylline for better Management of Asthma”. The objective of the research was to explore pastillation to design a platform technology for the development of novel and unique modified release drug delivery system. Varieties of formulations including immediate release, controlled release and pulsating release formulation of doxofylline were produced by pastillation technology. The pharmacokinetics and gamma scintigraphic imaging confirms the ability of the formulations to release the drug only after a desired period of time as specifically required for the treatment of asthma. The *in vitro* studies confirm the efficiency of the coating system of pastilles. The PEG based pastilles act as immediate release dosage forms. Furthermore, formed pastilles showed immediate release dosage form, pulsating release dosage form and sustained release dosage form. This was the first findings in pharmaceutical fields utilizing pastillation technology.

Day 3

Session I (10.30-12.00)



7. Dr. Subheet Kumar Jain, is conducted on topic entitled 'Importance of Translational Research in Pharmaceutical Field.' by Resource Person **Prof. Subheet Jain**, Dept. of Pharm. Sciences, Guru Nanak Dev University, Amritsar, Punjab

In his lecture, Dr. Subheet Kumar Jain explained how we can contribute by developing concept and product by translational research, which will fulfill the needs of society. He also explained about various aspects of translational research such as-

- How inter disciplinary/multidisciplinary approach is must for translational research.
- Journey of product from bench top to bedside to community (Translating knowledge gained from laboratory science into clinical practice to improve health by integration of activities).
- Selection of research problem – Need, 3P (Patient, Physician and Payer)
- Case study of development of Amphotericin-B.
- Development of carrier based dermaceuticals.
- Commercial viability of the product.
- Future scope in translational research.

Session II (12.15-13.45)



8. Dr. Sunil Kumar Dubey, is conducted on topic entitled 'PK/PD modeling simulation of Nano carrier system for better efficacy' by Resource Person **Dr. Sunil Kumar Dubey**, General Manager, Medical Research R&D Health care Division Emami Ltd, Kolkata (WB)

In his lecture, Dr. Sunil Kumar Dubey explained how we can design, synthesize and characterize the PK/PD modeling and its Simulation for better efficacy of drugs.

During his content delivery he explained about various aspects of PK/PD

- Design and evaluation of lipoprotein based Donepezil Nano carriers for enhanced brain uptake through oral delivery and details of different parameters used for pharmacokinetics studies and validation of HPLC method
- Bioanalytical methods/photodynamic therapy compartmental pharmacokinetics of HPPH
- Preclinical pharmacokinetics and pharmacokinetics modeling study of 4-hydroxyisoleucine LC-MS-MS
- Preclinical pharmacokinetics and pharmacokinetics modeling study of Trigonelline UPLC-MS-MS
- Comparative study of PK/PD of Trigonelline and 4-hydroxyisoleucine
- Future scope in PK/PD and its importance

Session III (14:15 to 15:45)



9. Dr. Sushil Kashaw, is conducted on topic entitled ' Drug Design and discovery through Structure based drug design approach.' by Resource Person **Dr. Sushil Kashaw**, Associate Professor, Dept. of Pharmaceutical Sciences, Dr. H.S. Gour Vishwavidyalaya, Sagar (MP)

Three stages of *in silico* drug discovery process that is 1) Therapeutic target identification, 2) Specificity by adding at binding site. 3) *in silico* ADMET profiling were explained. The drug discovery process was elaborated with direct and indirect design, including Ligand based drug design.

Protein Ligand Docking and Active site directed docking were discussed with examples of approved and in-use drugs. Process of drug discovery comprising of lead identification, optimization thereof and development process with respective timelines were elaborated. Role of computational chemistry, in Genomic. Proteomics and biopharmaceuticals was highlighted in genome-based drug discovery.

Session IV (16:00 to 17:30)



10. Prof. Vandana Patravale, is conducted on topic entitled 'Computational pharmaceuticals: opportunities and challenges' by Resource Person **Prof. Vandana Patravale**, Dept. of Pharm. Sciences & Technology, Institute of Chemical Technology, Mumbai, (M.H.)

The lecture given on the following key points which is understandable:

- Artificial intelligence in health care.
- Role of computation tools in pharma.
- Basic stems: Atomic MD simulations.
- Model membranes – Polymeric drug delievery
- Case studies on dendrimers.

Day 4

Session I (10.30-12.00)



11. Prof. O. P. Katare, is conducted on topic entitled 'Research A Mindset: How to develop a million dollar Q (sharing my UIPS JOURNEY chasing EXCELLENCE through liposome's)' by Resource Person **Prof. O. P. Katare**, University Institute of Pharmacy, Panjab University, Chandigarh

A liposome has an aqueous solution core surrounded by a hydrophobic membrane, in the form of a lipid bilayer; hydrophilic solutes dissolved in the core cannot readily pass through the bilayer. Hydrophobic chemicals associate with the bilayer. A liposome is basically loaded with hydrophobic and/or hydrophilic molecules. To deliver the molecules to a site of action, the lipid bilayer can fuse with other bilayers such as the cell membrane, thus delivering the liposome contents as a complex reaction. Liposomal drug delivery can be used as one of the novel approaches for targeted drug delivery that facilitates the reduction in doses and frequency of

dosing. The said topic emphasised on some patented nano liposomal products such as-

- ETOVA LP GEL a *NANO LIPOSOME TECHNOLOGY for the management of pain & inflammation by- IPQA LABS, MUMBAI.*
- *PSORISOME a Novel Liposomal Technology based product for psoriasis developed and transferred to M/s Lifecare Innovations Pv. Ltd Gurgaon.*
- *LIPOTAR a Novel Lipid based Topical Drug Delivery Product of Coal tar which is tested on human subjects at PGIMER, Chandigarh.*

Session II (12.15-13.45)



12. Prof. Ranjit Singh, is conducted on topic entitled ' Third decade of Twenty First Century- Challenges and Opportunities' by Resource Person **Prof. Ranjit Singh**, Vice-Chancellor Shobhit University, Gangoh, Saharanpur UP

The session was focused on Technology literacy which is the ability of an individual, working independently and with others, to responsibly, appropriately and effectively use technology tools to access, manage, integrate, evaluate, create and communicate information. Candidates who possess technology literacy are able to easily utilize a variety of digital devices and interfaces (e.g., e-mail, internet, social media, cloud computing) to communicate, troubleshoot and problem solve in both academic and non-academic surroundings. The session also emphasized on revolution of industrialisation that is Avatar 4.0. Automation technologies, through IIoT ('Industrial Internet of Things') connect, control and monitor networks of gadgets, devices, machines, robots and cloud information in real time (via 'Cloud Monitoring'). This way it allows them to learn, operate and function automatically, minimising human intervention and optimising production.

Today's world AI and Automation demands-

- Independent research. ...

- Familiarity with terms and common platforms. ...
- Collaboration. ...
- Adapting to new technology. ...
- Teaching or explaining technologies you use.

Session III (14:15 to 15:45) & Session IV (16:00 to 17:30)

Micro Teaching



13. Prof. Kanchan Kohli, The session of Micro-teaching started by the formal welcome of the evaluator of microteaching session **Prof. Kanchan Kohli**, Director (Research and Publications) Lloyds Institute of Pharmacy and Technology. The event was an online session on Microteaching. The basic motive behind the session was to

evaluate the teaching skills of participants within the given time limit of 5-6 minutes. In total 17 participants gave the presentation on different aspects of pharmaceutical sciences like Chromatography, different types of dosage forms, Isomerism, Evaluation of cosmetics, Gas chromatography, Absorption of drugs and factorial designs. All participants talked about the topics they had selected and shown their skills in the form of conversation.

Day 5

Session I (10.30-12.00)



14. Prof. Vimal Kumar, is conducted on topic entitled ' Supercritical Fluid Technology: Modern tool in herbal drug discovery and development ' by Resource Person **Prof. Vimal Kumar**, Dean, School of Pharmacy, ITM (SLS) Baroda University, Vadodara.

The eminent speaker spoke about role of herbal drugs in pharma sciences and natural products. He explained about drugs derived from plants such as aspirin, morphine, digitalin, quinine, artemisinin and reserpine, majorly focused on anticancer drugs derived from plants which are of clinical use like vincristine, vinblastine, etoposide, topotecan etc. Also explained about some immunomodulator herbs such as ashwagandha, haldi, tulsi, dalchini, ginger, guduchi and pippali. The session also included foods and herbs for good health, those foods are walnuts and their oil, flaxseed oil etc.

Later after giving the introduction to the herbal drugs, their discovery and development, the speaker focused on supercritical fluid (SCF) technology. He explained the principle of supercritical fluid and types of supercritical fluid techniques which included extraction and chromatography. The speaker explained about SPE coupling techniques i.e., offline SPE and online SPE, advantages of supercritical fluids, applications of SPE in various fields. The session also included SPE mechanism i.e. about fast depressurization, instrumentation and applications of SPE in extraction.

Session II (12.15-13.45)



15. Prof. Krishnapriya Mohanraj, is conducted on topic entitled 'Investigations on utility of LC-MS/MS and related techniques on impurity profiling' by Resource Person **Prof. Krishnapriya Mohanraj**, Head, Department of Pharm. Analysis, Bombay College of Pharmacy, Kalina, Santacruz (E), Mumbai.

The contents of the session included the fundamentals and case studies. The session started with the brief introduction about impurities, i.e., the definition of impurities, types of impurities and their sources. The speaker explained five types of impurities which included elements, organic compounds, polymorphs, residual solvents,

enantiomers and diastereomers, and how they are detected using hyphenated techniques. Then the speaker discussed about impurity profiling, the need for profiling, which included sources of impurities in API and goals of impurity investigations both process related and degradation related impurities.

Then the session focused on merger of techniques i.e., LC, MS, LC-MS and LC-MS/MS. Tandem mass spectrometry was explained by the speaker stating the introduction, advantages and limitations of mass spectrometry. Later the types of tandem mass analyzers were discussed individually, equipment and working of triple quadrupole mass analyzer and ion trap analyzer. The speaker explained by taking an example impurity profiling of nitrosamine, in which different nitrosamine impurities their names, structures and limits prescribed are mentioned. The chromatograms of the impurities and results were shown during the presentation.

Session III (14:15 to 15:45) & Session IV (16:00 to 17:30)

Micro Teaching



Dr. M.S. Sudheesh, The session of Micro-teaching started by the formal welcome of the evaluator of microteaching session **Dr. M.S. Sudheesh**, Amrita Health Science Campus, Amrita Vishwa Vidyapeetham, Ponekkara, Kochi. The event was an online session on Microteaching. The basic motive behind the session was to evaluate the teaching skills of participants within the given time limit of 5-6 minutes. In total 18 participants gave the presentation on different aspects of pharmaceutical sciences like Chromatography, different types of dosage forms, Isomerism, Evaluation of cosmetics, Gas chromatography, Absorption of drugs and factorial designs. All participants talked about the topics they had selected and shown their skills in the form of conversation. The Participants actively presented their PPT'S and it was very informative and interesting to share the knowledge among themselves .The

Resource person cum Evaluators gave their valuable feedback and suggestions to the participants which was very valuable to be treasured and implemented in their teaching.

Day 6

Session I (10.30-12.00)

Dr. Amit Alexander, is conducted on topic entitled 'Understanding the principles of Pharmacokinetic compartmental analysis' by Resource Person **Dr. Amit Alexander**, Associate Professor, National Institute of Pharmaceutical Education and Research, Guwahati.

The lecture given on the following key points:

- Two compartmental analysis
- Mathematical expression of 2-compartmental model.
- Distribution phase and elimination phase of compartment models
- Primary and Secondary Compartment equations.

Session II (12.15-13.45)

Dr. Jayant Karajgi, is conducted on topic entitled 'Pharmaceuticals Packaging' by Resource Person **Dr. Jayant Karajgi**, COO, Formulations Shilpa Medicare Ltd., Mumbai, Maharashtra.

The lecture given on the following key points:

- Regulatory aspects of packaging.
- Significance of syringe needles size of Vaccines.
- Development of packaging part in R&D.
- Prevention of Adulteration in packaging and commercial part
- Cautious note on while purchasing the formulation.

Session III (14:15 to 15:45)

21. Dr. Nitin Kumar Jain, is conducted on topic entitled ' Biosafety Regulation: Development of Biopharmaceuticals. ' by Resource Person **Prof. Nitin K. Jain**, Scientist, Department of Biotechnology, Ministry of Science and Technology, New Delhi.

He indicated in his talk about the clinical drugs. He narrated the basic requirements of clinical studies and the regulatory process requirements such as controlled data characterization, toxicity data and clinical trail phase. He told about the emerging new technologies which explain about specific modifications in genome or create organisms with new abilities which may turn them into highly pathogenic to plants. He also emphasized on development of measures to counter any accidental or deliberate misuse of biotechnology. He explained about recent reforms and updated guidelines for biosafety. He indicated that regulations and guidelines for recombinant DNA research and biocontainment are there which includes import and export, storage, disposal and emergency, contained use, facility certification, manufacturing etc.

Session IV (16:00 to 17:30)



22. Prof. B. Mishra, is conducted on topic entitled ' Risk Management of Effective Medication ' by Resource Person **Prof. B. Mishra**, Departmental of Pharmaceutical Engineering and Technology, Indian Institute of Technology (BHU), Varanasi.

Prof. Mishra started his talk by first explaining certain environmental factors such as heat,moisture, light and microbial contamination which affects the efficacy of the medicines. These factors cause instability in the medicine such as colour change, unwanted chemical reactions etc. Prof. Mishra also narrated about environmental factors inside the body such as meals with which the medicines are given, drug food interactions, drug-drug interactions and drug disease interactions. Prof. Mishra also explained about the importance and meaning of instructions mentioned on labels of medicines. He talked

about the actual meaning of expiry/ expiry date/ best before end/ best before/ shelf life etc. At the end he presented some Realtime examples on instability factors of medicines. He thanked all the participants for their patient listening and put the session open for question and answers. The session was then open for the question and answers. Participants asked their doubts about the medicine instability to Prof. Mishra and he answered them all the queries very well.

Day 7

Session I (10.30-12.00) & Session II (12.15-13.45)



Dr. Neeraj Upmanyu, is conducted on topic entitled 'Seminar Evaluator' by Resource Person **Dr. Neeraj Upmanyu**, Registrar, National Institute of Pharmaceutical Education and Research, Hajipur. The event was an online session on Seminar Presentation. The basic motive behind the session was to evaluate the Seminar Presentation of participants within the given time limit of 5-6 minutes. In total 19 participants gave the presentation on different aspects of pharmaceutical sciences. All participants talked about the topics they had selected and shown their skills in the form of conversation. The Participants actively presented their PPT'S and it was very informative and interesting to share the knowledge among themselves. The Resource person cum Evaluators gave their valuable feedback and suggestions to the participants which was very valuable to be treasured and implemented in their Seminar Presentation.

Session III (14.15-15.45)



25. Prof. Meenakshi Bajpai, is conducted on topic entitled 'FDA approved medical devices(2021)' by Resource Person **Prof. Meenakshi Bajpai**, Head, Institute of Pharmaceutical Research GLA University, Mathura, (U.P.)

She gave her presentation on FDA approved medical devices in a very simple way she explain about WHO laboratory system, Gele implant, defibrillator component, heart volve ,cathetor system and many more.I am sure that this knolegde will be beneficial for all of us.

Session IV (16:00 to 17:30)



26. Dr. Shubhini A. Saraf, is conducted on topic entitled 'Molecular Pharmaceutics and Dynamic of nanoformulation' by Resource Person **Dr. Shubhini A. Saraf**, School of Biomedical & Pharmaceutical Sciences, Babasaheb Bhimrao Ambedkar University, Luknow.

we had a golden appportunity to interact with Prof. Shubhini A saraf ma'am as a key note speaker in the program she delivered here lecture on Molecular Pharmaceutics and Dynamic of nanoformulation in very simple way she explain nanoformulation and diffrent transport of nanoformulation ,action of Binory weapons in inhansing gencitabine, systemic circulation of nanoparticles, various bariours of nanoformulation and valume available in nanoformulation. Thats all are very valuable information.

Day 8

Session I (10.30-12.00)



27. Prof. Padma Devarajan, is conducted on topic entitled 'Designer Nanoparticles for Splenotropic Delivery – A Serendipity ' by Resource Person **Prof. Padma Devarajan**, Professor in Pharmacy, Department of Pharmaceutical Sciences and Technology, Indian Institute of Chemical Technology Mumbai

She delivered her lecture on designer nanoparticles for splenotropic drug delivery. She elaborated about basics of Splenotropy, splenic infection, drug targeting to the hepatic cells and formulation of DH-lipomar nanoparticle and evaluation of its bio distribution across spleen. She exclusively focused on the formulation part, discussed the effects of different types of solvent and its concentration on morphology of the nano-formulation. She also discussed the application of live cell imaging while preparing the nanoparticle. The lecture was followed by an open session where the participants raised questions and professor Devrajan replied every question in a very commendable way. The first session was brought to an end by vote of thanks from chairperson of this session

Session II (12.15-13.45)



28. Dr. N.P. Yadav, is conducted on topic entitled 'Skin Analyzer as a Tool for the Assessment of Severity of Psoriasis Skin' by Resource Person **Dr. N.P. Yadav**, Principal Scientist CSIR-Central Institute of Medical and Aromatic Plants, Lucknow, (U.P.)

He discussed about the application of skin analyzer tool for the calculation of PASI scoring, development of imiquimod induced Psoriasis model and application of Lavender oil for psoriasis treatment. He also discussed about level of up regulatory cytokines in normal as well as psoriatic skin that

differentiate between normal and diseased skin. He elaborated about the role of different herbal oils, and its application to cure psoriasis. The lecture was followed by an open session where the participants raised questions and the resource person replied every question in a very creditable way. The second session was brought to an end by vote of thanks from chairperson of this session

Session III (14.15-15.45) & Session IV(16.00-17.30)

29. Prof. Zulfikar Ali Bhat, is conducted on topic entitled 'Seminar Evaluator' by Resource Person **Prof. Zulfikar Ali Bhat**, Professor, Department of Pharmaceutical sciences, University of Kashmir.

Sr. No.	NAME	TITLE OF THE PRESENTATION
20.	Dr. Junaid Khan	Drugs: How they do act?
23.	Dr. Raveesha Periga	Assessment of pharmacognostical finding of <i>Myxopyrum smilacifolium</i> blume
25.	Dr. Sweeta Mishra	Molecular modelling study, synthesis and pharmacological evaluation of benzimidazole
26.	Dr Vikash Budhwar	Plasma drug concentration
27.	Dr. Rajendra Sahu	Pharmacognostic characteristics and in vitro evaluation of antioxidant potential of <i>Elacoceapus ganitus</i>
28.	Dr. Ashwanee Kumar Sahu	Evaluation of phytochemistry, antioxidant, antimicrobial and pharmacological activity of corn silk
29.	Dr. Yugal Kishore Rajput	Synthesis, characterization and antimicrobial activity of pyrazole containing sulphonamide compounds.
30.	Dr. Madhulika Pradhan	Omicron-A new episode in the COVID-19 pandemic.
31.	Ms. Ratnali Bania	Microencapsulation
32.	Ms. Swabnam Khataniar	Drug stability
33.	Ms Juti Rani Devi	Introductory approach to targeted drug delivery system
34.	Dr. Krishna Yadav	Evolution of learning
35.	Dr. Achal Mishra	Docking study of Quinoxalene derivative as selective dihydro folate reductase (DHFR) inhibitor.
36.	Dr. Anish Chandy	Strategy development of target specific drug delivery for cancer.
39.	Dr. Rajendra Jangde	Development of liposomal encapsulated quercetin for wound healing
21.	Dr. Somesh Kumar Saxena	Targeted therapy for cancer
22.	Dr. Rupal Dubey	Nanoparticles- Fascinating tool for drug delivery to brain

Day 9

Session I (10.30-12.00)

31. Dr. Ashok Omare, is conducted on topic entitled 'Innovation in Pharmaceutical Dosage Forms' by Resource Person **Dr. Ashok Omare**, Senior Pharma Professional Ex-President (Ideal Cures Pvt. Ltd.), Mumbai, M.H.

Dr. Omarey explains that how these new developments can the help to improve patient compliance and quality of life, which will lead to more effective treatment. They can also enable more small-batch and personalized medications by developing more cost-effective pharmaceutical production procedures. Then why it is essential in pharmaceutical industry, to use innovation for development of dosage form developments.

Session II (12.15-13.45)



32. Dr. Anurag Sood, is conducted on topic entitled 'Tools and Technologies for Drug Discovery and Development' by Resource Person **Dr. Anurag Sood**, EVP and Head – BRAIN Dr. Reddy's Laboratories Hyderabad, Telangana

Dr. Sood explains how different pharmaceutical approaches can help to improve oral bioavailability, which in turn helps to meet formulation goals for oral delivery. When it comes to designing and formulating a polypeptide drug delivery through the stomach and intestines, it's been a long-running problem because of their unfortunate physical and chemical properties. These include enzymatic degradation, poor membrane permeability and big molecules. Less than 1% of oral bioavailability needs to be changed to at least 30% to 50%. As a result, there have been a lot of efforts over the last few decades to look into oral delivery of proteins and peptides. Every oral dosage form used for small molecule drugs has also been used to look into oral delivery of proteins and peptides. Chemical modification, formulation vehicles, enzyme inhibitors, absorption enhancers, and mucoadhesive polymers are some of the strategies being looked into right now.

Session III (14.15-15.45)



Dr. Preethi Kothiyal, is conducted on topic entitled 'Renaissance in Pharmacy education – Harnessing new modes of Teaching' by Resource Person **Dr. Preethi Kothiyal**, Pro Vice Chancellor (Health Sciences), Dev Bhoomi, Uttarakhand University, Dehradun

The lecture given on the following key points which is understandable:

- Peer Tutoring
- E-Tutoring
- Blended approach in Teaching
- Online platforms
- Quality teaching – Ignite mind, Creative minds & Competent future manpower.
- Faculty upgrade.

Session IV(16.00-17.30)



Prof. Swarnlata Saraf, is conducted on topic entitled 'Project Evaluator' by Resource Person **Prof. Swarnlata Saraf**, Director, University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur, (C.G.)

Group No.	NAME	TITLE OF THE PRESENTATION
1		
2		

3		

Day 10

Session I (10.30-12.00)



35. Dr. Manjit Singh, Our first guest lecture for the 10th day program was delivered by Dr. Manjit Singh, who has over 26 years of teaching experience. Sir delivered lecture on "Participant Centered Learning Process". This PCL method is usually designed for students to be actively involved in process of learning.

It is about communication skill, leadership & teamwork. To understand this concept, Sir made us understand the topic by sharing his experiences and how he applied this PCL concept in his teaching profession so as to make students aware of real-life problems and intense pressure.

Session II (12.15-13.45)



36. Dr. Vijay Kumar Shrotriya, We were then delighted to have another prominent Guest lecturer Dr. Vijay Kumar Shrotriya, who delivered a lecture on the topic "Business Market & Sustainable." He easily took us throughout the topic by mentioning the key, tools & concept of business markets & sustaining the same. He

also mentioned about the management and coordination of environmental, social and financial demands and concerns to ensure responsible ethical and on-going success. Many real-life experiences were also provided by Dr. Vijaykumar Sir which kept our attention intact.

Session III (14.15-15.45)



Prof. Roop Krishen Khar, is conducted on topic entitled 'Project Evaluator' by Resource Person **Prof. Roop Krishen Khar**, Director, B.S. Anangpuria Educational Institutions Faridabad, Haryana.

The list of participants along with their group and presented topics are listed below:

Group No.	NAME	TITLE OF THE PRESENTATION
7	Dr Sweeta Mishra	Enhancement of stability of riboflavin by formulation and evaluation of its β -cyclodextrin complexes
	Dr Vikash Budhwar	
	Dr Rajendra Sahu	
	Dr Ashwanee Kumar Sahu	
8	Dr Yugal Kishore Rajput	Preparation and Evaluation of Novel Topical Formulation for the Effective Management of Soriasis
	Dr.Madhulika Pradhan	
	Ms. Ratnali Bania	
	Ms. SwabnamKhataniar	
9	Ms Juti Rani Devi	A comparative study of approved drugs for SARS-CoV-2 by molecular docking
	Dr. Krishna Yadav	
	Dr.Achal Mishra	
	Dr. Anish Chandy	

Session IV (16.00-17.30) MCQ Test



Prof. Sanju Nanda, is conducted on topic entitled 'Research in Cosmeceuticals with new Tools & Technologies, enhancing beauty with science' by Resource Person **Prof. Sanju Nanda**, Dept. of Pharmaceutical Sciences, M.D. University, Rohtak, Haryana

But before starting of the main topic she discussed one of the essential topic related to teaching profession. In this discussion she explains why a human being should have a purpose in life and points out some important characteristics of a teacher, such as-

1. Innovate
2. Educate
3. Improvise
4. Disseminate

Then she completed her discussion with some taglines like- ***“Teachers are like old wine”, “Keep a good attitude, forget and forgive”etc.***

After that with her main topic mam given one statement –***“Skin is not only a wrapping paper”*** and explains the importance of cosmetics for skin protection, nourishment and beautification. From the presentation we got to know that hydrated skin is important for effective applications of cosmetics, present scenario & novel drug delivery systems in cosmetics along with the importance of herbal formulation for the better improvement of cosmeceutical preparations.

Day 11

Session I (10.30-12.00)



Dr. Bala Prabhakar, is conducted on topic entitled ‘Innovation approaches for drug delivery’ by Resource Person **Dr. Bala Prabhakar**, Dean, SPP School of Pharmacy & Technology Management, SVKM’s NMIMS, Mumbai.

She has told revolutionary procedures for drug shipping system

She has instructed studies ought to be an advantage for person and welfare purpose. it studies ought to be service orientated and focus in mind. Research ought to be primarily based totally on a huge area, collaborative learning, more than one author, guide encouraging such activity. nowadays Indian corporations discover natural formulas and nutraceutical formulas for widespread pills for the higher market. Shipping service along with dendrimers, strong lipid nanoparticle, cyclodextrins, and liposomes micelles are formulated drugs. Future advances will embrace the concepts of variable or pulsed release in order to meet particular therapeutic criteria. Equally important will be the extension of transit time in order to increase the uptake of some poorly absorbed drugs, or to extend dosage

intervals to twenty-four hours. Attempts to more closely approach constant release rates at the end of the release period, to devise efficient formulae which carry drug loadings in excess of percent, or to invent formulae that, whilst retaining the precision, are cheaper and more easily manufactured are less innovative aspects of this important field. The commercial success of percutaneous presentation of glyceryl trinitrate has prompted further refinement of this principle and guidelines for exploitation are now clearer. The development of acceptable penetration enhancers remains an important element in extending this principle to a wide range of drugs.

Session II (12.15-13.45)



Dr. Anshuman Dixit, is conducted on topic entitled 'The role of bioinformatics in current pharmaceutical research' by Resource Person **Dr. Anshuman Dixit**, Scientist E Institute of Life Sciences, Bhubaneswar, Odisha

Bioinformatics is a new discipline that addresses the need to manage and interpret the data that in the past decade was massively generated by genomic research. This discipline represents the convergence of genomics, biotechnology and information technology, and encompasses analysis and interpretation of data, modeling of biological phenomena, and development of algorithms and statistics. Bioinformatics is by nature a cross-disciplinary field that began in the 1960s with the efforts of Margaret O. Dayhoff, Walter M. Fitch, Russell F. Doolittle, and others and has matured into a fully developed discipline. However, bioinformatics is wide-encompassing and is therefore difficult to define. For many, including myself, it is still a nebulous term that encompasses molecular evolution, biological modeling, biophysics, and systems biology. Molecular dynamics analysis, virtual screening, protein-structure function studies with special reference to protein kinases. Sir has also taught us Computational Biology and Bioinformatics in various aspects of pharmaceutical research. lab works should be on the identification of drug targets, roles of RNA in cancer, development of databases, drug discovery, molecular dynamics, and structure-function relationships in proteins. Sir has told on the topic introduction to the world of bioinformatics.

Session III (14.15-15.45)



Prof. Indu Pal Kaur, is conducted on topic entitled ‘CurPro: Wound dressing sponge (S) containing nanocurcumin (Cur) and live Lactobacillus Plantarum (Pro) for infected wounds.’ by Resource Person **Prof. Indu Pal Kaur**, Chairperson, University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh

The session was started with welcome note and brief introduction of the speaker and that was given by Dr. Gajanand Engla chairperson of the session; Prof. Kaur enlighten us about the solid lipid nanoparticle (SLN) drug delivery system and given a very good insight about Curcumin solid lipid nanoparticle formulated by her lab only and describe the things and protocols in detail about the formulation, characterization and biological evaluation of formulated SLN based dressing sponge and the utility of such sponge in actual sense. The session is very much interactive or rather interesting as Madam resolved the doubts and queries raise by all the participants. Prof. Preeti V. Suresh Madam coordinator of the Course also convey the gratitude towards the speaker and session was closed by the vote of thanks delivered by the moderator of the session.

Session IV (16.00-17.30)



Dr. Sushama Talegaonkar, is conducted on topic entitled ‘Adaptation of the quality by design concept in early pharmaceutical development of biopolymeric nanocarriers’ by Resource Person **Dr. Sushama Talegaonkar**, School of Pharm. Sciences, Delhi Pharmaceutical Science and Research University, New Delhi.

The session was started with welcome note and brief introduction of the speaker; Dr. Sushama delivered her talk on concept of “**quality by design**” in not only in the

pharmaceutics, but it is the today's need of all the fields, discuss in detail about factorial design and all. Madam mainly emphasize on design and development of Lignin nanocarriers by the design expert software, also discussed the various role or uses of lignin itself as it is the natural polymer and have much potential as antioxidant, Bio-adhesive, UV protectant properties etc. Discussed in details about preparation, characterization and biosafety of blank lignin nanoparticles (BLNPs); impact of BLNPs in cancer cell lines and also mention the Genotoxicity studies of the of BLNPs. Prof. Preeti Madam coordinator of the Course convey the gratitude towards the speaker and the session was closed by the vote of thanks delivered by the moderator of the session.

Day 12

Session I (10.30-12.00)

M.E. Kannan, is conducted on topic entitled 'Modern Tool in pharmaceutical technology (Application of NIR/PAT tools in pharmaceutical dosage forms)' by Resource Person **M.E. Kannan**, VP & Head Pharmaceutical Technology Center, Zydus Cadila

The session was started with welcome note and brief introduction of the speaker and that was given by Dr. Upsana Yadhav chairperson of the session; Mr.M.E.Kannan enlightens us about the application of NIR/PAT tools in pharmaceutical dosage forms. He told us that NIR/PAT tools useful in qualitative and quantitative analysis like for raw material analysis, polymorphisam study etc. He explained that NIR spectroscopy can be used as Off-line/On-line/At-line/In-line. He has given a very good insight about development of quantitative NIR model. Sir, explained well hot melt extrusion with different polymers. The session is very much interactive or rather interesting as sir resolved the doubts and queries raise by all the participants. Prof. Preeti V. Suresh Madam coordinator of the Course also convey the gratitude towards

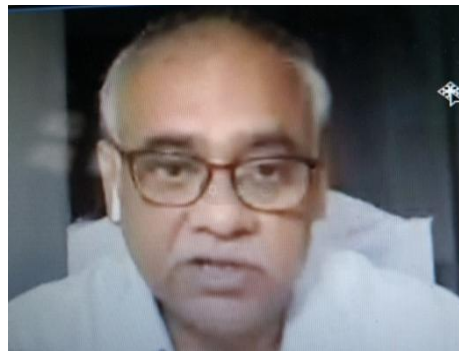
the speaker and session was closed by the vote of thanks delivered by the moderator of the session.

Session II (12.15-13.45) - **Valedictory**

Organizing Team



Prof. K. L. Verma
Vice Chancellor
Pt. Ravishankar Shukla
University, Raipur (C.G.)



Dr. Shailendra Saraf
Director
HRDC, Pt. Ravishankar Shukla
University, Raipur (C.G.)



Prof. Preeti K Suresh
(Course Coordinator)
University Institute of
Pharmacy, Pt. Ravishankar
Shukla University, Raipur
(C.G.)



Prof. Swarnlata Saraf
(Convener)
University Institute of
Pharmacy, Pt. Ravishankar
Shukla University, Raipur
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Dr. Arvind Agrawal
(HRDC Course Coordinator)
University Institute of
Pharmacy, Pt.
Ravishankar Shukla
University, Raipur (C.G.)

UGC - HRDC, PRSU, Raipur

Time Table: Refresher Course on Pharmacy

(06/12/2021 to 20/12/2021)

Multidisciplinary Refresher Course in Pharmacy (06-20 December, 2021) UGC-Human Resource Development Centre <i>In association with</i> University Institute of Pharmacy Pt. Ravishankar Shukla University, Raipur 492 010, Chhattisgarh							
Day/ Date	Session -I (10:30 to 12:00)		Session -II (12:15 to 13:45)		Session -III (14:15 to 15:45)		Session -IV (16:00 to 17:30)
Day 01 (06.12.21)	Registration Inauguration Induction		Lecture-1 Tools in the Design and Development of Drug Delivery Systems Prof. Mala D. Menon Bombay College of Pharmacy, Kalina, Santacruz (E) Mumbai		Lecture-2 Pharmacophore Mapping: A tool for rational drug designing Dr. Om Silakari Molecular Modeling Lab, Department of Pharmaceutical Sciences & Drug Research, Punjabi University, Patiala, Punjab		Lecture-3 Pharmacophore mapping: Applications Dr. Om Silakari Molecular Modeling Lab, Department of Pharmaceutical Sciences & Drug Research, Punjabi University, Patiala, Punjab
Day 02 (07.12. 21)	Lecture-4 Reformulation strategies addressing unmet needs for product life cycle extension Dr. Ajay J. Khopade Vice President F R&D at Sun Pharmaceutical Industries Limited, Vadodara, Gujarat		Lecture-5 Pharmaceutical Technology: Bioelectronics and beyond Prof. Shubhini A. Saraf School of Biomedical and Pharmaceutical Sciences, Babasaheb Bhimrao Ambedkar University, Lucknow, 226025	Lunch Break	Lecture-6 3D Printing Methodologies and their Pharmaceutical Applications Prof. Kamla Pathak Dean, Faculty of Pharmacy University of Medical Sciences, Saifai, Etawah (U	Tea Break	Lecture-7 Pastillation Technology for Controlled and Pulsatile Drug delivery Prof. B. Mishra Department of Pharmaceutical Engineering and Technology, Indian Institute of Technology (BHU), Varanasi-221 005.
Day 03 (08.12. 21)	Lecture-8 Importance of Translational Research in Pharmaceutical Field Prof. Subheet Jain Dept. of Pharm. Sciences Guru Nanak Dev University, Amritsar, Punjab-143005	Tea Break	Lecture-9 PK/PD Modelling and Simulation Studies of Lipoprotein Based Nanoparticles and Phytochemicals Dr. Sunil Kumar Dubey General Manager Medical Research R&D Healthcare Division Emami Ltd, Kolkata (WB)	Lunch Break	Lecture-10 Drug Design and Discovery through structure-based drug design approach Dr. Sushil Kashaw Dept. of Pharmaceutical Sciences, Dr. H.S. Gour Vishwavidyalaya, Sagar (MP)	Tea Break	Lecture-11 Computational Pharmaceutics: Opportunities and Challenges Prof. Vandana Patravale Department of Pharmaceutical Sciences and Technology, Institute of Chemical Technology, Mumbai

Day 04 (09.12.21)	<p>Lecture-12 Research A Mindset: How to develop is a million dollar Q (sharing my UIPS JOURNEY chasing EXCELLENCE through liposomes)</p> <p>Prof. O. P. Katare University Institute Pharmaceutical Sciences, Panjab University, Chandigarh</p>	<p>Lecture-13 Third Decade of Twenty First Century – Challenges and Opportunities</p> <p>Prof. Ranjit Singh Vice-Chancellor Shobhit University, Gangoh, Saharanpur UP</p>	<p>Micro Teaching (1-10)</p> <p>Prof. Kanchan Kohli Director (Research & Publications) Lloyds Institute of Pharmacy and Technology Greater Noida</p>	<p>Micro Teaching (11-20)</p> <p>Prof. Kanchan Kohli Director (Research & Publications) Lloyds Institute of Pharmacy and Technology Greater Noida</p>
Day 05 (10.12.21)	<p>Lecture-14 Supercritical Fluid Technology: Modern Tool in Herbal Drug Discovery and Development</p> <p>Prof. Vimal Kumar Dean, School of Pharmacy, ITM (SLS) Baroda University, Vadodara</p>	<p>Lecture-15 Investigations on Utility of LC-MS/MS and Related Techniques on Impurity Profiling</p> <p>Prof. Krishnapriya Mohanraj Head, Department of Pharm. Analysis, Bombay College of Pharmacy, Kalina, Santacruz (E), Mumbai</p>	<p>Micro Teaching (21-30)</p> <p>Dr. M.S. Sudheesh Amrita Health Science Campus, Amrita Vishwa Vidyapeetham, Ponekkara, Kochi 682041, India.</p>	<p>Micro Teaching (31-39)</p> <p>Dr. M.S. Sudheesh Amrita Health Science Campus, Amrita Vishwa Vidyapeetham, Ponekkara, Kochi 682041, India.</p>
Day 06 (11.12.21)	<p>Lecture-16 Understanding the principles of Pharmacokinetic compartmental analysis</p> <p>Dr. Amit Alexander Associate Professor, National Institute of Pharmaceutical Education and Research, Guwahati</p>	<p>Lecture-17 Stepchild of Pharmacy Education</p> <p>Dr. Jayant Karajgi COO, Formulations SHILPA MEDICARE LTD Mumbai, Maharashtra</p>	<p>Lecture-18 Biosafety Regulation: Development of Biopharmaceuticals</p> <p>Dr. Nitin Kumar Jain Scientist, Department of Biotechnology, Ministry of Science and Technology, New Delhi</p>	<p>Lecture-19 Risk Management for Effective Medication</p> <p>Prof. B. Mishra Department of Pharmaceutical Engineering and Technology, Indian Institute of Technology (BHU), Varanasi-221 005.</p>

Multidisciplinary Refresher Course in Pharmacy (06-20 December, 2021)

UGC-Human Resource Development Centre

In association with

University Institute of Pharmacy

Pt. Ravishankar Shukla University, Raipur 492 010, Chhattisgarh

Day/ Date	Session -I (10:30 to 12:00)		Session -II (12:15 to 13:45)		Session -III (14:15 to 15:45)		Session -IV (16:00 to 17:30)
Day 07 (13.12.21)	<p align="center">Seminar (1-10)</p> <p>Dr. Neeraj Upmanyu Registrar National Institute of Pharmaceutical Education and Research, Hajipur</p>	—	<p align="center">Seminar (11-20)</p> <p>Dr. Neeraj Upmanyu Registrar National Institute of Pharmaceutical Education and Research, Hajipur</p>	—	<p align="center">Lecture-20 FDA-Approved Medical Devices (2021)</p> <p>Prof. Meenakshi Bajpai Head, Institute of Pharmaceutical Research GLA University, Mathura</p>	—	<p align="center">Lecture-21 Molecular Pharmaceutics and dynamics of nanoformulations</p> <p>Prof. Shubhini A. Saraf School of Biomedical and Pharmaceutical Sciences, Babasaheb Bhimrao Ambedkar University, Lucknow, 226025</p>
Day 08 (14.12.21)	<p align="center">Lecture-22 Designer Nanoparticles For Splentropic Delivery - A Serendipity Prof. Padma Devarajan Department of Pharmaceutical Sciences and Technology, Institute of Chemical Technology, Mumbai</p>	—	<p align="center">Lecture-23 Skin analyser as a tool for the assessment of severity of psoriasis skin</p> <p>Dr. N. P. Yadav Principal Scientist CSIR-Central Institute of Medicinal and Aromatic Plants, PO CIMAP, Lucknow</p>	—	<p align="center">Seminar (21-30)</p> <p>Prof. Zulfikar Ali Bhat Department of Pharmaceutical Sciences, University of Kashmir Hazratbal, Srinagar - 190006</p>	—	<p align="center">Seminar (31-39)</p> <p>Prof. Zulfikar Ali Bhat Department of Pharmaceutical Sciences, University of Kashmir Hazratbal, Srinagar - 190006</p>
Day 09 (15.12.21)	<p align="center">Lecture-24</p> <p>Innovation in Pharmaceutical Dosage Forms Dr. Ashok Omray Senior Pharma Professional Ex-President (Ideal Cures Pvt. Ltd.), Mumbai</p>	—	<p align="center">Lecture-25</p> <p>Tools and Technologies for Drug Discovery and Development Dr. Anurag Sood EVP and Head - BRaIN Dr. Reddy's Laboratories Hyderabad, Telangana</p>	—	<p align="center">Lecture-26</p> <p>Renaissance in Pharmacy Education - Harnessing New Modes of Teaching Learning Dr. Preeti Kothiyal Pro Vice-Chancellor (Health Sciences) Dev Bhoomi Uttarakhand University, Dehradun</p>	—	<p align="center">Project Presentation (1-3)</p> <p>Prof. Swarnlata Saraf Director University Institute of Pharmacy Pt. Ravishankar Shukla University, Raipur, Chhattisgarh</p>

<p>Day 10 (16.12.21)</p>	<p>Lecture-27 Pharmacy Education and its Applications in Pharmaceutical Industry</p> <p>Dr. Subhash Pande Senior Pharma Professional Ex Lupin, Glenmark, Zydus Cadila, Ahmedabad, Gujarat</p>	<p>—</p>	<p>Project Presentation (4-6)</p> <p>Prof. Roop Krishen Khar Director, B.S. Anangpuria Educational Institutions Faridabad (Haryana)</p>	<p>Project Presentation (7-9)</p> <p>Prof. Roop Krishen Khar Director, B.S. Anangpuria Educational Institutions Faridabad (Haryana)</p>	<p>Lecture-28 Research in Cosmeceuticals: Need for Consciousness in Science</p> <p>Prof. Sanju Nanda Dept. of Pharm. Sciences, M.D. University, Rohtak (Haryana)</p>
<p>Day 11 (17.12.21)</p>	<p>Lecture-29 Innovative approaches for drug delivery</p> <p>Dr. Bala Prabhakar Dean, School of Pharmacy & Technology Management, SVKM's Narsee Monjee Institute of Management Studies (NMIMS), Mumbai</p>	<p>—</p>	<p>Lecture-30 The role of bioinformatics in current pharmaceutical research</p> <p>Dr. Anshuman Dixit Senior Scientist Institute of Life Sciences, Bhubaneswar</p>	<p>Lecture-31 CurPro S: Wound dressing sponge (S) containing nanocurcumin (Cur) and live Lactobacillus Plantarum (Pro) for infected wounds</p> <p>Prof. Indu Pal Kaur Chairperson University Institute Pharmaceutical Sciences, Panjab University, Chandigarh</p>	<p>Lecture-32 Adaptation of the quality by design concept in early pharmaceutical development of biopolymeric nanocarriers</p> <p>Dr. Sushama Talegaonkar School of Pharm. Sciences Delhi Pharmaceutical Science and Research University, Pushp Vihar, Sector 3, New Delhi-17</p> <p>Test (MCQ)</p>
<p>Day 12 (20.12.20)</p>	<p>Lecture-33 Modern Tools in Pharmaceutical Technology (Application of NIR/PAT Tools & Application of Hot Melt Extrusion Techniques) M.E. Kannan VP & Head Pharmaceutical Technology Center, Zydus Cadila, Ahmedabad</p>	<p>—</p>	<p>Valedictory & Concluding Session</p>		

Refresher Course – Pharmacy
(06.12.2021 to 20.12.2021)
Participants List
Course Coordinator - Prof. Preeti K Suresh

S. No.	Name of Participants	Email Address	Mobile Number	Photo	Name of College	Affiliated University
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S. No.	Name of Participants	Email Address	Mobile Number	Photo	Name of College	Affiliated University
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20.	Mohammed Junaid Khan	junaid1010@gmail.com	9826141303		University Department of Pharmacy	Sant Gahira Guru University, Sarguja Ambikapur, (C.G.)
21.	Somesh Kumar Saxena	somesh1207@gmail.com	9669430469		School of Pharmacy & Research, People's University, Bhopal, (M.P.)	People's University, Bhopal, (M.P.)
22.	Dr. Rupal Dubey	drupal_dubey@peoplesuniversity.edu.in	9171023503		School of Pharmacy & Research, People's University, Bhopal, (M.P.)	People's University, Bhopal, (M.P.)
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25.	Shweta Mishra	shweta.mishra@saip.ac.in	9039663860		Sri Aurobindo Institute of Pharmacy, Indore, (M.P.)	Rajiv Gandhi Technical University, Bhopal, (M.P.)

S. No.	Name of Participants	Email Address	Mobile Number	Photo	Name of College	Affiliated University
26.	Dr. Vikas Budhwar	Vikaasbudhwar@yahoo.com	9466673246		Department of Pharmaceutical Sciences	Maharshi Dayanand University, Rohtak, Haryana
27.	Rajendra Sahu	sahurajendra0107@gmail.com	8085839545		School of Pharmacy, ISBM University, Gariyaband, (C.G.)	ISBM University, Gariyaband, (C.G.)
28.	Ashwaneer Kumar Sahu	ashwaneesahu821@gmail.com	7909900325		School of Pharmacy, ISBM University, Gariyaband, (C.G.)	ISBM University, Gariyaband, (C.G.)
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30.	Madhulika Pradhan	madhulika.pradhan1@gmail.com	9770148688		Rungta College of Pharmaceutical Sciences and Research, Bhilai, (C.G.)	Chhattisgarh Swami Vivekananda Technical University, Bhilai, (C.G.)
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32.	Ms. Swabnam Khataniar	swabnam00@gmail.com	6295647298		Pratiksha Institute Of Pharmaceutical Sciences, Guwahati, Assam	Assam Science & Technology University, Guwahati, Assam
33.	Juti Rani Devi	jutiranidevi@gmail.com	8876649885		Pratiksha Institute Of Pharmaceutical Sciences, Guwahati, Assam	Assam Science & Technology University, Guwahati, Assam
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37.	Ashish Kumar	abukumar1997@gmail.com	9459218377		School of Pharmacy, Arni University Kathgarh (Indora) Kangra, Himachal Pradesh	Arni University Kathgarh (Indora) Kangra, Himachal Pradesh
38.	Ajay Kumar	ajaykumarph780@gmail.com	7807156841		School of Pharmacy, Arni University Kathgarh (Indora) Kangra, Himachal Pradesh	Arni University Kathgarh (Indora) Kangra, Himachal Pradesh
39.	Dr. Rajendra Kumar Jangde	rjangdepy@gmail.com	9691409181		University Institute of Pharmacy	Pt. Ravishankar Shukla University, Raipur, (C.G.)

Refresher Course – Commerce and Management

(11.11.2021 to 25.11.2021)

Participants List

Course Coordinator - Prof. A.K. Shrivastav

Chairperson and Reporter List

S. No.	Date	Session I and II		Session III and IV	
		Chairperson Session I (10:30 to 12:00)	Reporter Session II (12:15 to 13:45)	Chairperson Session III (14:15 to 15:45)	Reporter Session IV (16:00 to 17:30)
1	06.12.2021	Dr Payal Dande	Dr.S.Kiran Kumar	Dr.J.Prasanna Kumari	Pratap Kalita
2	07.12.2021	Quri Kiron Hazarika	Dr Sweety Lanjhiyana	KHEMKARAN AHIRWAR	Ankur Vaidya
3	08.12.2021	Dr. Gajanand Engla	Dr. Ranjit Vinayak Gadhawe	Dr.Rani Shantaram Kankate	Dr. Upasana Yadav
4	09.12.2021	Nikunj Agarwal	Sunil Kum ar Dwivedi	Dr. Anu Hardenia	Rajashekar Perusomula
5	10.12.2021	Dr. Anurag Khatkar	Dr. Jahnavi Bandla	Vineet Mittal	Mohammed Junaid Khan
6	11.12.2021	Somesh Kumar Saxena	Dr. Rupal Dubey	Dr. Raveesha Peeriga	Dr. Sudha Vengurlekar
7	13.12.2021	Shweta Mishra	Dr. Vikas Budhwar	Rajendra	Ashwaneer Kumar Sahu
8	14.12.2021	Yugal Kishor Rajput	Madhulika Pradhan	Ratnali Bania	Ms. Swabnam Khataniar
9	15.12.2021	Juti Rani Devi	Dr. Rajendra Kumar Jangde	Dr.S.Kiran Kumar	Dr Payal Dande
10	16.12.2021	Pratap Kalita	Ajay Kumar	Dr Sweety Lanjhiyana	Quri Kiron Hazarika
11	17.12.2021	Ankur Vaidya	Khemkaran Ahirwar	Ashish Kumar	Dr. Gajanand Engla
12	20.12.2021	Dr. Upasana Yadav	Dr.Rani Shantaram Kankate	Dr. Achal Mishra	Anish Chandy

Assessment Criterion and Marking:

Multiple-choice objective tests:	30
Seminars / participant presentation:	15
Project / survey / others:	20
Micro-teaching / participation:	10
Holistic response:	25
Total:	100

Grading pattern (based on Marks)

- A+ : 85 percent and above
- A : 70 percent to less than or equal to 84 percent
- B : 60 percent to less than or equal to 69 percent
- C : 50 percent to less than or equal to 59 percent
- F : Below 49 percent

Those teacher participants who score F grade are required to repeat the program after a gap of one year without financial commitment to UGC-HRDC.

Online Delivery Platform: GOOGLE MEET



UGC - Human Resource Development Centre
Pt. Ravishankar Shukla University, Raipur



Organized

**Online Multidisciplinary Refresher Course in
Biotechnology**

December 13 to 28, 2021

Report

Name of Course/Program:	Online Multidisciplinary Refresher Course in Biotechnology
Name of Contact person from HRDC:	Dr. Arvind Agrawal
Date of Course/Program:	13.12.2021 to 28.12.2021
Name of Course Coordinator:	Dr. Keshav Kant Sahu Professor & Head School of Studies in Biotechnology Pt. Ravishankar Shukla University, Raipur
Theme of Course/Program:	Multidisciplinary Refresher Course in Biotechnology
Number of Participants:	25
State wise number of participants:	Chhattisgarh- 18, New Delhi- 02, Uttar Pradesh- 02, West Bengal- 01, Maharashtra- 01, Manipur- 01
Gender wise number of participants:	Male: 08, Female: 17
Number of Resource Persons	37
Name and Signature of the Course Coordinator	
Dr. Keshav Kant Sahu Professor & Head School of Studies in Biotechnology Pt. Ravishankar Shukla University Raipur	Dr. Arvind Agrawal Assistant Professor Human Resource Development Centre Pt. Ravishankar Shukla University Raipur

Multidisciplinary Refresher Course in Biotechnology

(13.12.2021 - 28.12.2021)

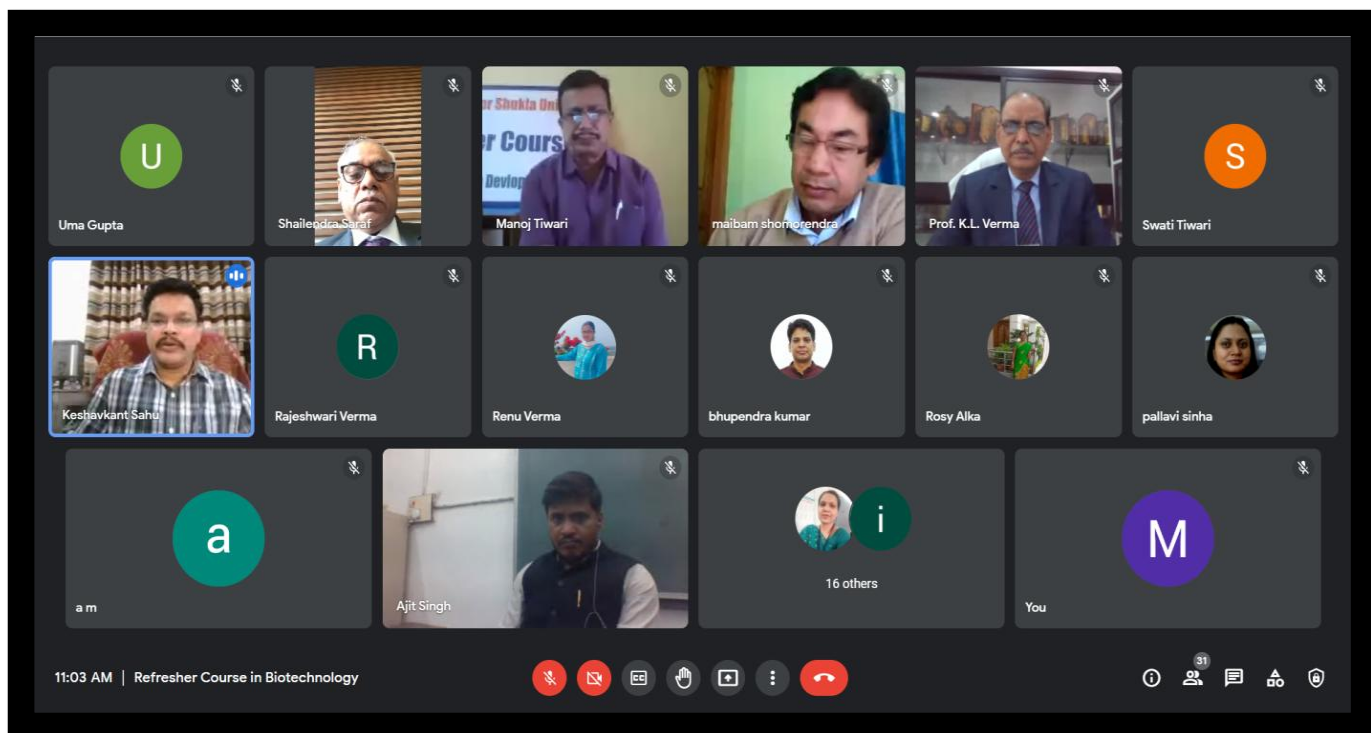
A Multidisciplinary Refresher Course in “Biotechnology” was organized by Human Resource Development Centre, Pt. Ravishankar Shukla University Raipur, in collaboration with School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur from 13th -28th , December 2021. The course was attended by twenty Five registered participants from across the country. 16 outstation and 09 local participants attended the same. 37 resource persons delivered lectures.

DAY 1

Session I (10.30-12.00) Inaugural Function

The Program commenced with the Inaugural Function at 10.00 a.m. with **Chief Guest as Hon’ble Vice Chancellor Prof. K L Verma, Pt. Ravishankar Shukla University, Raipur.** With Director - **Prof. Shailendra Saraf, Director, Human Recourse Development Center, Pt Ravishankar Shukla University, Raipur** and Course Coordinator **Dr. Keshav Kant Sahu, Professor & Head, School of Studies in Biotechnology, Pt Ravishankar Shukla University, Raipur** the Program commenced by welcoming them, which was followed by Introduction of the Participants, Introduction about the course by Course Coordinator and Address by the Director HRDC- Pt RSU.

Inaugural Address was given by Hon’ble Vice Chancellor Sir who focused his speech on the developments made in the Biotechnology field and how this course will be beneficial in updating the teachers. Finally Vote of Thanks was given by the Course Coordinator.



Session II (12:15 to 13:45)



1. Dr. Sujoy Kumar Das Gupta of Department of Microbiology, Centenary Campus Bose Institute, Kolkata, West Bengal, spoke on the topic entitled 'DNA the Beautiful Molecule of Life'.

He elaborated all the concepts of the chronological development of DNA as genetic material. He also explored the importance of basic research with the contribution of different Scientists in the journey of DNA to the genome and the new emerging technologies in the field of Biotechnology. At the last, all the participants interacted and asked their queries to Dr. Sujoy Kumar Das Gupta.

Session III (14.15 to 15.45)



2. Dr. Rinkoo D Gupta of Faculty of Biotechnology, South Asian University, Chankyapuri, New Delhi, delivered lecture on the topic entitled 'Designing and Production of Therapeutic Monoclonal Antibody'.

She mentioned that first of all we should think about purpose of designing a monoclonal antibody. She explained three different approaches for designing a new protein : (i) rational protein designing, (ii) directed laboratory evolution and (iii) semi rational designing. She elaborated the steps to be followed for protein engineering including selection of gene, mutagenesis (3-4 rounds), creating a gene library, selection process of mutant colonies and finally selection of mutated gene. Mutagenesis can be done by in silico designing, random mutagenesis, site directed mutagenesis, insertions-deletions, DNA shuffling and domain swapping. She explained in detail the targeted or site directed mutagenesis by using degenerate primers. The gene functionality is checked by using expression hosts. The expression hosts which are being used generally are *Escherichia coli* (Bacteria), *Saccharomyces*, mammalian cell lines, *Xenopus* oocyte and baculovirus in insect larva. There is also cell free expression system. While selecting the expression hosts, there is a need to take into consideration the limitations of this approach like codon bias, protein folding and post translational modifications. Libraries are screened using ELISA or agar plate method if the number of colonies to be screened is less whereas high throughput screening is done by fluorescent activated cell sorter (FACS) when the library size is greater than 10^6 . Later, she explained the strategies being followed in her laboratory for development of monoclonal antibodies against dengi virus. Variable CDRs have been identified for raising the monoclonal antibodies. She apprised the participants about the major challenges being faced by her and group in the development of effective monoclonal antibodies against 4 serotypes of dengi virus.

Session IV (16.00 to 17.30)



3. Dr. Debashish Chakrabarty, Senior Scientist Biotechnology Division NBRI, Rana Pratap Marg Lucknow, Uttar Pradesh, delivered lecture on 'Application of NGS (New Generation Sequencing) for Functional Genomics Study'.

His area of research is improvement of new cultivar of rice because Uttar Pradesh state is prone to drought conditions. He collected 106 cultivars, exposed them to drought conditions to identify the drought tolerant varieties of rice. One of the rice variety is "Kiran" which is drought tolerant. Transcriptome analyses were done at different time intervals. Bioinformatics analyses of the transcriptome data help in the identification of differential genes between the markers present on chromosome 3. Using proteome analysis differential protein in 2 cultivars were identified and found the correlation between transcriptome and proteome data. Proteins were identified by MALDI-TOF. His studies revealed the chaperone protein activities in relation to stress. There is a role of dehydrin FK506 binding protein complex in enhancing the drought tolerance. Dehydrin mechanism of working was described by morphological and anatomical studies. Lignin synthesis occurs when there is expression of dehydrin. The dehydrin gene was localized and it was found that it is involved in transcriptional regulation. His group explained the role of OmMYB-R1 transcription factor in drought conditions. The OmMYB-R1 is a stress responsive gene whose overexpression provides tolerance to drought, heavy metals and fungal infection. They also deciphered the pathway of genes working during stress conditions. He also explained the studies which proved that nitric oxide mediated transcriptional modulation enhance the adaptive plant responses against arsenic stress. He described the methyl jasmonate treatment for managing the arsenic toxicity in rice plants. He apprised the participants about the usefulness of new generation sequencing methods in the identification of useful SNPs for developing characters and phenotypes of plants

DAY 2

Session I (10.30-12.00)



4. Prof Josef Selvin of Department of Microbiology, Pondicherry University, Puducherry, spoke on 'Synthetic Biology Advances: Creation of Aliens and Synthetic Life'.

He delivered very interesting lecture on recent developments in genomics and metagenomics which created a new platform for synthetic or designer genome which is important for pharmaceutical industries it also play an important role in bio engineering of secondary metabolite. By a interesting video he explained that synthetic biology show hope for rebirth of endangered animal like wooly mammoth.

Session II (12.15-13.45)



5. Dr. Sujoy Kumar Das Gupta of Department of Microbiology, Centenary Campus Bose Institute, Kolkata, West Bengal, spoke on the topic entitled 'The Evolving Story of CRISPR cas.'

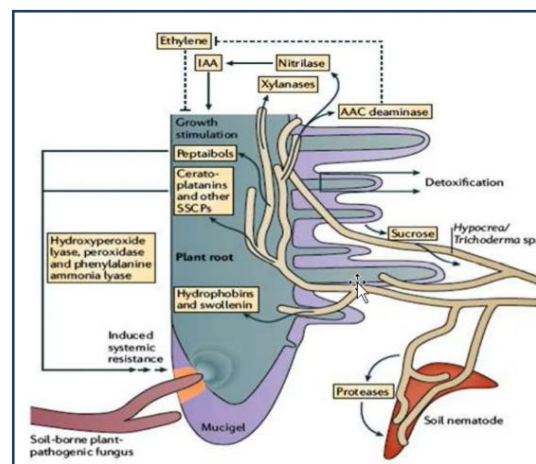
It's a new kind of working area where we come to know about relationship between bacteria and their viruses. The study shows that bacteria also show immunity against adversaries. CRISPR cas. is also an excellent example of Lamarckism evolution.

Session III (14:15 to 15:45)



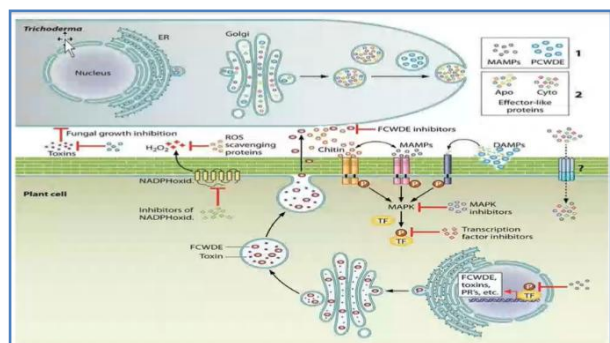
6. Prof. Anita S Patil of Plant & Microbial Secondary Metabolite Lab Department of Biotechnology Sant Gadge Baba Amravati University, Amravati, Maharashtra, delivered lecture on the topic entitled '*Trichoderma*: A Potential Biocontrol Tool/Boon for Management of Plant Pathogens'.

She began by explaining that *Trichoderma* is a genus of filamentous fungus occurring in soil and capable of colonizing and multiplying in various habitats. Now more than 200 species are recorded of which only about 20 have been recorded from soil. The common species of *Trichoderma* that are opportunistic human pathogens include *T. reesei*, *T. virens*, *T. asperellum*, *T. atroviride* and more. These



species are fast growing under an optimum range between 25-20°C and can use a variety of compounds as C and N source. *Trichoderma* spp. act as biocontrol agents against different phytopathogens either by indirect or direct mechanisms. An indirect mechanism comprises of competing for space, nutrients, plant growth promotion, antibiosis produce cell wall degrading enzymes, bioactive compounds in addition to secondary metabolites. The

essential feature required for an effective function of any biocontrol agent is its potential to survive in a variety of environmental conditions and its ability to colonize plant roots to control plant pathogens. In spite of enormous scientific



research on biological control of plant pathogens with *Trichoderma* spp., the most effective species against wide range of pathogens yet remains to be identified.

Popularization of biopesticides is very slow as compared to chemicals and only 2% biopesticides are available. Among the different biopesticides, *Trichoderma* is most exploited and have many success stories. *Trichoderma viride* and *Trichoderma harzianum* have carved a niche for themselves in India as important biocontrol agents for management of various diseases. A number of successful products based on different species of *Trichoderma* have been commercialized in India.

Session IV (16:00 to 17:30)



7. Prof. Biswadeep Das, of Department of Life Sciences and Biotechnology, Jadavpur University, Kolkata, West Bengal, spoke on 'The RNA World'.

He began with a brief introduction to the structure of DNA and RNA. He explained how pH affects the H-bonding in DNA and how RNA has the intrinsic property to form internal loops, hairpin loops, and bulges i.e. secondary structures. Additionally it may also undergo folding back onto itself to form tetraloops or pseudoknots by stacking interactions. Also RNA may exhibit an unusual interaction called as U.A.U base triple. Such structures make RNA quite different from DNA in terms of being structurally very dynamic as against the monotonous DNA. RNA structures play a significant role in a variety of cellular functions. A hairpin loop structure formed upstream of *prfA* gene affects the transcription or gene expression of the gene which in turn is related to producing a virulence response. RNA can also form Riboswitches i.e. two alternating forms of the RNA secondary structure – one based on pseudoknot and the other a base triple. A classic example of these riboswitches is the leader sequence in a Tryptophan operon. Therefore RNA is structurally very versatile. Initially, around a century back, it was considered to be merely a passive carrier of genetic information.

Day 3

Session I (10.30-12.00)



8. Prof. Biswadeep Das, of Department of Life Sciences and Biotechnology, Jadavpur University, Kolkata, West Bengal, spoke on the topic '**Killing Messengers before they are Born: A New Paradigm of Gene Regulations**'.

Sir has described in detail about the nuclear exosomes and C-text. Sir has also elaborated that how the targeted decay of specific mRNA in the nucleus is responsible for the telomere length; how the preferential degradation of mRNA creates new paradigm and regulation of gene expression.

Session II (12.15-13.45)



9. Dr. Meetu Gupta of Ecotoxicogenomics Lab, Department of Biotechnology, Jamia Millia Islamia University, New Delhi, delivered lecture on the topic '**Way Out of the Obnoxious Web of Arsenic Stress for Rice**'.

In her lecture Madam emphasized mainly on the toxicity of arsenic that how the arsenic does affects neuronal system of the plants. Madam Gupta has also explained in detail that how the arsenic does reacts with plants along with the description of molecular reaction of arsenic and its behavior with plants. She also discussed about the role of time and sequence on stress mainly with rice plant; How does the nitrogen signaling pathway affects the rice plants; and most importantly she describes the process for identification of those genes and synthesis of mRNA such that plants with arsenic resistant properties can be grown. Madam's lecture was very succinct and important.

Session III (14:15 to 15:45)



10. Dr. Tanushree Banerjee (Department of Biotechnology Research Laboratory, Dr. D. Y. Patil Biotechnology and Bioinformatics Institute Dr. D. Y. Patil Vidyapeeth, Tathawade, Pune, Maharashtra) talk on the topic entitled 'Design Thinking and Innovation'.

For economic development and mitigating the challenges faced by the humanity, it is crucial to promote the culture of critical thinking and innovation in the country. Government of India is taking various initiatives to promote a start-up economy and critical thinking culture in India through establishment of 'Institute Innovation Council' under 'Ministry of Education (MoE)' for motivating the young minds towards innovation

Government is establishing institution and team of specialist to mentoring young minds to understand how to identify a significant problem A number of scheme like Promoting Innovations in Individuals, Start-ups and MSMEs (PRISM) SERB Distinguished Investigator Award (SERB-DIA) scheme TARE (Teacher Associates for Research Excellence) Mobility Scheme for early identification and empowerment of exceptional scientists, researchers MANAK (Million Minds Augmenting National Aspiration and Knowledge), Design Innovation Centre (DIC) are available and facilitates its partners to forge mutually beneficial linkages to initiate and assist innovation activities and act as a catalyst and facilitator for Innovation in the country. Its primary objective is to create an ecosystem that connects and facilitates various stakeholders on all aspects of the innovation process including training and support. By promoting innovation, channeling various incentives that benefit the cluster, DIC acts as an incubating body managing the growth of innovation in this ecosystem.

Session IV (16:00 to 17:30)



11. Prof. Harsh Bais of Department of Plant and Soil Sciences University of Delaware, 311 AP Biopharma 590 Avenue 1743, Lab 357, Newyork, DE 19713, USA, spoke on 'The Role of Benign Root Microbiome in Plant Defense and Health'.

With increase in population day by day the world is facing challenge for production of food for human population. Climate change and emergence of Pesticide Resistance is making it harder .Genetically modified crops could be a solution but ethical issue, cost and suspected danger makes it not a preferential choice. Prof Bias research group is trying to study plant microbiome, and its effect of plant health and defence against pathogen.

The rhizospheric microbiome consists of good bacteria which may help plant to tolerate abiotic stress, nutrient acquisition, protection against pathogen and help in immune response. On other side Bad one the Plant pathogens are infectious agents that make plants sick and causes 10-30% annual yield loss. Upto 25% of plant genes respond to pathogen infection the arms race between plant and pathogens drives diversity in defence and pathogenicity.

Day 4

Session I (10.30-12.00)



12. Dr. Shailza Singh of National Centre For Cell Science, NCCS Complex, Ganeshkhind, Pune, Maharashtra, spoke on the topic entitled 'System Driven Synthetic Machines for Therapeutics in Infection Model (Part-I)'.

She began by an introduction to systems and synthetic biology of infectious disease Leishmaniasis wherein, her group tries to integrate the action of regulatory circuits.

She explained system biology is the computational and mathematical modeling of biological systems. It provides a holistic view of different interconnecting pathway involved in biological processes. Analysis of various networks simultaneously will help in finding out target that can be modified synthetically to achieve therapeutic effects.

She explained immunobiology of Leishmaniasis and explained about Work Flow. And phylogenetic Analysis. She explained about phenotype responses. She told about role of IL-6 in macrophage polarization that IL-6 induces anti-inflammatory responses in the absence of SOCS3 in macrophages.

Session II (12.15-13.45)



13. Prof. A.S. Raghavendra of School of Life Sciences, Department of Plant Science, University of Hyderabad, Hyderabad, Andhra Pradesh, delivered lecture on 'How Plants Respond to Biotic or Abiotic Stress: The Guard Cells Sense Water Stress and Pathogen Attack to Induce Stomatal Closure'.

He started with his presentation on how stomatal guard cells sense and transducer the hormonal signal of abscisic acid. He described how stomata guard plants and how guard cells and turgor pressure works and the role of abscisic acid.

He explained about guard cells which are good model system to study the signal transduction pathway in plants as they respond to range of environment stimuli. He explained how stomata open as the turgor of guard cells increases and explained about the role of calcium, potassium and turgor. He explained stomatal aperture is regulated by controlling K^+ concentration in the guard cells and Abscisic acid can invoke this stomatal closure in addition to blue light. He also explained how ABA is or MJ (signal) is sensed by the cell and the final effect is manifested or the message is transduced.

Session III (14:15 to 15:45) & Session IV (16:00 to 17:30)

Micro Teaching



14. Dr. Arvind Agrawal of HRDC Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, evaluated the Microteaching Activity of the participants.

The first micro teaching session of this refresher course started as per the instructions of Dr. K.K. Sahu Sir (Course coordinator). Evaluation of micro teaching was done by Dr. Arvind Agrawal of HRDC Pt. Ravishankar Shukla University, Raipur. Micro teaching started with Dr. Arpita's presentation. Presentation details of all the participants are as follows;

No.	NAME	TOPIC
01.	Ms Reenu Verma	Taxis behavior
02.	Dr. Arpita Rakshit	Plasmid
03.	Mr. Omprakash Maravi	Phyllotaxy
04.	Dr. Kritika Jyoti Namdev	Lichen
05.	Mrs. Rajeshwari Verma	Oogenesis in animal
06.	Dr. Alka Ekka	Recombinant DNA
07.	Mr. Manoj Kumar	Plant tissues
08.	Dr. Shomendra Singh	Economic importance of fish
09.	Dr. Renu Sholanki	Antigen and Antibody interaction
10.	Dr. Shailly Anand	Restriction Enzyme
11.	Dr. Swetlana Nagal	Glycolysis
12.	Mr. Rajiv Panigrahi	Mycorrhiza
13.	Dr. Tuneer Khelkar	Nucleotide

Day 5

Session I (10.30-12.00)



15. Dr. Shailza Singh (National Centre For Cell Science, NCCS Complex, Ganeshkhind, Pune, Maharashtra) spoke on the topic entitled '**System Driven Synthetic Machines for Therapeutics in Infection Model (Part-II)**'.

She began by an introduction on system driven synthetic machines for therapeutics in infection model. She has given information about biological complexity, computers for exploration and experiments for conformation. Knowledge about data science which is an interdisciplinary subject that uses scientific techniques, procedures, algorithm and systems to extract information was very useful.

She explained about identification of aptamer like sequences in Lesmanial transcriptome to construct a regulatory switch. Aptamers are small RNA/ DNA elements which can form the specific secondary and tertiary structures and can bind to specific proteins. In modern research these are used for achieving a specific activity as they have high specificity and lesser in size. For gene regulation these aptamers can act like a riboswitches upon binding to a specific small molecule metabolite.

Session II (12.15-13.45) & Session III (14:15 to 15:45)

Micro Teaching



16. Dr. Arvind Agrawal of HRDC Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, evaluated the Microteaching Activity of the participants.

The first micro teaching session of this refresher course started as per the instructions of Dr. K.K. Sahu Sir (Course coordinator). Evaluation of micro teaching was done by Dr. Arvind Agrawal of HRDC Pt. Ravishankar Shukla University, Raipur. Presentation details of all the participants are as follows;

Sr.No.	NAME	TOPIC
14.	Dr. Chancha Chaturvedi	Plant adaptation
15.	Ms Vinita Sahu	Transgenic plants
16.	Dr. Shweta Agniwanshi	Transgenic animal
17.	Mr Atul Trivedi	Threats of environment
18.	Ms Priya Dewangan	Data deficient
19.	Ms Uma Gupta	Human blood
20.	Ms Archana Masram	Vaccine
21.	Dr Bhupendra Kumar	Mimicry and protective coloration
22.	Ms Pallavi Sinha	Data deficient
23.	Dr Ajit Singh	Inter cellular chemical communication
24.	Ms Swati Tiwari	Data deficient
25.	Ms Indu Soni	Plant tissue

Session IV (16:00 to 17:30)



17. Dr. Dipankar Chakraborti of Department of Genetics from University of Calcutta, Kolkata, West Bengal, delivered lecture on the topic entitled '**Biotechnological Approaches for Development of Biotic Stress Tolerance in Pigeon pea**'.

He enlightened that how plant genetic engineering recently developed transgenic insect resistance plants for us they are easily integrated with conventional crop. His study will be contributed to biotechnological improvement of pigeon pea for biotic stress. A very interesting conversation we all had with Dr. Chakraborti after his lecture he answered our all queries with lots of passion and in very elaborated

Day 6

Session I (10.30-12.00)



18. Prof. Madan Mohan Chaturvedi of **Laboratory for Chromatin Biology, Department of Zoology, University of Delhi, New Delhi**, spoke on the topic entitled '**Regulation of Gene Expression: Linkage Between Metabolism and Epigenetics**'.

He discussed on the histones, chromatin and epigenetic codes. He initially emphasized on the lac operon model, its structure and regulation. Thereafter he gave emphasis on the epigenetic modifications of histones, like linkage and metabolism. He explained the structure of core histone proteins, which consist of a globular domain and an unstructured N- or C-terminus tail. The latter are the frequent sites for diverse posttranslational modifications, and primarily act as docking sites for binding of chromatin interacting machineries. In addition, the unstructured N- or C-terminus tails form the basis of a code called as histone code; and along with DNA methylation, the unstructured tails form the basis of epigenetic inheritance.

Prof. Chaturvedi further added that there are evidences that explain that enzymes histone acetyl transferases, histone methyl transferases, and histone kinases fall into the class of “*writers*” of “*epigenetic marks*” that regulate the expression of genes. There are also the “*readers*” of the epigenetic marks, which include the proteins that contain the chromo-domains and the bromo-domains. Moreover, there are the “*erasers*” to remove the epigenetic marks that include the enzymes Histone deacetylases (HDACs) and histone demethylases. The molecules required as cofactors for all such modifications are ATP, Acetyl CoA, and S-adenosyl methionine. These cofactors are the intermediate products of different metabolic pathways, viz. Krebs cycle, oxidative phosphorylation, and amino acid metabolism. Enzymes that erase the *epigenetic marks* also use other cofactors derived from the metabolic pathways. These are NAD for Sir2 family of HDACs, FAD for LSD1 histone demethylase, and F₂⁺ and alpha-ketoglutarate for JMjC-domain containing histone and DNA demethylases. Thus, different metabolites that directly attach to the histone proteins in chromatin are actually the regulators of gene expression.

Session II (12.15-13.45)



19. Prof. Pradipta K. Mohapatra of Department of Botany, Ravenshaw University, Cuttack, Odisha, spoke on the topic entitled '**Evolution of Z-Scheme: A Visit Through the History**'.

Giving emphasis on the photosynthesis, Prof. Mohapatra told that photosynthesis is an extremely complex process, which is carried out by plants, algae and cyanobacteria. Many scientists contributed a lot in the past to enrich our basic understanding of the complex life-sustaining process of photosynthesis. Photosynthetic pigments have different absorption and emission maxima. In 1932, the work of Emerson and Arnold gave the concept of photosystems. The experiment opened the concept of coordinated action of chlorophylls to generate electron. In 1957, the classical Emerson's Red drop and enhancement effect came into existence. The enhancement effect was different in different photosynthetic organisms, and was determined by the accessory pigments. Bessel Kok discovered P700 (reaction centre of PS-I) in 1956-57, and in 1959 he showed the two-light effect. However, his experiments of 1957 failed to explain the existence of two photosystems. Later on, in 1962 the two photosystems were discovered by Dawson.

Session III (14:15 to 15:45)



20. Dr. Shashi Kumar Rhode (Metabolic Engineering (Biofuels and Industrial Biotechnology) International Centre for Genetic Engineering and Biotechnology, New Delhi) delivered lecture on the topic '**Synthetic Biology of Photosynthetic Organisms to Produce Value Added Products**'.

The talk started with how Dr Rhode's lab using RNAi approach silenced the barrier gene of algal cell wall so that it can sustain life in more than 10% CO₂. Carbon fixation is a limiting factor in algae and Rubisco has low affinity for CO₂. To

overcome these problems Dr Rhode's lab introduced CO₂ fixing LCIA and LCIB transporters which enhances biomass and lipid productivity in these algae. Further, Dr Rhode's group is also working to produce artemisinin in edible plants that can be used in the treatment of malaria by oral delivery because human digestive enzymes are incapable of breaking down glycosidic bond in plant cell wall. The overall aim of the work done in Dr. Rhodes lab is to produce cost effective drugs (artemisinin production in edible plant) using synthetic biology approach.

Session IV (16:00 to 17:30)



21. Dr. Anagh A Sahasrabuddhe of Department of Pathology University of Michigan, Ann Arbor MI 48109, USA, spoke on 'Rational Designing of Bifunctional Protein Degradation Drugs'.

Dr. Sahasrabuddhe started his talk by explaining the role of ubiquitin-mediated control of protein degradation. Ubiquitin ligase synthesizes polyubiquitin chains on target proteins that ultimately are degraded in proteasome. Further, Dr. Sahasrabuddhe talked about proteolysis-targeting chimeras (PROTAC) drugs where small molecules are designed that contain groups that bind to ubiquitin ligase at one end and target protein at the other end. He also talked about the challenges for PROTAC discovery like sometimes ternary complex is formed but target protein does not get ubiquitinated or ubiquitination is done at the wrong site. Dr. Sahasrabuddhe further talked about the PROTAC drugs which are in clinical trial such as Androgen receptor degrader which is in 2nd phase of trial. The talk was concluded with the future requirements for more efficient PROTACs like finding out novel mechanism that can increase the scope and can reduce resistance potential.

Day 7

Session I (10.30-12.00)



22. Prof. Ena Ray Banerjee of Immunology and Regenerative Medicine Research Laboratory, Department of Zoology, University of Calcutta, Kolkata, West Bengal, spoke on the topic entitled '**Functional Food and Immunity**'.

In her talk she talked about functional component present in various natural products including plants as well as animal sources. The efficacy of herbal and conventional medicines was also compared in terms of cost, side effects, mode of action and healing properties. Prof. Banerjee also emphasized on the bioactive component present in various plants and different plants part. She discussed about the bio active component present in rice (Gamma oryzanol), maize (maysin), soy (isoflavones), ficus (flavonoids, anthocyanin and coumarins), barley (dietary fibers, β glucan) etc and also their benefits. She also summarized the role of active components of animal origin such as amino acids, omega-3, omega-6, vitamins and minerals obtained from fishes. The session was completed by brief discussion in which Prof. Banerjee answered the queries raised by different participants.

Session II (12.15-13.45)



23. Prof. Mirza Hasanuzzaman of Department of Agronomy, Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh, spoke on '**Biostimulants for Enhancing Plant Abiotic Stress Tolerance**'.

In his lecture Prof. Mirza talked that biostimulants are a group of substances or microorganisms, whose have a positive impact to enhance plant growth, availability of nutrient, and improvement of stress tolerance in crop plants. He also talked about the origin of biostimulants and told

that most of biostimulants are exogenous compound(s) or microorganisms, which can be applied in plant or root zone (rhizosphere) to improve nutrient uptake, plant growth, crop quality and abiotic stress tolerance. Biostimulants such as humic and fulvic acids, seaweed extracts, protein hydrolysates; mixture of oligopeptides, polypeptides and amino acids, N-containing compounds; glycine betaines, polyamines, and non-protein amino acids, chitosan, inorganic compounds; trace elements (selenium, Se; and silicon, Si), beneficial fungi; mycorrhizal fungi and Trichoderma, and beneficial bacteria; plant growth-promoting rhizobacteria (PGPR) are currently in use for crop production. He showed the various results where biostimulants not only resulted in better plant growth and development but also provided better tolerance to various stresses. Prof. Mirza concluded his lecture by emphasizing that biostimulants could be an excellent and viable alternative, which are capable to enhance the growth of plants, improve the nutrient uptake, increase tolerance to biotic and abiotic stresses, and expand crop quality traits along with a good yield.

Session III (14.15-15.45) & Session IV (16:00 to 17:30)



24. Dr. Mitashree Mitra of School of Studies in Anthropology, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, was there to evaluate Seminar Presentation of the participants.

In this session, seminars of 15 participants were held out of which of the topics were Aquatic Mammals; Biosensors; Parasite fauna of fresh water; Fishes of Manipur and Assam; Flight Adaptation, *etc.* After observing the seminars by Prof Mitra, participants were given proper guidance and suggestions.

Day 8

Session I (10.30-12.00)

25. Dr. Manoj Prasad of **National Institute of Plant Genome Research, Aruna Asaf Ali Marg, New Delhi**, spoke on '**Feeding the Ten Billion: A Genomics Perspective**'.



He began with the food and nutritional values of crops for ensuring the basic needs of the growing population which is going to be a challenging task as human population is racing towards 10 billion by the year 2050. He also explained the effects of climate change that decrease in total arable land, and reduction in yields as biotic and abiotic factors pose a significant threat to agriculture. He had also narrated that biotechnology holds the key to expedite the genetic improvement process of existing crops. He mentioned the advancement and improvement of genomics technologies in the recent years that has improved the precision of crop yield. He also explained the Next-generation sequencing, coupled with structural and functional genomics that has assisted in decoding complex genomes, and identification of precise targets for genetic manipulation. He had described different functional genomics approaches, including over-expression, knock-out, knock-down, gene- and genome-editing, the notable outcomes of genomics-enabled crop improvement projects like Bt cotton, Bt brinjal, FlavrSavr tomato, Golden Rice, etc. He mentioned the progress to develop climate-resilient and high-yielding crops for release to the farmers.

Session II (12.15-13.45)

26. Prof. Rizwan Hasan Khan of **Interdisciplinary Biotechnology Unit, Aligarh Muslim University, Aligarh, Uttar Pradesh**, delivered lecture on '**Journey of Amyloid Induction to Inhibition**'.



He began with the deposition of Amyloid, fibrous, extracellular, highly organized cross-beta sheet protein, in different organs and tissues and that causes variety of disorders such as Alzheimer's

and Parkinson's disease. He also explained that electrostatic interactions play a key role in amyloid formation, discovered by his research team. He briefly discovered the protein aggregation, induced by sodium dodecyl sulphate (SDS), an anionic surfactant that mimics several features of biological membranes; the helical propensity that increases as TFE and HFIP concentrations rise; the creation of a structured intermediate state that precedes the commencement of the aggregation process, according to evidence from far-UV circular dichroism, intrinsic fluorescence, ANS, and ThT fluorescence; the interactions and interplay between the rosin surfactant QRMAE and albumins in the initial electrostatic and subsequent hydrophobic contacts, which play a key role in the creation of hydrophobic interactions-driven amorphous aggregate. He explained the effects of various vitamins such as A, B12, C, K in therapeutics of neurodegenerative disease and he also elaborately described the effects of Vitamin K3 and B1 against amyloid-induced neurotoxicity to generate nontoxic aggregates. He also described the effect of tannic acid, warfarin, cysteine as a amyloid inhibitor of model proteins and the use of Capromycin, Thionamide antibiotics, L-Dopa (an anti-parkinson drug) to have anti-aggregation property. He mentioned the effect of two novel designed pentapeptides on amyloid growth of human insulin using combined biophysical, microscopic, cell viability and computational approaches. He had also described the mechanism of interaction of cholic acid (CA), a primary bile acid, with human insulin and A β -42 and found CA to be effective in inhibiting amyloid formation; gallic acid, that inhibits metal-induced aggregation by chelating the metal ions in the solvent and thereby inhibiting the aggregation of human lysozyme and hence these strategies can be used to cure the neurodegenerative studies.

Session III (14.15-15.45) & Session IV(16.00-17.30)

27. Prof. Aditi Poddar of **School of Studies in Life Science, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh**, was there to evaluate Seminar Presentation of the participants.



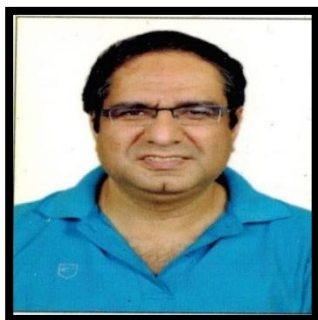
The 1st seminar was started at 2:26 pm by Dr. Chanchal Chaturvedi on the topic “Plant Diseases”. The 2nd seminar was started at 2:46 pm by Vinita Sahu on the topic “Plant

Transformation Technology Agrobacterium Mediated Gene Transfer”. The 3rd seminar was started at 3:04 pm by Dr. Shweta Agniwanshi on the topic “Estuary”. The 4th seminar was started at 3:32 pm by Mr. Atul Trivedi on the topic “Physiological Response to O₂ Deficient Stress (Hypoxia)”. The 5th seminar was started at 3:50 pm by Priya Dewangan on the topic “Food Poisoning”. The 6th seminar was started at 4:09 pm by Uma Gupta on the topic “Protein Synthesis”. The 7th seminar was started at 4:29 pm by Dr. Archana Masram on the topic “Vaccines”. The 8th seminar was started at 4:56 pm by Dr. Bhupendra Kumar on the topic “Feeding Biology of Mexican Beetles on Parthenium Weed in Different Eco Climatic Region of Nepal”. The 9th seminar was started at 5:06 pm by Dr. Pallavi Sinha on the topic “Conversion Of Biowaste to Bioenergy: A Two Stage Process of Dark Fermentative H₂ Production Followed by Methane Production”. The 10th seminar was started at 5:23 pm by Dr. Ajit Singh on the topic “Role of 14-3-3 B Protein On Ovarian Folliculogenesis Steroidogenesis and Its Correlation in the Pathogenesis of PCOS in Mice”. The 11th seminar was started at 5:38 pm by Dr. Swati Tiwari on the topic “Genetically Modified Crops”. The 12th seminar was started at 5:51 pm by Dr. Indu Soni on the topic “Mushroom Cultivation”. The 13th seminar was started at 6:05 pm by Dr. Svetlana Nagal on the topic “Microbial Interaction”.

Day 9

Session I (10.30-12.00)

28. Dr. Raman Parekh of **CSIR-IMTECH, Chandigarh**, spoke on ‘**Role of Microbes in Human Health**’.



He began by explaining that how to Microbes have made an extraordinary contribution to the pharmaceutical, health, and agriculture sector. He had also described the impact of microbes in the pharmaceutical industry and their role in human health for modern drug discovery. He concluded with the future prospects in this field.

Session II (12.15-13.45)

29. Prof. Tapan Kumar Nailwal of **Department of Biotechnology, Kumaun University, Nainital, Uttarakhand**, spoke on



‘Micropagation: The Revolutionary Technology that Saves Time, Money and Nature for Humans’.

He began with a brief introduction of Plant tissue culture techniques and also explained callus culture, organ culture, single cell culture and suspension culture methodology. He had also described the necessity of micropropagation for conservation of endangered and rare plant species and their role in biodiversity. He concluded with the future prospects in this field

Session III (14.15-15.45)

30. Prof. S.B. Virulkar of **Department of Plant Molecular Biology & Biotechnology, Indira Gandhi Agriculture University Raipur, Chhattisgarh**, delivered lecture on



‘Complexity of Character: Molecular Biology Aspects’.

He gave two examples i.e. Sickle cell Anemia and Hypertrichosis to explain that any phenotypic characters of animal/ plant/microorganisms are depends on different factors not only on the particular gene expression. We could not get authentic results through genes sequencing for phenotypic character unless we will not study the all factors that are involved. We must be take care the study of molecular biology of the system. In eukaryotic system gene expression is complex procedure. DNA transcribed into mRNA and translated in proteins and expresses themselves for those different transcriptional, translational factors, and enzymes are involved and all these factors and enzymes are the products of different genes. All these are interconnected with each other and this is the complexity of the system. If transcription factors are not express in significant amount the expression of the genes may hinder and may show different phenotypic characters.

Most of the traits of economic importance are the developmental traits and are independent on the other traits, and expresses at a system level. The characters emerge as a result of of gene regulatory networks involving nodes, edges, metabolic interactions, epigenetic interactions at different organizational level starting from within cell, tissue and higher level. The gene expression is noisy, is the variation in gene expression under seemingly uniform conditions.

Session IV(16.00-17.30)

31. Prof. S.K. Jadhav of School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, was there to assess Project Presentation of the participants.



The list of participants along with their group and presented topics are listed below:

Group No.	NAME	TITLE OF THE PRESENTATION
1.	Ms Renu Verma	Analysis of population structure of Aedes mosquito and Dengue virus serotype using complete genome from Southern parts of West Bengal, India
	Dr. Arpita Rakshit	
	Mrs. Rajeshwari Verma	
2.	Dr. M. Shomorendra Singh	Nutrient profiling of indigenous fishes of Loktak Lake in Manipur, a high altitude lake with organic funa.
	Dr. Renu Solanki	
	Dr. Shailly Anand	
3.	Dr. Shweta Singh Agniwanshi	Studies on Hematological, Hormonal and Biochemical changes in Clarias batrachus maintained in total darkness and light.
	Mr Atul Trivedi	
	Ms Priya Dewangan	
4.	Ms Uma Gupta	Evaluation of haemolymph of Parthenium beetle Zygogramma bicolorata Pallister(Coleoptera Chrysomelidae) for antimicrobial peptides
	Dr. Archana Masram	
	Dr. Bhupendra Kumar	
5.	Ms Pallavi Sinha	Studies on role of 14-3-3 proteins in the ovary of Parkes strain mice in normal and pathophysiological condition
	Dr. Ajit Singh	

Day 10

Session I (10.30-12.00)



32. Prof. Pawan Kumar Dhar of School of Biotechnology, Jawaharlal Nehru University, New Delhi, spoke on 'Synthetic Biology: Fundamental Concepts to Applications'.

He started with his presentation. He began with a brief introduction to the synthetic biology fundamental concepts to applications and explained how Reductionism has been the key scientific approach in biology. After that he explained biological engineering and rational design and controlled contribution of biological components leading to application. And described the genetic movement with compare to electric circuit movement. He also explained importance and limitation of synthetic biology and establishment problem of synthetic biology in India and what the solution can be was briefly explained. Lecture was so interesting, informative and knowledgeable. After lecture session many participants asked many questions. Prof. Dhar clearly answered the questions raised by the participants.

Session II (12.15-13.45)



33. Dr. Bhupal Govinda Shrestha of Department of Biotechnology Kathmandu University, Dhulikhel, Nepal, spoke on 'Merger of Ayurveda and Biotechnology for Study of Anticancer Activity of Medicinal Plants of Nepal'.

Initially, he introduced his country Nepal there are 7 states in Nepal so, Nepal is a geographical different area so many biodiversity are found in this area because of this many medicinal plants are found in hilly area. Then after Nepal introduction they talked tools and techniques of biotechnology like carbon dioxide incubator, Deep freezer, Centrifuge machine, Laminar air flow, shaking incubator, Vertical autoclave, hot air oven, culture media, tissue culture ware how to use these in the laboratory. Also Discussed about how

cancer is caused, types of cancer, cancer causing factors and cancer control medicine. And also discussed biotechnology techniques, southern blotting technique, northern blotting technique, immunofluorescence. Thereafter, he told about many anticancerous medicinal plants and its abstracts.

He told over 1600 species of medicinal and aromatic plants occur in Nepal, rich in rare Himalayan herbs. Most of the research involving medicinal plants is limited to taxonomical studies phytochemical screening antimicrobial activities. After discussion many participants asked many questions. He clearly answered those questions and satisfied every participant.

Session III (14.15-15.45) & Session IV (16.00-17.30)



34. Prof. Zenu Jha of Department of Plant Molecular Biology & Biotechnology, Indira Gandhi Agriculture University, Raipur, Chhattisgarh, was there to assess Project Presentation of the participants.

The list of participants along with their group and presented topics are listed below:

Group No.	NAME	TITLE OF THE PRESENTATION
6.	Mr. Omprakash Meravi	Application of positive impact of invasive plant species <i>Lantana camara</i> as antifungal activity and mosquito repellent
	Dr. Kritika Namdev	
	Mr. Manoj Kumar	
7.	Mr. Rajeev Panigrahi	Role of growth factors of <i>Tinospora carifolia</i> in lymphocyte culture
	Mr. Tuneer Khelkar	
	Dr. Chanchal Chaturvedi	
8.	Dr. Swati Tiwari	Mushroom cultivation: Nutritional, medicinal and Economic profitable value
	Dr. Indu Soni	
9.	Ms Alka Ekka	Investigating the therapeutic application of microbial Exopolysaccharide
	Ms Vinita Sahu	
	Dr. Swetlana Nagal	

Day 11

Session I (10.30-12.00)



35. Prof. T. Srinivasu of Department of Botany, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, Maharashtra, spoke on 'Authentic Identification of Medicinal Plants by nrDNA Sequencing Technique'.

He began with a brief introduction of medicinal plant and herbal drugs and cosmetics. India contributes 3500 crores to internal market. The major problem faced by industries are cheap raw material, lack of knowledge among cultivator, correct identification of herb and quality assurance therefore a system to diagnose quality and efficiency is required. Various techniques like PCR, gene sequencing, isolation of DNA and amplification of ITS nr DNA is available.

In eukaryotes two internal transcription occur 1. Small unit (18s rRNA) 2. Large (28+5.8s rRNA). DNA is generally isolated through CTAB method but it requires fresh and uninfected leaves for medicinal plant CTAB method is not prescribed due to phytochemicals like alkaloids, tannin resin etc. therefore Khanuja method is prescribed. Post isolation DNA purification is performed and is amplified using PCR (only ribosomal DNA is used). Now purified and amplified product is sent for DNA sequencing which is further used for computational analysis (chromatogram). BLAST (Basic Local Alignment Search Tool) is performed of sequence which provides information about base pair thus giving further information regarding quality and other character of plant gene.

Session II (12.15-13.45)



36. Prof. Satish Kumar Awasthi of Chemical Biology Laboratory, Department of Chemistry, Delhi University, New Delhi, spoke on 'Recent Advances in Malaria Chemotherapy'.

Malaria is a mosquito-borne infectious disease that affects humans and other animals. Malaria remains a scourge of

humanity; affecting hundreds of millions of people and causing ~440,000 deaths each year. Basic symptoms include fever, tiredness, vomiting and headaches. Generally, 10 to 15 days are required for symptoms to appear. It is caused by plasmodium group which is carried by *anopheles* mosquitoes. The bite introduces parasite to human blood and is traveled to liver where they mature and reproduce.

P. falciparum, *P. vivax*, *P. ovale*, *P. malariae* are known to cause disease in human beings while *P. knowlesi* are known to be less lethal. Blood films are general test for microscopic examination. It generally works in two lifecycles therefore till now vaccination is not available to malaria. Malaria parasites spread by successively infecting two types of hosts: female *Anopheles* mosquitoes and humans. In humans sporozoites reach human liver cells, when the liver cells rupture, the merozoites are released into the bloodstream where they rapidly invade the red blood cells. These blood-stage parasites replicate asexually – rapidly attaining a high parasite burden and destroying each red blood cell they infect, leading to the clinical symptoms of malaria.

Malaria drug discovery is a challenging and difficult task due to the unavailability of the vaccine and lack of newer drugs. The most potent artemisinin and its derivatives, widely used in combination therapies for curing malaria worldwide are also now falling to resistance in some parts of the world. Thus, to combat malaria, new drugs possessing high therapeutic value, minimal toxicity, rapid efficacy and low cost are urgently needed.

Session III (14.15-15.45)



37. Prof. Piyush Pandey of Department of Microbiology, Assam University, Silchar, Assam, delivered lecture on the topic entitled '**Plant Microbiome, its Composition and Interactions for Better Plant Health**'.

He began with the relationship between Global Food production and World Population, Target 2050. He defined Microbiome as Second genome of plants. He explained the details of plant microbiome community and its significant role in physiology and growth of plants,

plant productivity regulation, and plant health regulation in different stressed environment as well as soil health. He also described that the plant microbiomes are usually dynamic and depends on several intrinsic and extrinsic factors, such as stage of plant growth, stress, exudate, plant variety, soil type and other environmental factors. He explained Core Microbiome and Satellite Microbiome and its sustainability in the agroecosystems. He had discussed briefly that the plant microbiome is a theatre of continuous interaction between different components at metabolic, physiological, and genetic level, which has co-evolved with respective host plants. He had also mentioned the difference in the rhizosphere microbiome community from cadmium co-contaminated soil. He had also described the plant microbiome succession at phylum level and best practices for engineering microbiomes. He described the endophytic bacteria of black rice and also explained Host specific endophytic microbiome diversity and associated functions in the varieties of scented black rice at young and mature stage of plant development.

Session IV (16.00-17.30)



38. Prof R.C. Dubey of Department of Botany and Microbiology, Gurukula Kangri University, Haridwar, Uttaranchal, spoke on the topic entitled ‘**Medicinal Properties of River Ganga Water**’.

He began with the holy fact of worshipping the Nature in India and Worshipping the Sun/Rivers. He beautifully explained Nadi Stuti Shukta and also mentioned the Rivers in Rig Veda. He described that the Ganga River is the perennial river of the Indian subcontinent covering about the one fourth area of the country. River Ganga is considered as one of the most pious National Rivers of the world since the ancient time due to its self-cleansing property and has been worshiped as the Goddess Ganga. Ganga has several synonyms in *Sanskrit* literature viz., *Jāhnavi*, *Tripathgā*, *Vishnupagā*, *Devasari*, etc. Surprisingly, Ganga water does not putrefy even after long period of storage. Further, he mentioned that Ganga water has also been used for remedial purposes.

Most religious beliefs involve some ceremonial use of 'holy' water. He described that Ganga covers 2510 km and more than 30 cities are located beside Ganga. Medicinal properties of Ganga river water, antibacterial activity of Ganga river water from an unknown source, but no significant work has been done. He also explained the cause of Long queue for salvation beside Ganga in Varanasi – Manikarnika Ghat. He also mentioned the cure from different microbial as well as bacterial diseases after bath in Ganges water. He has also mentioned about different bacteriophages of Pathogenic bacteria from Ganga river water and medicinal properties of Ganga river water. He said that it is reported in different scientific journals, that the presence of Vibriophages, pathogens of Vibrio cholerae from Ganga river water from Kolkata, West Bengal, India, Salmonellatyphae Bacteriophages from Ganga river water from Haridwar, India, pneumonae phages from Ganga river water from Rishikesh, India. He also explained the cross-infectivity of Phages against pathogenic Bacteria and host specificity in pre monsoon, monsoon and post monsoon season. He explained in detail about the antimicrobial activity of compounds isolated from Ganga river water from Rishikesh, antibacterial property of compounds isolated from Ganga river water from Haridwar, India, and also described the treatment of multi drug resistant Bacteria from Ganges River.

Day 12

Session I (10.30-12.00)



39. Dr. Gopal Krishna Joshi of Department of Biotechnology, HNB Garhwal University, Srinagar, Jammu & Kashmir, spoke on 'Metagenomics: An Introduction and Recent Advances'.

He spoke about all sort of advances made in the metagenomics studies, various types of sequence search tools, sequence libraries, etc. He also provided knowledge about applications of metagenomics in various fields of biological sciences and in betterment of human population. Vote of thanks was given by one of the participants.

Session II (12.15-13.45)



40. Dr. Amit Dubey of **Intellectual Property Rights Cell, Chhattisgarh Council of Science & Technology, Raipur, Chhattisgarh**, spoke on '**Intellectual Property Rights**'.

He spoke about various kinds of IPs, innovations, process of filing patents, outcomes of getting patents, types of patents, and how his agency is helpful to a common people in filling patents. At the end, vote of thanks was given by one of the participants.

Session III (14.15-15.45)



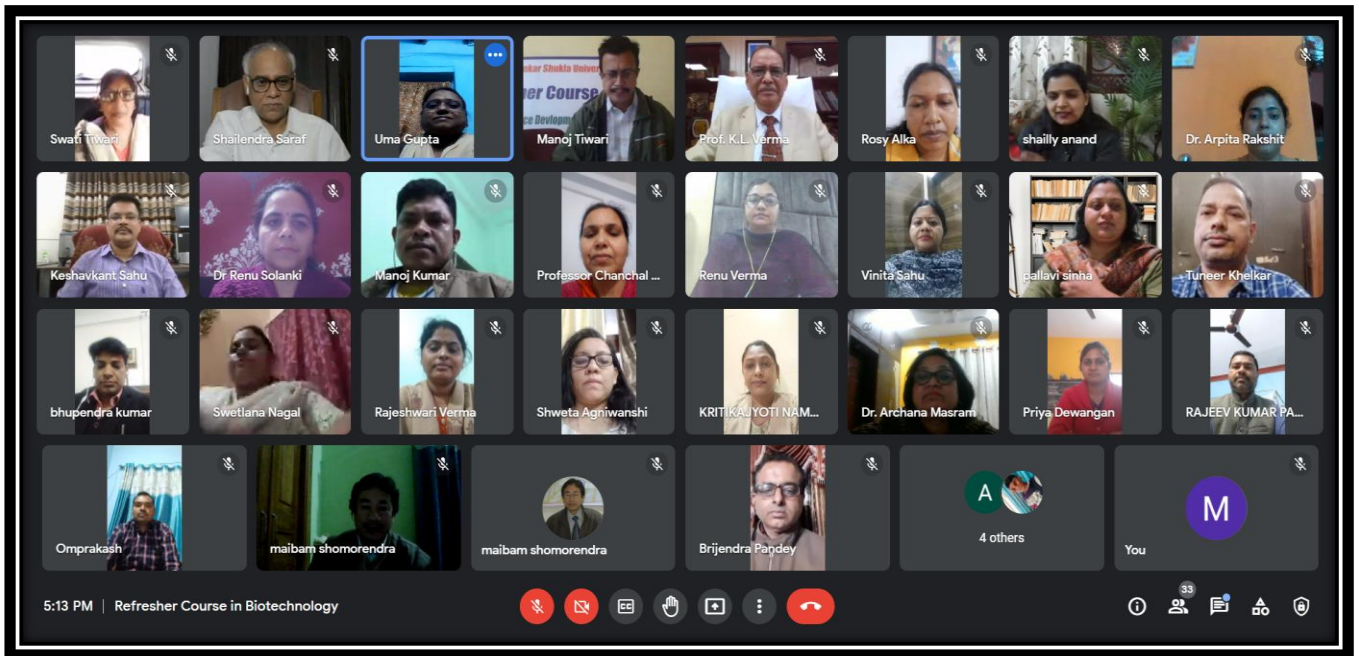
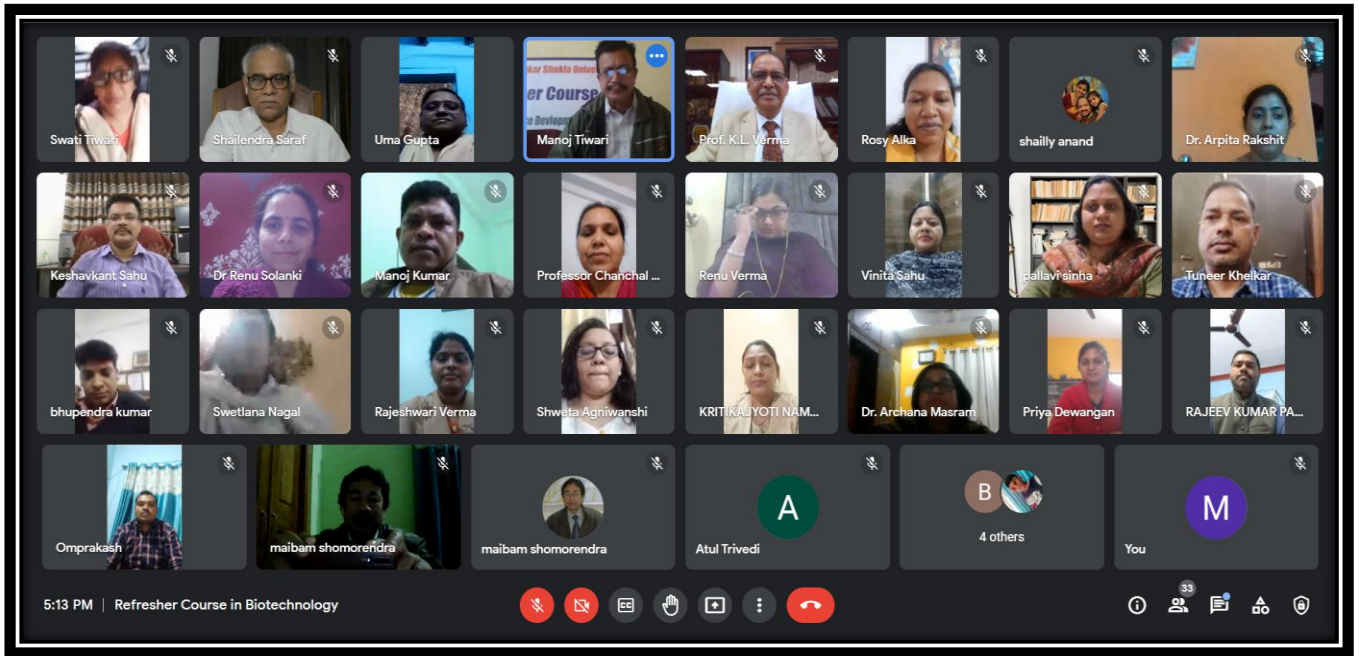
40. Dr. A.M. Deshmukh of **Department of Microbiology, Dr B A Marathwada University, Aurangabad, Maharashtra**, delivered lecture on the topic entitled '**Frontiers in Bio-fertilizers and Bio-pesticides**'.

He spoke in detailed about what exactly the biofertilizers and biopesticides are? How theses will be produced in the laboratory and in commercial scale? He also spoke about the processes of their applications in the fields. How these two are beneficial over the chemical fertilizers and pesticides were also discussed.

Session IV (16.00-17.30) - Valedictory Function

In this function, **Prof K L Verma**, Hon'ble Vice-Chancellor of Pt. Ravishankar Shukla University, Raipur, was the **Chief Guest**, **Prof Shailendra Saraf**, Director, HRDC, Pt. Ravishankar Shukla University, Raipur, was the **Chairperson**, and **Prof Keshav Kant Sahu**, Head, School of Studies in Biotechnology, Pt. Ravishankar Shukla University,

Raipur, was present as **Course Coordinator**. Initially, Prof Keshav Kant Sahu was given the overall report of this refresher course. Thereafter, opportunity was given to the participants for providing their feedback and were then shared their wonderful experiences, and some of them suggested organizing refresher course on pure subject like Microbiology also. Honorable VC Prof. K. L. Verma Sir blessed all the participants with his valuable words and congratulated all for completing online refresher course successfully. In the last, Prof Shailendra Saraf Sir was given vote of thanks to the guests and everyone for their participation.



Organizing Team



Prof. K. L. Verma
Vice Chancellor
Pt. RSU, Raipur (C.G.)



Dr. Shailendra Saraf
Director
HRDC, Pt. RSU, Raipur (C.G.)



Prof. Keshav Kant Sahu
S.o.S. in Biotechnology,
Pt. Ravishankar Shukla
University, Raipur (C.G.)



Dr. Arvind Agrawal
Assistant Professor
HRDC, Pt. Ravishankar Shukla
University, Raipur (C.G.)

Multidisciplinary Refresher Course in Biotechnology

(13-28 December 2021)

UGC-Human Resource Development Centre

Pt. Ravishankar Shukla University, Raipur 492 010, Chhattisgarh

Activity Schedule

	Time	Title/ Speaker
13.12.21 (Day – 1)	10.30-12.00	Registration; Inauguration; Induction
	12.15-13.45 (L1)	DNA the Beautiful Molecule of Life Prof Sujoy Kumar Das Gupta Department of Microbiology, Centenary Campus, Bose Institute, Kolkata Email: sujoy@icbose.ac.in
	14:15-15:45 (L2)	Designing and Production of Therapeutic Monoclonal Antibody Dr Rinkoo D Gupta Faculty of Life Sciences and Biotechnology, South Asian University, New Delhi Email: rdgupta@sau.ac.in
	16:00-17:30 (L3)	Application of NGS for Functional Genomics Study Dr Debasis Chakrabarty Biotechnology and Molecular Biology Division, CSIR-National Botanical Research Institute, Lucknow Email: debasis1972@rediffmail.com
14.12.21 (Day – 2)	10.30-12.00 (L4)	Synthetic Biology Advances: Creation of Aliens and Synthetic Life Prof Joseph Selvin Department of Microbiology, Pondicherry University, Puducherry Email: josephselvinss@gmail.com
	12.15-13.45 (L5)	The Evolving Story of CRISPR cas Prof Sujoy Kumar Das Gupta Department of Microbiology, Centenary Campus, Bose Institute, Kolkata Email: sujoy@icbose.ac.in
	14:15-15:45 (L6)	Trichoderma A Potential Biocontrol Tool/Boon for Management of Plant Pathogens Prof Anita S Patil Department of Biotechnology, SGB Amravati University, Amravati Email: anitapatil@sgbau.ac.in
	16:00-17:30 (L7)	The RNA World Prof Biswadip Das Department of Life Science and Biotechnology, Jadavpur University, Kolkata Email: biswadip_das@yahoo.com
15.12.21 (Day – 3)	10.30-12.00 (L8)	Killing Messengers Before They Are Born: A New Paradigm of Gene Regulation Prof Biswadip Das Department of Life Science and Biotechnology, Jadavpur University, Kolkata Email: biswadip_das@yahoo.com
	12.15-13.45 (L9)	Way Out of the Obnoxious Web of Arsenic Stress for Rice Dr Meetu Gupta Department of Biotechnology, Jamia Millia Islamia University, New Delhi Email: meetu_gpt@yahoo.com
	14:15-15:45 (L10)	Design Thinking and Innovation Dr Tanushree Banerjee Department of Biotechnology, Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Pune Email: tanushree.banerjee@dpu.edu.in

	16:00-17:30 (L11)	Sweet Talkers: The Role of Benign Root Microbiome in Plant Defense and Health Dr Harsh Bais Plant and Soil Science Department, University of Delaware, United States of America Email: bais@dbi.udel.edu
16.12.21 (Day – 4)	10.30-12.00 (L12)	Systems Driven Synthetic Machines for Therapeutics in Infection Model (Part-I) Dr Shailza Singh National Centre for Cell Science, NCCS Complex, Ganeshkhind, Pune Email: singhs@nccs.res.in
	12.15-13.45 (L13)	How Plants Respond to Biotic or Abiotic Stress: The Guard Cells Sense Water Stress and Pathogen Attack to Induce Stomatal Closure Prof A S Raghavendra School of Life Sciences, Department of Plant Sciences, University of Hyderabad, Hyderabad Email: as_raghavendra@yahoo.com
	14:15-15:45	Evaluation of Micro Teaching Dr Arvind Agrawal Human Resource Development Centre, Pt. Ravishankar Shukla University, Raipur Email: dr.arvind02@gmail.com
	16:00-17:30	
17.12.21 (Day – 5)	10.30-12.00 (L14)	Systems Driven Synthetic Machines for Therapeutics in Infection Model (Part-II) Dr Shailza Singh National Centre for Cell Science, NCCS Complex, Ganeshkhind, Pune Email: singhs@nccs.res.in
	12.15-13.45 (MT)	Evaluation of Micro Teaching Dr Arvind Agrawal Human Resource Development Centre, Pt. Ravishankar Shukla University, Raipur Email: dr.arvind02@gmail.com
	14:15-15:45 (MT)	
	16.00-17.30 (L15)	Biotechnological Approaches for Development of Biotic Stress Tolerance in Pigeonpea Dr Dipankar Chakraborti Department of Genetics, University of Calcutta, Kolkata Email: dipankar_12@yahoo.co.in
18.12.21	Holiday	
19.12.21	Holiday	
20.12.21 (Day – 6)	10.30-12.00 (L16)	Regulation of Gene Expression: Linkage Between Metabolism and Epigenetics Prof Madan Mohan Chaturvedi Laboratory for Chromatin Biology, Department of Zoology, University of Delhi, New Delhi Email: mchaturvedi@zoology.du.ac.in
	12.15-13.45 (L17)	Evolution of Z-Scheme: A Visit Through the History Prof P K Mohapatra Department of Botany, Ravenshaw University, Cuttack Email: pradiptamoha@yahoo.com

	14:15-15:45 (L18)	Synthetic Biology of Photosynthetic Organisms to Produce Value Added Products Dr Shashi Kumar Rhode Metabolic Engineering (Biofuels and Industrial Biotechnology), International Centre for Genetic Engineering and Biotechnology, New Delhi Email: skrhode@icgeb.res.in
	16:00-17:30 (L19)	Rational Design of Bifunctional Protein Degradable Drugs Dr Anagh Anant Sahasrabudhe University of Pennsylvania, PA, United States of America Email: anagh@penmedicine.upenn.edu
21.12.21 (Day – 7)	10.30-12.00 (L20)	Functional Food and Immunity Prof Ena Ray Banerjee Immunology and Regenerative Medicine Research Laboratory, Department of Zoology, University of Calcutta, Kolkata Email: erb@caluniv.ac.in ; enaraybanerjee@gmail.com
	12.15-13.45 (L21)	Biostimulants for Enhancing Plant Abiotic Stress Tolerance Prof Mirza Hasanuzzaman Department of Agronomy, Sher-e-Bangla Agri. University, Dhaka, Bangladesh E-mail: mhzsauag@yahoo.com
	14:15-15:45 (SM)	Evaluation of Seminar Prof Mitashree Mitra
	16.00-17.30 (SM)	School of Studies in Anthropology, Pt. Ravishankar Shukla University, Raipur Email: mitashree.mitra@gmail.com
22.12.21 (Day – 8)	10.30-12.00 (L22)	Feeding the Ten Billion: A Genomics Perspective Dr Manoj Prasad National Institute of Plant Genome Research, Aruna Asaf Ali Marg, New Delhi Email: manoj_prasad@nipgr.ac.in
	12.15-13.45 (L23)	Journey of Amyloid Induction to Inhibition Prof Rizwan Hasan Khan Interdisciplinary Biotechnology Unit, Aligarh Muslim University, Aligarh Email: rizwanhkhani@gmail.com
	14:15-15:45 (SM)	Evaluation of Seminar Prof Aditi Poddar
	16.00-17.30 (SM)	School of Studies in Life Sciences, Pt. Ravishankar Shukla University, Raipur Email: adinpod@gmail.com
23.12.21 (Day – 9)	10.30-12.00 (L24)	Role of Microbes in Human Health Dr Raman Parkesh CSIR-IMTECH, Chandigarh Email: rparkesh@imtech.res.in
	12.15-13.45 (L25)	Micropropagation: The Revolutionary Technology that Saves Time, Money and Nature for Humans Prof Tapan Kumar Nailwal Department of Biotechnology, Kumaun University, Nainital Email: tapannailwal@gmail.com
	14:15-15:45 (L26)	Complexity of characters – molecular biology aspects Prof S B Verulkar Department of Biotechnology, Indira Gandhi Agriculture University, Raipur Email: satishverulkar@gmail.com
	16:00-17:30 (PP)	Evaluation of Project Presentation Prof S K Jadhav School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur Email: shailesh9862@gmail.com

24.12.21 (Day – 10)	10.30-12.00 (L27)	Synthetic Biology: Fundamental Concepts to Applications Prof Pawan Kumar Dhar School of Biotechnology, Jawaharlal Nehru University, New Delhi Email: pawandhar@mail.jnu.ac.in
	12.15-13.45 (L28)	Merger of Ayurveda and Biotechnology for Study of Anticancer Activity of Medicinal Plants of Nepal Dr Bhupal Govinda Shrestha Department of Biotechnology, Kathmandu University, Dhulikhel, Nepal Email: bgs@ku.edu.np
	14:15-15:45 (PP)	Evaluation of Project Presentation Prof Zenu Jha Department of Biotechnology, Indira Gandhi Agriculture University, Raipur Email: jhazenu@gmail.com
	16:00-17:30 (PP/TT)	MCQ Based Test Dr Arvind Agrawal Human Resource Development Centre, Pt. Ravishankar Shukla University, Raipur Email: dr.arvind02@gmail.com
27.12.21	Holiday	
27.12.21	Holiday	
27.12.21 (Day – 11)	10.30-12.00 (L29)	Authentic Identification of Medicinal Plants by nrDNA Sequencing Technique Dr T Srinivasu Department of Botany, RTM University, Nagpur Email: dr_srinivasu_t@hotmail.com
	12.15-13.45 (L30)	Recent Advances in Malaria Chemotherapy Prof Satish Kumar Awasthi Chemical Biology Laboratory, Department of Chemistry, Delhi University, Delhi Email: satishpna@gmail.com
	14:15-15:45 (L31)	Plant Microbiomes, its Composition and Interactions for Better Plant Health Prof Piyush Pandey Department of Microbiology, Assam University, Silchar Email: piyushddn@gmail.com
	16.00-17.30 (L32)	Medicinal Properties of River Ganga Water Prof R C Dubey Department of Botany and Microbiology, Gurukula Kangri University, Haridwar Email: profrcdubey@gmail.com
28.12.21 (Day – 12)	10.30-12.00 (L33)	Metagenomics: An Introduction and Recent Advances Dr Gopal Krishna Joshi Department of Biotechnology, HNB Garhwal University, Srinagar Email: gkjoshi@rediffmail.com
	12.15-13.45 (L34)	Intellectual Property Rights Dr Amit Dubey Patent Cell, Chhattisgarh Council of Science and Technology, Raipur Email: amidubey@gmail.com
	14.15-15.45 (L35)	Frontiers in Biofertilizers and Biopesticides Dr A M Deshmukh Department of Microbiology, Dr B A Marathwada University, Aurangabad Email: amdeshmukh1@rediffmail.com
	16:00-17:30	Valedictory & Concluding Session

Time Table: Refresher Course on Biotechnology

(13/12/2021 to 28/12/2021)


Multidisciplinary Refresher Course in Biotechnology (13-28 December 2021) UGC-Human Resource Development Centre Pt. Ravishankar Shukla University, Raipur 492 010, Chhattisgarh					
Day/ Date	Session -I (10:30 to 12:00)		Session -II (12:15 to 13:45)		Session -III (14:15 to 15:45)
Day 01 (13.12.21)	Registration; Inauguration; Induction		Lecture-1 Prof Sujoy Kumar Das Gupta Dept of Microbiology Bose Institute Kolkata, West Bengal		Lecture-2 Dr Rinkoo D Gupta Faculty of Biotechnology South Asian University Chankyapuri, New Delhi
Day 02 (14.12. 21)	Lecture-4 Dr. Joseph Selvin Centre for Micro Biology School of Life Sciences Pondicherry University Puducherry	Tea Break	Lecture-5 Prof Sujoy Kumar Das Gupta Dept of Microbiology Bose Institute Kolkata, West Bengal	Lunch Break	Lecture-6 Prof. Anita S Patil Dept of Biotechnology SGB Amravati University Amravati, Maharashtra
Day 03 (15.12. 21)	Lecture-8 Prof Biswadip Das Dept of Biotechnology Jadavpur University Jadavpur, West Bengal	Tea Break	Lecture-9 Dr. Meetu Gupta Dept of Biotechnology Jamia Millia Islamia Univ. New Delhi	Tea Break	Lecture-10 Dr Tanushree Banerjee Dept of Biotechnology Dr. D. Y. Patil Biotechnology & Bioinformatics Institute Pune, Maharashtra
Day 04 (16.12. 21)	Lecture-12 Dr Shailza Singh National Centre for Cell Science SB Phule Univ. Campus Pune, Maharashtra	Tea Break	Lecture-13 Prof AS Raghavendra School of Life Sciences Department of Plant Sciences University of Hyderabad Hyderabad, Andhra Pradesh	Tea Break	Micro Teaching Dr Arvind Agrawal HRDC, PRSU Raipur
Day 05 (17.12.21)	Lecture-14 Dr Shailza Singh National Centre for Cell Science SB Phule Univ. Campus Pune, Maharashtra	Tea Break	Micro Teaching Dr Arvind Agrawal HRDC, PRSU Raipur	Tea Break	Micro Teaching Dr Arvind Agrawal HRDC, PRSU Raipur
Day 06 (20.12.21)	Lecture-16 Prof MM Chaturvedi Dept of Zoology Delhi University New Delhi	Tea Break	Lecture-17 Prof PK Mohapatra Dept of Botany Ravenshaw University Cuttack, Orissa	Tea Break	Lecture-18 Dr Shashi Kumar Rhode Microbial Engineering Integrative Biology Group International Centre for Genetic Engineering and Biotechnology New Delhi
					Lecture-3 Dr Debashish Chakrabarty Senior Scientist Biotechnology Division NBRI, Rana Pratap Marg Lucknow, Uttar Pradesh
					Lecture-7 Prof Biswadip Das Dept of Biotechnology Jadavpur University Jadavpur, West Bengal
					Lecture-11 Dr Harsh Bais Delaware Biotechnology Institute University of Delaware Newark, DE 19716, USA
					Lecture-15 Dr Dipankar Chakraborti Department of Genetics University of Calcutta Kolkata, West Bengal
					Lecture-19 Dr Anagh A. Sahasrabudde Department of Pathology University of Michigan Ann Arbor MI 48109, USA

Day/ Date	Session -I (10:30 to 12:00)	Session -II (12:15 to 13:45)	Session -III (14:15 to 15:45)	Session -IV (16:00 to 17:30)
Day 07 (21.12.21)	Lecture-20 Prof Ena Ray Banerjee Department of Zoology University of Calcutta Kolkata, West Bengal	Lecture-21 Prof Mirza Hasanuzzaman Dept of Agronomy Sher-e-Bangla Agri. University Sher-e-Bangla Nagar, Dhaka, Bangladesh	Seminar Prof Mitashree Mitra Anthropology, PRSURaipur	Seminar Prof Mitashree Mitra Anthropology, PRSURaipur
Day 08 (22.12.21)	Lecture-22 Dr Manoj Prasad Staff Scientist VII Plant Molecular Biology Unit National Institute of Plant Genome Research New Delhi	Lecture-23 Prof Rizwan Hasan Khan Interdisciplinary Biotechnology Unit Aligarh Muslim University Aligarh, Uttar Pradesh	Seminar Prof Aditi Poddar Life Sciences, PRSURaipur	Seminar Prof Aditi Poddar Life Sciences, PRSURaipur
Day 09 (23.12.21)	Lecture-24 Dr Raman Parkesh CSIR- IMTECH Chandigarh	Lecture-25 Prof Tapan Kumar Nailwal Department of Biotechnology Kumaun University Nainital, Uttarakhand	Lecture-26 Prof S B Verulkar Department of Biotechnology Indira Gandhi Agriculture University Raipur, Chhattisgarh	Project Presentation Prof SK Jadhav Biotechnology, PRSU Raipur
Day 10 (24.12.21)	Lecture-27 Prof Pawan K. Dhar School of Biotechnology Jawaharlal Nehru University New Delhi	Lecture-28 Dr Bhupal Govinda Shrestha Dept of Biotechnology Kathmandu University Dhulikhel, Nepal	Project Presentation Prof Zenu Jha Biotechnology, IGKVRaipur	Project Presentation Prof Zenu Jha Biotechnology, IGKVRaipur
Day 11 (27.12.21)	Lecture-29 Prof. T. Srinivasu Department of Botany, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	Lecture-30 Prof SK Awasthi Department of Chemistry University of Delhi New Delhi	Lecture-31 Prof Piyush Pandey Dept of Microbiology Assam University Silchar, Assam	Lecture-32 Prof RC Dubey Department of Microbiology Gurukul Kangri University Haridwar, Uttarakhand
Day 12 (28.12.20)	Lecture-33 Dr Gopal Krishna Joshi Dept of Biotechnology HNB Garhwal University Srinagar, Garhwal	Lecture-34 Dr Amit Dubey Patent Cell CGCOST Raipur, Chhattisgarh	Lecture-35 Dr AM Deshmukh Dept of Microbiology Dr. BA Marathwada University Aurangabad, Maharashtra	Valedictory & Concluding Session

(13.12.2021 to 28.12.2021)

Course Coordinator - Prof. Keshav Kant Sahu
Participants List

S. No.	Name of Participants	Email Address	Mobile Number	Photo	Name of College	Affiliated University
01.	Renu Verma	vrenu0492@gmail.com	9753670492		Dr. Khubchand Baghel Govt. P.G. College, Bhilai-3, (C.G.)	Hemchand Yadav University, Durg, (C.G.)
02.	Dr. Arpita Rakshit	arsajc17@gmail.com	8013267241		Seth Anandram Jaipuria College, Kolkata, (W.B.)	University of Calcutta, Kolkata, (W.B.)
03.	Omprakash Meravi	om000079@gmail.com	9131717715		Govt. Khemraj Laxmichand Arts Commerce and Science College, Bagbahara, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
04.	Dr. Kritika Jyoti Namdeo	kritikajyotinamdeo@gmail.com	7000642001		Govt. Kavyopadhyay Hiralal College, Abhanpur, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
05.	Mrs. Rajeshwari Verma	verma8raj@gmail.com	9300331192		Mohan Lal Jain (Mohan Bhaiya) Govt. College, Khursipar, Bhilai, Dist-Durg, (C.G.)	Hemchand Yadav University, Durg, (C.G.)
06.	Alka Ekka	alka_ekka2006@yahoo.com	9827909170		Guru Ghasidas Vishwavidyalaya, Bilaspur, (C.G.)	Guru Ghasidas Vishwavidyalaya, Bilaspur, (C.G.)
07.	Manoj Kumar	manojkumarap18@gmail.com	9479008465		Govt. Indaru Kenwat Girls College, Kanker, (C.G.)	Bastar University, Jagdalpur, (C.G.)
08.	Dr. M. Shomorendra Singh	smaibam90@gmail.com	9862490384		Thambal Marik College, Oinam, Manipur	Manipur University, Imphal, Manipur
09.	Dr. Renu Solanki	renu_slnk@ddu.ac.in	9968216861		Deen Dayal Upadhyaya College, New Delhi	University of Delhi, New Delhi
10.	Dr. Shailly Anand	shailly.anand@gmail.com	9899009214		Deen Dayal Upadhyaya College, New Delhi	University of Delhi, New Delhi
11.	Dr. Swetlana Nagal	swetlana.micro81@gmail.com	9174841484		Govt. Mata Karma Girls College, Mahasamund, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
12.	Rajeev Panigrahi	rajeevpanigrahi75@gmail.com	9424282097		Govt. Danteshwari P.G. College, Dantewada, (C.G.)	Shahid Mahendra Karma University, Bastar, Jagdalpur, (C.G.)

S. No.	Name of Participants	Email Address	Mobile Number	Photo	Name of College	Affiliated University
13.	Tuneer Khelkar	tuneerkhelkar@gmail.com	8319708102		Govt. Kaktiya P.G. College, Jagdalpur, (C.G.)	Shahid Mahendra Karma University, Bastar, Jagdalpur, (C.G.)
14.	Dr. Chanchal Chaturvedi	chanchalchaturvedi24@gmail.com	9425542001		Dr. Radhabai Govt. Navin Girls College, Raipur, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
15.	Vinita Sahu	vinita2428@gmail.com	9893357139		Govt. D.B. Girls P.G. (Autonomous) College, Raipur, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
16.	Dr. Shweta Singh Agniwanshi	shwetaagniwanshi@gmail.com	7879868669		Dr. Radhabai Govt. Navin Girls College, Raipur, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
17.	Atul Trivedi	a.t.over123@gmail.com	9453651709		Dr. Radhabai Govt. Navin Girls College, Raipur, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
18.	Priya Dewangan	Priya@dbgirls.org	9098580603		Govt. D.B. Girls P.G. (Autonomous) College, Raipur, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
19.	Uma Gupta	Uma@dbgirls.org	9826416342		Govt. D.B. Girls P.G. (Autonomous) College, Raipur, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
20.	Dr. Archana Masram	amg123321@gmail.com	8208348841		L.A.D. and Smt. R.P. College for women, Nagpur, (M.H.)	RTM Nagpur University, Nagpur, (M.H.)
21.	Dr. Bhupendra Kumar	bhupendrakumar@bhu.ac.in	8004326684		Department of Zoology, Banaras Hindu University, Varanasi, (U.P.)	Banaras Hindu University, Varanasi, (U.P.)
22.	Pallavi Sinha	pallavi.sinha10@gmail.com	9919199501		Govt. Nagarjuna P.G. College of Science, Raipur, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
23.	Ajit Singh	ajitrepro@gmail.com	7905775592		Department of Zoology, Banaras Hindu University, Varanasi, (U.P.)	Banaras Hindu University, Varanasi, (U.P.)
24.	Dr. Swati Tiwari	swati.tiwari2604@gmail.com	9827896053		Govt. Shivanth Science College, Rajnandgaon, (C.G.)	Hemchand Yadav University, Durg, (C.G.)
25.	Dr. Indu Soni	indusonibotany@gmail.com	9826188667		B.P.L. Govt. P.G. Collage, Arang, Raipur, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)

Refresher Course – Biotechnology

(13.12.2021 to 28.12.2021)

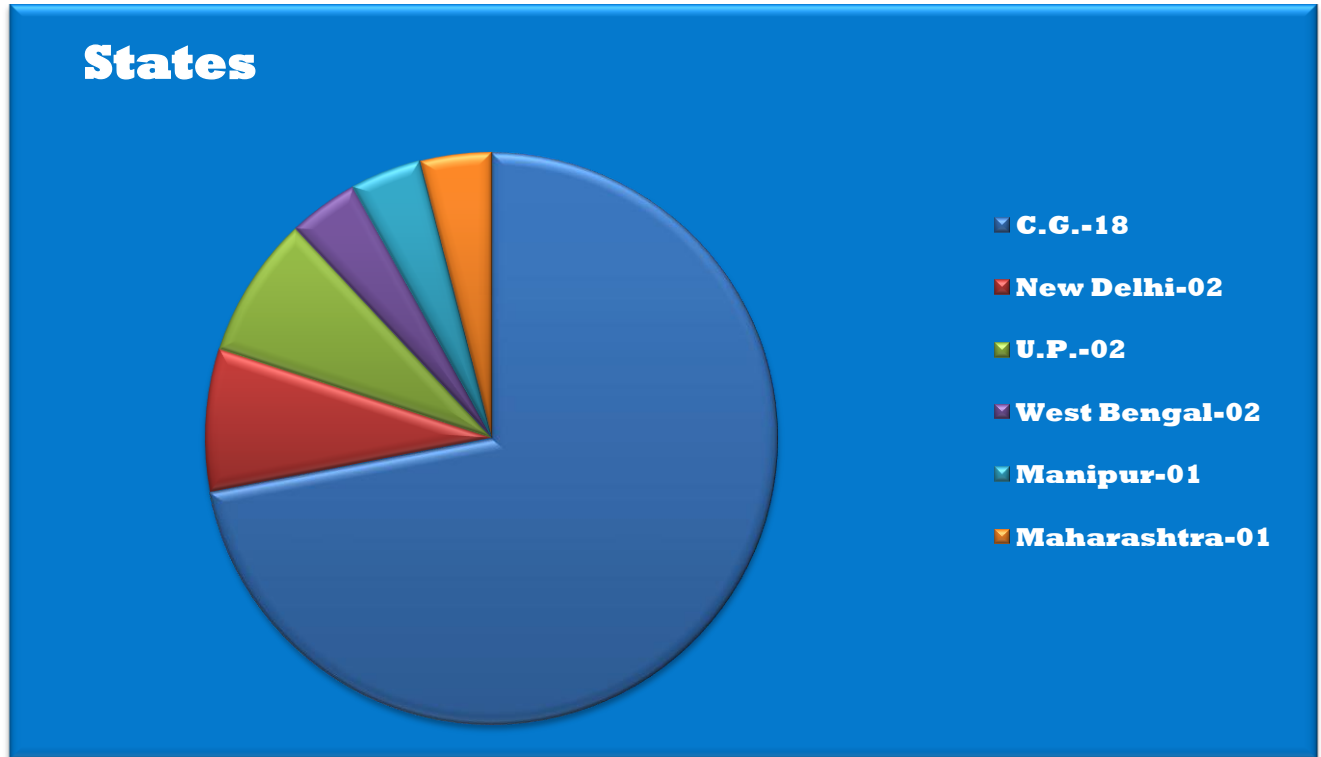
Participants List

Course Coordinator - Prof. Keshav Kant Sahu

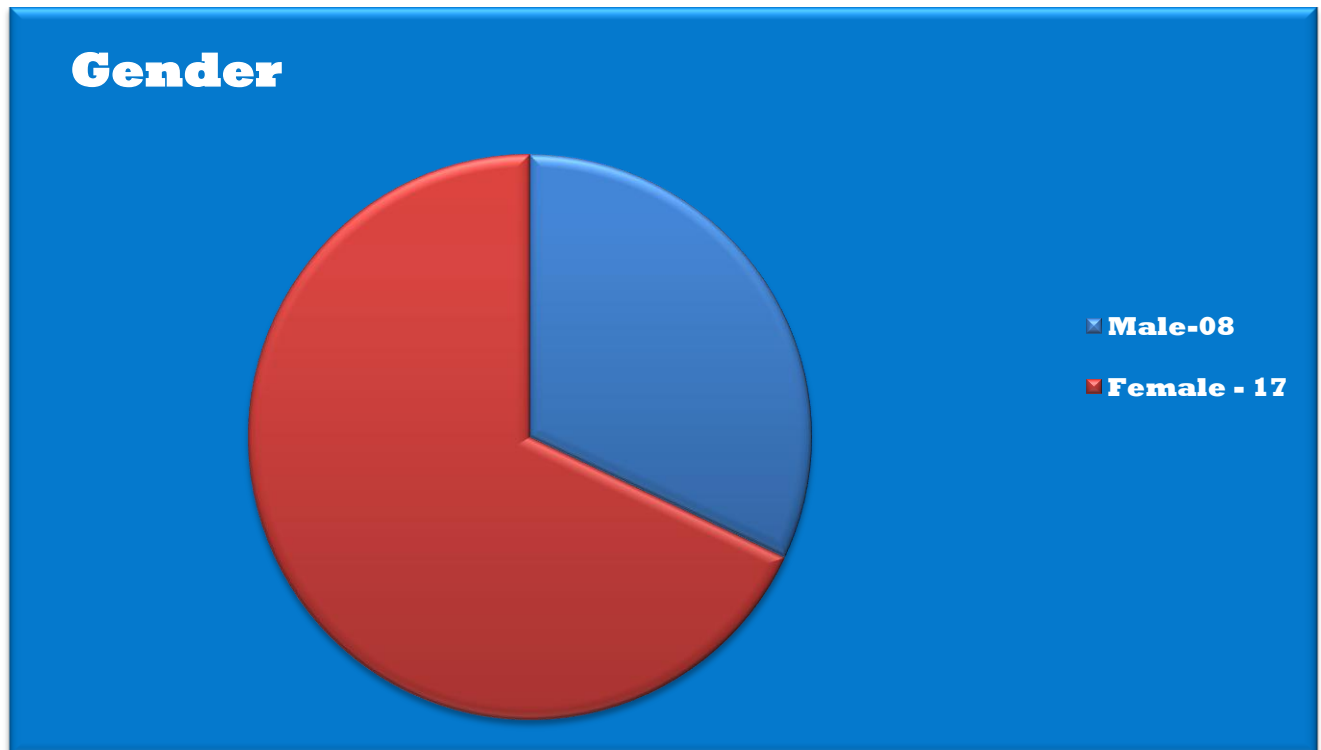
Chairperson and Reporter List

S. No.	Date	Session I and II		Session III and IV	
		Chairperson Session I (10:30 to 12:00)	Reporter Session II (12:15 to 13:45)	Chairperson Session III (14:15 to 15:45)	Reporter Session IV (16:00 to 17:30)
1	13.12.21	Renu Verma	Vinita Sahu	Rajeev Panigrahi	Dr. Renu Solanki
2	14.12.21	Dr. Arpita Rakshit	Dr. Shweta Singh Agniwanshi	Tuneer Khelkar	Dr. Shailly Anand
3	15.12.21	Omprakash Meravi	Atul Trivedi	Dr. Indu Soni	Dr. Svetlana Nagal
4	16.12.21	Dr. Kritika Jyoti Namdeo	Priya Dewangan	Dr. Arpita Rakshit	Manoj Kumar
5	17.12.21	Mrs. Rajeshwari Verma	Uma Gupta	Renu Verma	Dr. Shweta Singh Agniwanshi
6	20.12.21	Alka Ekka	Dr. Bhupendra Kumar	Dr. Chanchal Chaturvedi	Ajit Singh
7	21.12.21	Manoj Kumar	Pallavi Sinha	Vinita Sahu	Dr. Swati Tiwari
8	22.12.21	Rajeev Panigrahi	Tuneer Khelkar	Dr. Shweta Singh Agniwanshi	Mrs. Rajeshwari Verma
9	23.12.21	Dr. M. Shomorendra Singh	Dr. Chanchal Chaturvedi	Atul Trivedi	Alka Ekka
10	24.12.21	Dr. Renu Solanki	Rajeev Panigrahi	Priya Dewangan	Renu Verma
11	27.12.21	Dr. Shailly Anand	Tuneer Khelkar	Uma Gupta	Dr. Arpita Rakshit
12	28.12.21	Dr. Svetlana Nagal	Dr. Indu Soni	Dr. Archana Masram	Omprakash Meravi

State Wise Participants



Gender Wise Participants



Marks and Grading pattern

Assessment Criterion and Marking:

Multiple-choice objective tests:	30
Seminars / participant presentation:	15
Project / survey / others:	20
Micro-teaching / participation:	10
Holistic response:	25
Total:	100

Grading pattern (based on Marks)

A+ :	85 percent and above
A :	70 percent to less than or equal to 84 percent
B :	60 percent to less than or equal to 69 percent
C :	50 percent to less than or equal to 59 percent
F :	Below 49 percent

Those teacher participants who score F grade are required to repeat the program after a gap of one year without financial commitment to UGC-HRDC.

Online Delivery Platform: GOOGLE MEET



UGC Human Resource Development Centre
Pt. Ravishankar Shukla University, Raipur



Refresher Course in Mathematics

January 10 to 22, 2022

Report

Theme of Course/Program	Fundamental and Advance Topics in Mathematics
Name of the Course Coordinator	Prof. Balwant Singh Thakur Head School of Studies in Mathematics Pt. Ravishankar Shukla University, Raipur
Name of Contact person from HRDC	Dr. Arvind Agrawal Assistant Professor Human Resource Development Centre Pt. Ravishankar Shukla University, Raipur
Number of Participants	31
State wise number of participants:	Chhattisgarh-08, Gujarat-01, Jammu & Kashmir-01, Kerala-01, Maharashtra-03, Tamilnadu-06, Uttar Pradesh-01, West Bengal-10
Gender wise number of participants:	Male: 23, Female: 08
Number of Resource Persons	19
Signature of the Course Coordinator	
Online Platform	
Zoom meeting	Meeting ID: 963 9691 0852 Passcode: 256838
Google Meet	meet.google.com/jqf-wzvw-tuu

The recorded lectures of this refresher course are uploaded in the website. At present, only those lectures are available for which consent has been given by Resource Persons. As and when the consent of other Resource Persons is obtained, their recorded lectures will be made available accordingly.

Please visit:

<https://sites.google.com/mathraipur.co.in/sosmathrc2022/home>



Organizing Team



Prof. K. L. Verma
Vice Chancellor
Pt. RSU, Raipur (C.G.)



Prof. Shailendra Saraf
Director
HRDC, Pt. RSU, Raipur (C.G.)



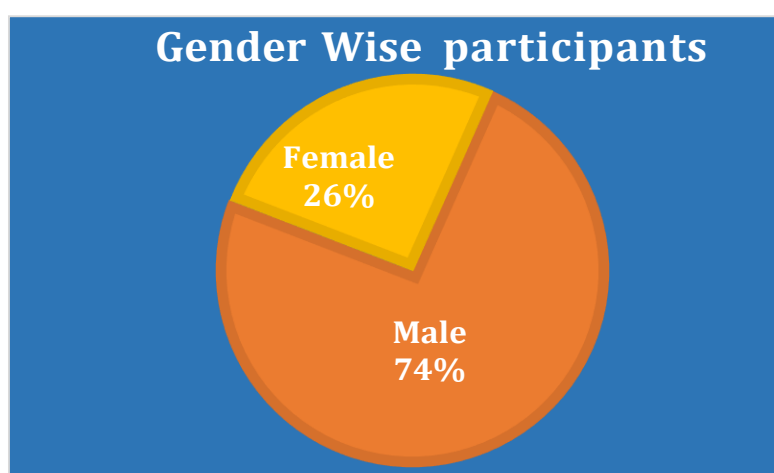
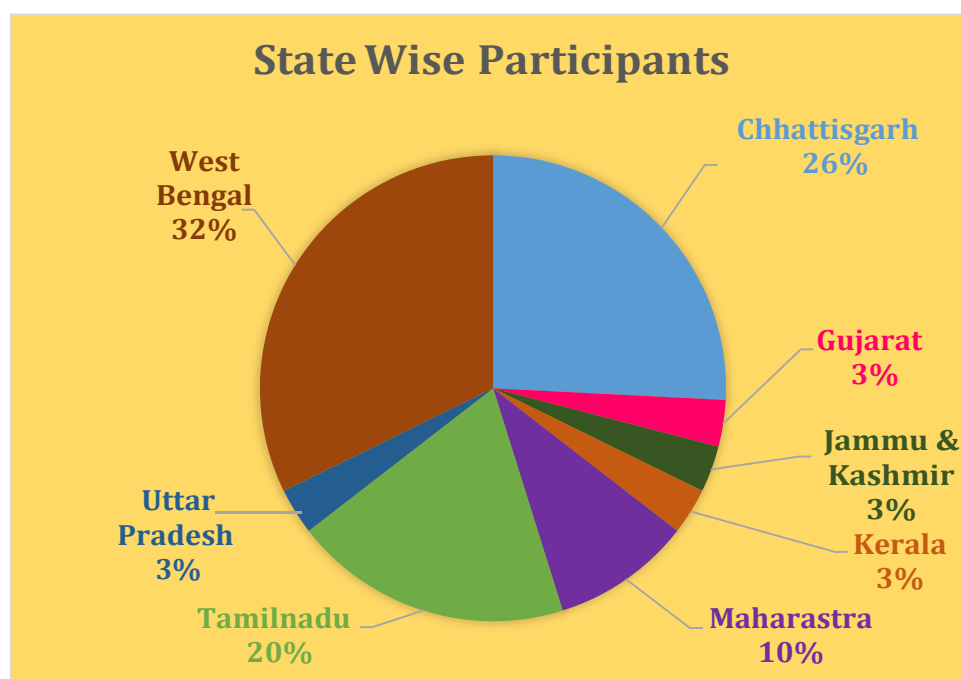
Prof. Balwant Singh Thakur
S.o.S. in Mathematics,
Pt. Ravishankar Shukla University,
Raipur (C.G.)

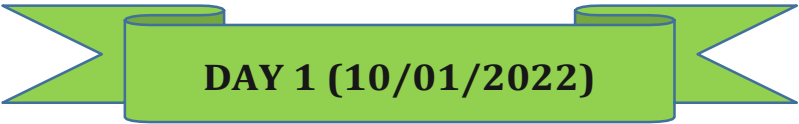


Dr. Arvind Agrawal
Assistant Professor
HRDC, Pt. RSU, Raipur (C.G.)

Refresher Course in Mathematics**(10/01/2022 - 22/01/2022)**

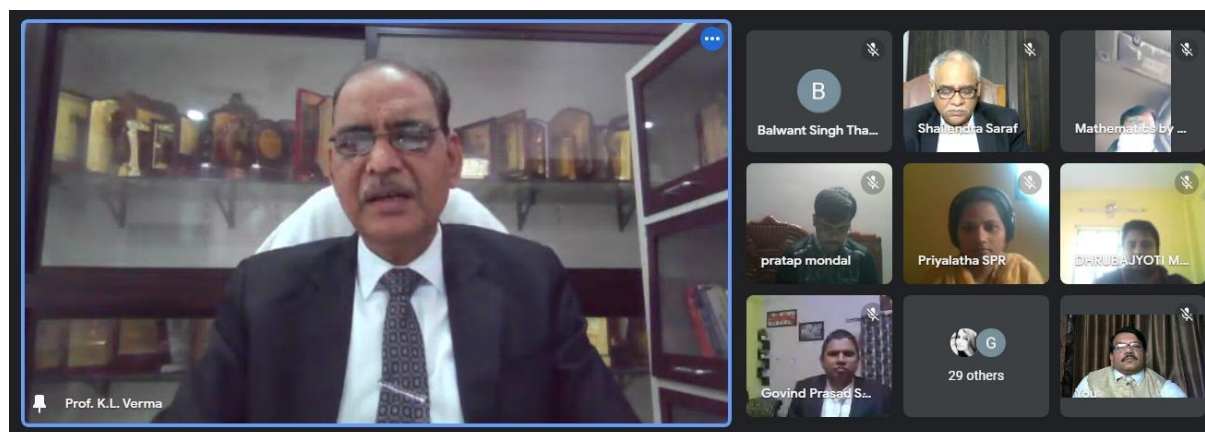
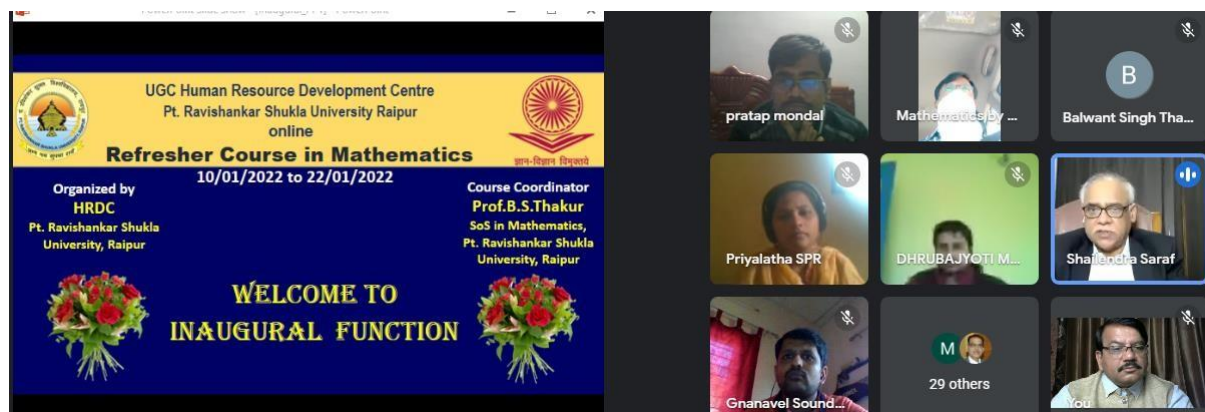
A Refresher Course in “Mathematics” was organized by Human Resource Development Centre, Pt. Ravishankar Shukla University Raipur, in collaboration with School of Studies in Mathematics, Pt. Ravishankar Shukla University, Raipur from 10th -22nd, January 2022. The course was attended by Thirty-Three registered participants from across the country. 28 outstations and 03 local participants attended the same. 19 resource persons from 12 states delivered lectures.




DAY 1 (10/01/2022)
Session I (10:30-12:00) Inaugural Function

The Program commenced on the Google Meet Platform with the Inaugural Function at 10.00 a.m. with **Chief Guest as Hon'ble Vice-Chancellor Prof. K L Verma, Pt. Ravishankar Shukla University, Raipur.** With Director - **Prof. Shailendra Saraf, Director, Human Recourse Development Center, Pt Ravishankar Shukla University, Raipur** and Course Coordinator **Prof. Balwant Singh Thakur, Head, School of Studies in Mathematics, Pt Ravishankar Shukla University, Raipur.** The Program commenced by welcoming participants and Guests by Dr. Arvind Agrawal (HRDC, Pt RSU), which was followed by brief introduction of each Participants, Introduction about the course by the Course Coordinator and Address by the Director HRDC- Pt RSU.

Inaugural Address was given by Hon'ble Vice Chancellor, who congratulated course Coordinator for having very good panel of experts across the country for the Refresher Course. Inaugural program ended with vote of thanks by Dr. Arvind Agrawal.



Session II (12:10 to 13:40)



1. Prof. Sudhir Ramakant Ghorpade of Department of Mathematics, Indian Institute of Technology, Bombay, Powai, Mumbai, spoke on the topic titled '**Spectral Theorems for Matrices-01**'.

He started talking on Linear Algebra, specially on Simple Eigen value problem along with Eigen Vector.

Then he explained extensively about matrix, linear transformation, matrix representation with respect to ordered basis, change of basis, eigen values, eigen vector, algebraic and geometric multiplicity of eigen values, diagonal matrices and related theorems. His lecture was filled with characterization of matrices where he explained algebraic multiplicity and geometric multiplicity in a very lucid manner. The session was very informative and participants actively participated in the session.

Session III (14:20 to 15:50) & Session IV (16:00 to 17:30)

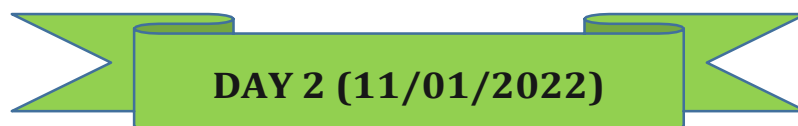


2. Prof. Kalyan Chakraborty, Director, KSCSTE- Kerala School of Mathematics, Kozhikode Kerala, delivered lectures on the **Introduction to the 'Theory of Numbers'**.

He has made details discussion by covering all aspects of this subject. At the beginning he discussed about some basic properties of the set of natural numbers which were well ordering principle, successor property, mathematical induction, etc. Then he gave a clear concept of Division algorithm, Divisibility, Prime numbers, Congruence, etc. For this lecture he stated and proved many theorems for complete understanding of the topic.

Prof.Chakroborty elaborately discussed the following subject matters of the topic, which are (i) Greatest common divisor, (ii) Euclid Algorithm, (iii) Relatively prime integers, (iv) Prime integers and related theorems, (v) Fundamental theorem of Arithmetic, (vi) Euclidean theorem, (vii) Quadratic Congruence, (viii) Congruent number, (ix) Fermats little theorem, (x) Eulers's phi function, (xi) Wilsons theorem, (xii) Chines remainder theorem, (xiii) System of congruence equation, etc.

At the last part of his lecture, Prof. Chakroborty focused on some challenging congruent number problems.



Session I (10:30 to 12:00)



3. Dr. Suparna Sen Gupta, Librarian of Pt. Sundar Lal Sharma Library, Pt. Ravishankar Shukla University, Raipur, expressed his views on the topic "E-resources".

He talked about so many e-resources for study. He explained the advantages of accessing the e-resources. He meticulously explained and demonstrated various technical details for better academic search in internet search engines. He explored the benefits of N-LIST and academic and research resources available in the N-LIST. He explained about E-Shodh Sindhu, E PG Pathashala, Sodh Ganga & Shodh Gangotri, E-Gyankosh. He explored in detailed about the National Digital Library Hosted by IIT Kharagpur and invited participants to promote it among college and university students. He also explained about Census Digital Library, scope of its usages and opportunities.

Session II (12:10 to 13:40)

4. Prof. Sudhir Ramakant Ghorpade of Department of Mathematics, Indian Institute of Technology, Bombay, Powai, Mumbai, spoke on the topic titled **“Spectral Theorems for Matrices-02”**.

He continued from the previous lecture. He explained criteria for diagonalizable of square real matrix. Gram-Schmidt Orthogonalization process was discussed. He explored unitarily similar matrices and unitarily diagonalizable matrices and related mathematical results. He then proved the Schur’s Theorem for linear map. He then explained normal matrix and gave an equivalent criterion in terms of inner product, then he gave a criterion for diagonalizability of complex matrix in terms of normal matrix. He proved the spectral theorem for normal matrices. Then, self-adjoint matrix was defined and spectral theorem for self-adjoint matrices are established. Finally, he explained spectral theorem for real symmetric matrices.

Session III (14:20 to 15:50)

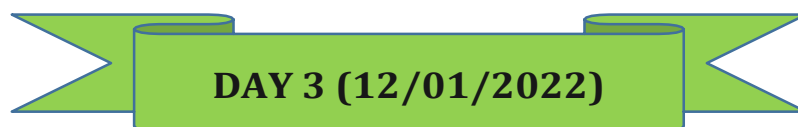
5. Prof. D.R. Sahu of Department of Mathematics, Banaras Hindu University, Varanasi, discussed about the topic **“Optimization via fixed point theory-01”**.

He started with the fundamental fixed point theorem and also explained convex optimization’s problem and its uses in various field like mechanical, electrical and computer science engineering. He discussed the various properties of inner product space, matrix space and various preliminary theorems. He covered the topic convex combination, Banach space, Opial’s condition, optimization problem, epigraph, phenomenon of convex function etc. He explained the concepts using several examples.

Session IV (16:00 to 17:30)

6. Dr. Rakesh Jana, of Department of Mathematics Indian Institute of Technology, Guwahati shed light on “**LaTeX: Basics, Mathematics & Table**”

He explained basic concept of LaTeX and how to enter overleaf LaTeX and various commands of LaTeX one by one. He delivered information about how to give title of the section and subsection. Explained the difference between in line mode and display mode with the examples. He discussed various packages and commands. He delivered how to design the table and matrix. The session was lucid and is applicable for every researcher.

**Session I (10:30 to 12:00)**

7. Prof. D.R. Sahu of Department of Mathematics, Banaras Hindu University, Varanasi, discussed about the topic “**Optimization via fixed point theory-02**”.

This was continuation of his first talk. In this talk he clearly explained various concepts such as differentiability R_∞ functions, the directional derivative of a function, Gateaux differentiable, Frechet differentiability, Hilbert Space, uniformly convexity, α - strongly convexity. He explains this in a detailed manner with basic definitions, corollary, lemma, and theorems. matrix space and various preliminary theorems. He covered the topic convex combination, Banach space, Opial’s condition, optimization problem, epigraph, phenomenon of convex function etc. He explained concepts using several examples.

Session II (12:10 to 13:40)

8. Dr. Rakesh Jana, of Department of Mathematics, Indian Institute of Technology, Guwahati shed light on “LaTeX: Figure, References and Citations, Tikz”.

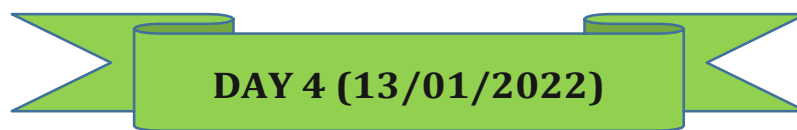
This was second lecture of Dr. Jana. He explained in detailed the coding of LaTeX. He also explained the basics of LaTeX including basic commands, document structure, running and viewing LaTeX numbering list, basic text formatting such as fonts, symbols. He also explained in the concept like: Including figures, Adding Tables, Adding basic math building blocks, equations, citing the references, and plotting the diagrams using Tikz plot.

Session III (14:20 to 15:50) & Session IV (16:00 to 17:30)

9. Prof. Sandip Banerjee of Department of Mathematics, Indian Institute of Technology, Roorkee elucidated the topic “Mathematical Modeling with MATHEMATICA”

He started his lecture on Prey-Predator equations using some interesting figures. He described their solution using proper transformation. He also analysed the Linear Stability of a Prey-Predator model and their nice mathematical graphs. After that he presented the modified Prey-Predator model. He elaborated the Stage Structure Model and SIR Model of various species. He also nicely presented SIR Model without vaccination and SIR Model with vaccination with their graphical representation. He also told us about the Mathematical Modeling of Hepatitis C Virus and their behaviour also the treatment. He also described the differential equations, mathematical model of the Interferon Monotherapy and Interferon in conjunction with Ribavirin.

In the second lecture Prof. Sandip Banerjee started by solving the difficulties to install the software MATHEMATICA 12.0 that he sent us earlier and he provided the information how we activate the software. After that he showed how to solve the numerical problems like addition, multiplication, subtraction and division using MAYHEMATICA. He constructed mathematical models on various Prey-Predator Model and their comparative solution using that software. The session was live and participants shared their problems while using the software and he resolved the problems.



Session I (10:30 to 12:00)



10. Prof. S. Ponnusamy of Department of Mathematics, Indian Institute of Technology, Madras, Chennai, simplified “**Foundations of Complex Analysis**”

Professor Ponnusamy started his lecture on some important concepts of Complex Analysis. At the beginning, he introduced the notations and symbols used in the study of Complex Analysis. Then he explained the concept of Analytic functions with several examples. He discussed about boundedness of various types of Analytic functions. Then he explained Cauchy-Riemann Equation, Laplace Equation, Zero of Analytic functions and Entire Functions very carefully. At the end, he discussed about the Schwarz Lemma and Liouville's Theorem. During the lecture, professor Ponnusamy discussed several questions and their detailed solution to clear the concepts related to various important notion of Complex Analysis..

Session II (12:10 to 13:40)

11. Prof. J. Patel of Department of Mathematics, Utkal University, Bhubaneswar, elaborated “**Metric Spaces**”.

Professor Patel started his lecture by basic definition and examples of distance functions on a set and Metric Spaces. Then he discussed about convergence of sequences in a metric space, Cauchy Sequence and its properties and Completeness of a metric space. He gave detailed proofs of necessary theorems and also provided many examples related to each of these topics. Continuity of functions between two metric spaces in terms of open set and also in terms of convergence of sequences was discussed at the end of the lecture.

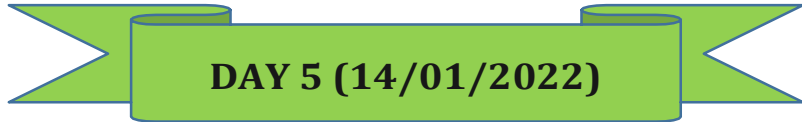
Session III (14:20 to 15:50) & Session IV (16:00 to 17:30)

12. Prof. Badam Singh Kushvah of Department of Mathematics and Compting, Indian Institute of Technology, Dhanbad discusses about “**Basics and Advanced Topics of Python**”.

He shared the literature, and development of Python and also the different version of Python. He demonstrated the working process of Python by various arithmetic operations of different types of data and Data structures. Further, he showed the usage of library functions like math, cmath etc also the functional operations and their operationality with appropriate examples.

In continuation of the basics of Python, he introduced advanced operations in Python. He exhibited various operations on sequences, passing an argument to functions, copying the object, equality and Identity,

introspection, magic names, Docstring, input-output arguments, printing options. Further, he showed how to open a file, read a file, write a file and also how to control the flow of the Python interpreter through various conditional operators IF-then-ELSE, FOR loop, While loop, etc. Also, the usage of NUMPY library for numerical calculations, matplotlib library for plotting the graphs, visualizing matrix data.



DAY 5 (14/01/2022)

Session I (10:30 to 12:00)



13. Prof. Bhaskar Mukherjee, Librarian of Department of Library and Information Science, Banaras Hindu University, Varanasi expressed his views on the topic **“Predatism in Scholarly communication process and Academic integrity”**.

He described different aspects of Plagiarism. He briefly explained ten criteria of identifying quality journals.

After that he described DOAJ inclusion policy. He elaborated the citation measurement tools & journal Impact Factor with examples. He also nicely presented how one can understand quality of a journal on his own. He also told us about SJR (Scimago Journal & Country Rank). He also described how we can determine the Impact factor of any journal. He also explained H-index, G-index and i10-index of journals with examples. Finally, he shows that how we can carry out our research by overcoming these difficulties of plagiarism.

Session II (12:10 to 13:40)

14. Dr. Sahadeo Padhye of Department of Mathematics, Motilal Nehru National Institute of Technology Allahabad, Prayagraj evaluated '**Micro Teaching Activity-01**'.

The microteaching activity of this refresher course started in this session. Presentation details of the participants in this session are as below:

S.No.	Name of the Participant	Topic
2	Mr.Sunilkumar Kuwarlal Shende	Ideal of Ring
3	Jayprakash Laxman Matlam	Simplex method
6	Surekha Dewangan	Fuzzy set theory
7	Dr. Sujoy Das	An introduction to metric spaces
8	Ramprosad Saha	Trapezoidal rule's for Numerical Integration and write C-Programme
9	Lokesh Kumar Satpathi	Relation and function
10	Dr. Dipti Thakur	Signed Measure

Session III (14:20 to 15:50)

15. Prof. Gadadhar Misra of Department of Mathematics, Banaras Hindu University, Varanasi, threw light on the topic "**Fundamental Theorem of Calculus, Green's Theorem and Poincare Lemma**".

He started his lecture by explaining about the essentials of calculus and also he explains about the two forms of Fundamental Theorem of Calculus (Differential and Integral Forms) in detailed manner and also he explained about generalisation of Fundamental Theorem of Calculus to Multivariate Functions in which an integral can be

evaluated using chain rule. Also Poincare lemma for star shaped domains were explained for several diagrams. He explained about Green's theorem and its necessary condition using Primitives and Gradient. Also Theorem on Sequence and connected sets were discussed. He clarified all the doubts raised by the participants.

Session IV (16:00 to 17:30)



16. Dr. Sahadeo Padhye of Department of Mathematics, Motilal Nehru National Institute of Technology Allahabad, Prayagraj evaluated '**Micro Teaching Activity-02**'.

This was second session on microteaching activity of this refresher course. Presentation details of the participants in this session are as below:

S.No.	Name of the Participant	Topic
11	Chandrauday Das Manikpuri	Equivalence Relation
12	Suganthi R.K.	Shortest path problem
13	Chetan Kumar Sahu	Group Theory
15	Kiran Dewangan	Logic gates
16	Aniket Avinash Muley	Introduction to R
17	Dr.Govind Prasad Sahu	Introduction to Modern Probability
18	Gnanavel Soundararajan	Metric space
19	Dr.S.P.R.Priyalatha	Topology
20	Dr.Samiran Banerjee	Sequence of functions
21	Pratap Mondal	Introduction to PDE
22	Dr.Debraj Chandra	Complexification of Real Vector Spaces
23	Dr.Dhrubajyoti Mandal	Quotient of a Vector Space

DAY 6 (15/01/2022)

Session I (10:30 to 12:00)

17. Prof. K.N.Raghavan of The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai elucidated the topic “**Introductory talks on Topology-01**”.

At the beginning of the lecture, Prof. Raghavan gave a link (<https://www.imsc.res.in/~knr/past/top15/index.html>)

for the reference of his Introductory talks on Topology. In the demonstrations, he explained topological space with examples. He also discussed neighbourhood on topological space and metric space. He also discussed continuity and compactness on topological spaces. He solved some exercises on continuity. He also described Subspace topology and product topology. His final point was to discuss the concept of Final and Initial topology.

Session II (12:10 to 13:40)

18. Prof. J. Patel of Department of Mathematics, Utkal University, Bhubaneswar elaborated “**Normed and Banach Spaces**”.

He discussed vector spaces with examples before moving to main topics. Following that, he described the normed space with examples. He compared normed linear and metric spaces during his lecture to make it more interesting. Afterward, he explored different norms for different spaces. Then he discussed linear transformation and linear functional on normed spaces and also illustrated their boundedness with examples. Defining continuity of

linear transformations, he summarized some well known results on continuity. Later, he addressed bounded linear transformation spaces. Prof. Patel explained the Hahn-Banach theorem concept with examples and discussed that the theorem's extension is not unique. At the end of his lecture, Prof. Patel discussed some of the consequences of Hahn- Banach's theorem.

Session III (14:20 to 15:50)



19. Prof. Gadadhar Misra of Department of Mathematics, Banaras Hindu University, Varanasi, threw light on the topic “**The Ahlfor's Schwarz Lemma**”.

Professor Misra started his lecture on ‘The Ahlfor’s Schwarz Lemma’. At the beginning, he stated ‘Schwarz Lemma’ and ‘Maximum Modulus Principle’, with detailed proof. Then he defined automorphism. After that he discussed about ‘Automorphism Group of the Disc’. Then he introduced ‘Riemanian Metric’ followed by a detailed discussion about ‘Gaussian Curvature’. At last, he presented the Ahlfor’s version of the Schwarz Lemma with detailed proof.

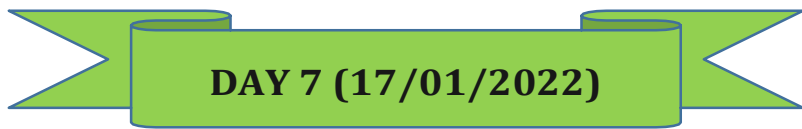
Session IV (16:00 to 17:30)



20. Dr. Sahadeo Padhye of Department of Mathematics, Motilal Nehru National Institute of Technology Allahabad, Prayagraj evaluated ‘**Micro Teaching Activity-03**’.

This was last session on microteaching activity of this refresher course. Presentation details of the participants in this session are as below:

S.No.	Name of the Participant	Topic
24	Dr.S. Jayalakshmi	Sampling Methods
25	Dr. Brojeswar Pal	Sensitivity Analysis in Linear Programming
26	Dr.M. Vigneshwaran	Normed Linear Spaces
27	Dr.D. Vijayalakshmi	Basic Concepts in Graph Theory
28	Dr. Sudipta Dutta	Cosets, Lagrange's Theorem and its Applications
29	Muthuvel K	Open Set: Continuous Functions
30	Dildar Singh Tandon	Kernel of Homomorphism
31	Pooja Rai	Integral Equations
32	Dr. Faroz Ahmad Bhat	Sylow's Theorem on Finite Groups
33	Patel Aryan Kanjibhai	Quotient Ring
34	Sarifuddin	Fixed Point Iteration Method
35	MD Meezanur Rahaman	Stable and Unstable Equilibrium



DAY 7 (17/01/2022)

Session I (10:30 to 12:00)



21. Prof. A.K.Nandakumaran of Department of Mathematics, Indian Institute of Science, Bangalore threw light on the topic "**Partial Differential Equations-01**".

At the beginning, Prof. Nandakumaran started discussing about the prerequisites for studying *PDE*. He briefly explained the notion of the *Laplace operator*. Prof. Nandakumaran then gave more general introduction to the

concepts of *solvability of the Boundary value problems (BVP)*. He considered the *Laplace equation* and presented few interesting properties of the *Laplace operator*. He started investigating whether there is a *radial solution* of the *Laplace equation*. He then brought into the concepts of *fundamental solutions* and *local integrability* and explained them with examples, which are closely related to achieve the solution of the *Laplace equation*. Prof. Nandakumaran had performed critical analysis of every terminology that he mentioned during the talk by linking the concepts from *Linear Algebra* to *Analysis* and *Multivariable Calculus* as well.

Session II (12:10 to 13:40)



22. Prof. Malay Banerjee, Department of Mathematics & Statistics, Indian Institute of Technology, Kanpur delivered the lecture on **“Introduction to compartmental models in epidemiology”**.

Prof. Banerjee concentrated on the models associated with the epidemic diseases for humans. He started talking on simple *mathematical models* which are used in *mathematical epidemiology*. He briefly discussed about the key facts that are required for construction of such *mathematical models*. Then gradually he entered into the construction of a *SIR model* (where the compartments are: *S-Susceptible, I-Infectious, R-Recovered*) by considering *ordinary differential equations*. He then explained how to estimate various *epidemiological parameters* such as *basic reproduction number, effective reproduction number* etc. for this model. Prof. Banerjee then considered the *SIRS model, SEIR model, Influenza model, SEQIJR model* and *Two-Strain epidemic model (SIR)* to predict similar such findings done for the earlier models.

Session III (14:20 to 15:50)

23. Prof. Gadadhar Misra of Department of Mathematics, Banaras Hindu University, Varanasi, threw light on the topic “**Differentiation**”.

This was Prof. Misra’s third lecture in this Refresher Course. Last day, he delivered lecture on “Ahlfor’s-Schwarz Lemma”. In this session, Prof. Misra delivered the lecture on “Differentiation” which was some sort of continuation of previous lecture. Prof. Misra started discussion considering the space of all holomorphic functions on D which are square integrable with respect to the area measure. This space is a Hilbert space. He also introduced the mathematical objects namely, the Mobius Group, Algebra etc. He briefly explained the notion of the *Multiplier Representation* U and mentioned the relation between U and the multiplier identity. Prof. Misra then gave the idea how to construct multiplier taking values, say, $n \times n$ matrices. Then he established the rule for derivation of multiplier identity.

Session IV (16:00 to 17:30)

24. Prof. D.R. Sahu of Department of Mathematics, Banaras Hindu University, Varanasi evaluated ‘**Seminar Presentation-01**’.

This was first session on Seminar Presentation activity of this refresher course. During the presentation Prof. Sahu asked question from participants on their presentation topics.

Presentation details of the participants in this session are as below:

S.No.	Name of the Participant	Topic
2	Mr.Sunilkumar Kuwarlal Shende	Rank Nullity Theorem
3	Jayprakash Laxman Matlam	Vector Spaces
6	Surekha Dewangan	Mathematical Modelling by Using ODE
7	Dr. Sujoy Das	An Introduction to Multi Metric Space
8	Dr. Ramprosad Saha	Role of Flow pulsatility and time dependent release kinetics on stent-based drug delivery from drug-eluting stent(DES) through atherosclerotic plaque in arterial tissue:A computational approach
9	Dr. Lokesh Kumar Satpathi	Ring Theory
10	Dr. Dipti Thakur	Introduction to CAT(0) Spaces
11	Chandrauday Das Manikpuri	Pell's Equation with integer solution
12	Suganthi R.K.	Numerical solution to Boundary layer problem
13	Chetan Kumar Sahu	Ramanujan: A man who knew infinity

DAY 8 (18/01/2022)

Session I (10:30 to 12:00)



25. Prof. A.K.Nandakumaran of Department of Mathematics, Indian Institute of Science, Bangalore threw light on the topic "**Partial Differential Equations-02**".

The speaker began the session by stating the importance of 'Benefit by doing exercises' and insisted the participants also to practice the same for the students. He

delivered the importance and application of Laplacian operator in partial differential equations and made us to understand the other dimension of partial differential equations.

The speaker also explained Mean value theorem and its properties. He described the strong and weak maximum principles, the concept of Greens representation formula.

Session II (12:10 to 13:40)



26. Prof. J. Patel of Department of Mathematics, Utkal University, Bhubaneswar elaborated “Banach Spaces, Dual Spaces, Uniform Bounded Principle”.

The speaker began the session by defining Banach Space followed with many examples to have a depth understanding of the concept. He explained about equivalence norms and few theorems, examples on the same. He also introduced the concept of Schauder basis and how they differ from Hamel basis of a vector space. Thus, he defined Schauder basis, following which he defined isometry, isometrically isomorphism with examples.

He explained about pointwise boundedness and uniformly boundedness and raised a question of when a family of pointwise bounded set is uniformly bounded via which he introduced the uniform bounded principle as the answer. Finally, he concluded the session by presenting the weaker version of the uniform bounded principle ‘Banach Steinhaus Theorem’ with examples.

Session III (14:20 to 15:50) & Session IV (16:00 to 17:30)

27. Dr. Sajeev Anand Sahu of Department of Mathematics and Computing, Indian Institute of Technology, Dhanbad, evaluated '**Seminar Presentation 02 & 03**'.

This was second and third session on Seminar Presentation activity of this refresher course. The

Participants presented on different topics of Mathematics in 10 Minutes duration. The details of presenters and their titles are tabulated below.

S. No.	Name of the Participant	Topic
15	Kiran Dewangan	Introduction of graph theory
16	Aniket Avinash Muley	Particle Swarm optimization
17	Dr. Govind Prasad Sahu	Infinite sets
18	Gnanavel Soundararajan	Partial Differential Equations-Weak derivatives
19	Dr.S.P.R.Priyalatha	Connectedness
20	Dr. Samiran Banerjee	On Graphs of Alternating Knots
21	Pratap Mondal	H-U-R stability of a pexider type quadratic functional equation in Banach spaces
22	Dr. Debraj Chandra	Certain types of selection principles and covering properties in topology
23	Dr. Dhrubajyoti Mandal	Controlling the dangerous effect of the stochastically vibrating border in piecewise smooth 1-D maps
24	Dr.S. Jayalakshmi	Statistical Quality control
25	Dr. Brojeswar Pal	Two cycle imperfect production inventory model
26	Dr.M. Vigneshwaran	Digital Topology
27	Dr.D. Vijayalakshmi	Graph coloring
28	Dr. Sudipta Dutta	AI-Statistical convergence
29	Muthuvel K	Fractional Derivative
30	Dildar Singh Tandon	A Product of fuzzy graph

**DAY 9 (19/01/2022)****Session I (10:30 to 12:00)**

28. Prof. Malay Banerjee, Department of Mathematics & Statistics, Indian Institute of Technology, Kanpur delivered the lecture on **“Mathematical exploration of compartmental epidemic models”**.

Prof. Malay Banerjee started his lecture by asking participants for any difficulties in the previous lecture and participants raised no concern. Then he started the session with the basic reproduction and the basic reproduction number. He elaborately discussed about Largest positive eigen value, Equilibrium point, SIQR model, Two-strain model, Model with Treatment, Bifurcation model, Backward bifurcation model etc. Prof. Banerjee spoke deeply in all the areas of the subject and all the necessary differential equation within details derivation. All the properties of such equations also had been discussed deeply.

Session II (12:10 to 13:40)

29. Dr. T. Suman Kumar of School of Mathematics and Statistics, University of Hyderabad simplified the topic **“Linear parabolic and hyperbolic PDEs-01”**.

At the beginning Dr. T. Suman Kumar outlined the wave equation and discussed the difficulties involved in it. Then, he started lecturing from some basic preliminary concepts regarding partial differential equation. The he discussed integration by parts for

multivariable used in the partial differential equations. Then he presented nicely the basic properties of Partial differential equations. Dr. T. Suman Kumar elaborately discussed about Surface to volume integrals, Surface to repeated integral, Gauss divergence theorem, etc. He also discussed many things regarding this subject many theorem and its proof etc.

Session III (14:20 to 15:50) & Session IV (16:00 to 17:30)



30. Prof. Birendra Kumar Sharma (Retired Professor) of School of Studies in Mathematics, Pt. Ravishankar Shukla University Raipur, assessed **Project Presentation** of the participants.

The list of participants along with their group and presented topics are listed below:

S. No.	Name of the Participant	Group	Title of Project
3	Jayprakash Laxman Matlam	1	Higher order Taylor Methods
6	Surekha Dewangan		
8	Ramprosad Saha		
7	Dr. Sujoy Das	2	Soft Real Numbers and their applications
9	Lokesh Kumar Satpathi		
10	Dr. Dipti Thakur		
11	Chandrauday Das Manikpuri	3	Mesh free method in the study of heat and mass transfer analysis in a free convective doubly stratified medium
12	Suganthi R.K.		
13	Chetan Kumar Sahu		
2	Mr.Sunilkumar Kuwarlal Shende		
15	Kiran Dewangan	4	Mathematical Modeling Optimization approach to study Air pollution parameters in Raipur
16	Aniket Avinash Muley		
17	Dr. Govind Prasad Sahu		
18	Gnanavel Soundararajan	5	Parameter Identification Problems in the System of Partial Differential Equations via Optimal Control Problem
19	Dr.S.P.R.Priyalatha		
20	Dr. Samiran Banerjee		
21	Pratap Mondal	6	

22	Dr. Debraj Chandra		Comparative study on Hyers -Ulam-Rassias stability of pexider type functional equations in Banach spaces using direct method and fixed point method
23	Dr. Dhruvajyoti Mandal		
24	Dr.S. Jayalakshmi	7	b* α -closed and b* α -open sets in the digital plane
25	Dr. Brojeswar Pal		
26	Dr.M. Vigneshwaran		
27	Dr.D. Vijayalakshmi	8	An Approach of Graph B-Colouring in Topological Indices and Its Chemical Applications
28	Dr. Sudipta Dutta		
29	Muthuvel K		
30	Dildar Singh Tandon	9	Coagulation Models.
31	Pooja Rai		
35	MD Meezanur Rahaman		
32	Dr. Faroz Ahmad Bhat	10	Mathematical Modeling of non-Newtonian Blood Flow in Stenotic Artery
33	Patel Aryan Kanjibhai		
34	Sarifuddin		

DAY 10 (20/01/2022)

Session I (10:30 to 12:00)



31. Prof. Malay Banerjee, Department of Mathematics & Statistics, Indian Institute of Technology, Kanpur delivered the lecture on **“Delayed models in epidemiology”**.

Prof. Malay Banerjee started his lecture on Delayed models in epidemiology. He described different types of delayed model equations on epidemiology. He briefly explained about epidemiology. After that he described delayed SIR model, temporary immunity and SEIR model. He elaborately discussed about stability analysis of above said delayed model equations with examples. Finally, he shows that how we can

investigate patterns and causes of disease and injury and how to reduce the risk and occurrence of negative health outcomes through research, community education and health policy.

Session II (12:10 to 13:40)



32. Dr. T. Suman Kumar from **School of Mathematics and Statistics, University of Hyderabad** simplified the topic “**Linear parabolic and hyperbolic PDEs-02**”.

This was second lecture of Dr. Suman Kumar in this Refresher Course. At the beginning he outlined the Second-Order Partial Differential Equations and classification of Second-Order Partial Differential Equations. He briefly explained about Linear, Semi linear, and Nonlinear Second-Order PDEs with example.

Dr. T. Suman Kumar elaborately discussed about Heat equation, Wave equation and Laplace equations with their examples. He also discussed about the equation of vibration of a string with their method of solution, etc.

Session III (14:20 to 15:50)



33. Prof. Sudhir Ramakant Ghorpade from **Department of Mathematics, Indian Institute of Technology, Bombay, Powai, Mumbai**, put in the words “**History of Algebra**”.

The resource person Professor S. Ghorpade at the outset introduced the very common concept of quadratic equation and announced the very origin of the quadratic equation. He then gave interesting general technique of solving a quadratic equation by purely involving the fundamental operations of arithmetic with extraction of square root inclusive.

He then discussed the application of quadratic equation with the help of an example. Moving to ahead in the lecture the resource person have enlightened participants by deriving the solution of a general cubic equation in which he first removed the 2nd term of the equation using the technique of diminishing the roots of the equation by a constant equal to the ratio of sum of roots of the equation by the degree of equation. He also mentioned the origin of solution of biquadratic equation to the audience. Finally, he showed certain glimpses of non-solvability of equations of degree greater or equal to 5 by radicals after comparing them to the non-solvability of groups.

Session IV (16:00 to 17:30)



34. Dr. Sajeev Anand Sahu of Department of Mathematics and Computing, Indian Institute of Technology, Dhanbad, evaluated '**Seminar Presentation 04**'.

This was the last session on Seminar Presentation activity of this refresher course. The Participants presented on

different topics of Mathematics in 10 Minutes duration. The details of presenters and their titles are tabulated below.

S. No.	Name of the Participant	Topic
31	Pooja Rai	Singularity
32	Dr. Faroz Ahmad Bhat	Complex versions of Rolle's theorem
33	Patel Aryan Kanjibhai	Topological spaces
34	Sarifuddin	Effect of Tissue Compositions on Drug Delivery after Drug-Coated Balloon Angioplasty : A Numerical Study
35	MD Meezanur Rahaman	Mathematics in nature

DAY 11 (21/01/2022)**Session I (10:30 to 12:00)**

35. Prof. Malay Banerjee, Department of Mathematics & Statistics, Indian Institute of Technology, Kanpur delivered the lecture on **“Mathematical modelling of COVID-19 epidemic”**.

This lecture was his last lecture in the series of four lectures in the refresher course. He started the lecture on Mathematical modelling of the COVID-19 epidemic. He gave an introduction about the coronavirus, COVID-19, SARS-CoV-2, etc., then he discussed data on the distribution of infected COVID-19 across the globe country-wise. In particular, he compared the infected report of the UK, Germany, France and Russia in graphs and also analysed the first, second and third wave of the above countries. He mentioned the various modelling approaches like delay differential equation model, age-structured model, etc., of the COVID-19 epidemic. The combination of the above models was generally the Ordinary differential equation model. It involves different types of models like SIR, SEIR, SLIAR, SEIQR, SEIQHR models. He also mentioned the most straightforward model with Quarantine and their solution and analysed it with the various countries' COVID data. He also explained the extended SEIQR type model for the COVID-19 epidemic and analysed different country data graphically. He also described the vaccination in two group epidemic models in the equation and studied graphically. He analysed the model by fitting it with data of European countries, mainly Germany, Italy, Spain, UK. Finally, he mentioned the equation of the immune-epidemiological model and analysed the data in graphical.

Session II (12:10 to 13:40)

36. Dr. T. Suman Kumar from **School of Mathematics and Statistics, University of Hyderabad** simplified the topic “**Linear parabolic and hyperbolic PDEs-03**”.

He first discussed some of the results of solution hyperbolic equations, which were completed in his last lecture and explained the surface integral, and then he described the method of descent for the wave equation solution in 2D. He derived the D’Alembert, Kirchhoff and Poisson formula and also derived the observation of the above procedures. Also, he discussed sound wave propagation in 3D.

He also talked about Huygens principles and wave equation. He discussed the heat equation and Fourier transform, Riemann integral, Dirichlet, Jordan results. He discussed the historical background of construction and solution of heat equation by Fourier. Lastly, he discussed some fundamental results for the solution of the heat equation.

Session III (14:20 to 15:50)

37. Dr. Suparna Sen Gupta, Librarian of **Pt. Sundar Lal Sharma Library, Pt. Ravishankar Shukla University, Raipur**, threw light on the topics ‘**Author identifier & its Role in Academia**’, ‘**IPR & Copyright**’ and ‘**Do’s and don’ts for Publication in Quality Journals**’.

This was the second lecture of Dr. Suparna Sen Gupta in this refresher course. In this talks he started with author identifier and

its role in academia, he explained how author identifier resolve the issue of ambiguity in the name of author and listed some of the popular author identifiers. Then he talked about IPR & Copyright, he beautifully explained the difference between these two topics and threw light on the various provisions of copyright, particularly copyright issues in digital era. Finally, he talked about do's and don'ts for quality publication. He meticulously explained the reason for rejection of papers in quality journal at Desk level. Finally, he explained journal selector submitting the paper for publication in the quality journals.

Session IV (16:00 to 17:30)



38. Prof. Bhaskar Mukherjee, from **Department of Library and Information Science, Banaras Hindu University, Varanasi** expressed his views on the topic '**Plagiarism and Ethical Practices in Teaching and Research**'.

In his talk, he explained what we generally think about plagiarism and what actually plagiarism is? He then explained what comes under the plagiarism and also various reason for which people committing plagiarism and explained the taxonomy of plagiarism. He further discussed in details how to avoid plagiarism and explained the steps to be taken to avoid plagiarism during planning and writing of paper and use of plagiarism software to detect similarities. Then he discussed about the software available to check plagiarism and explained that how the software checks the plagiarism. Finally, he informed about three tire plagiarism penalty system in India.

DAY 12 (22/01/2022)**Session I (10:30 to 12:00)**

39. Prof. K.N.Raghavan of **The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai** elucidated the topic '**Euler's Theorem and Applications**'.

This was second lecture of Prof. K.N.Raghavan in this Refresher Course. In this lecture, he started with introduction of mathematician Paul Erdos and his contribution in mathematics. He gave information regarding book "Proof from the Book" written by Paul Erdos. Lecture of the session was from chapter-12 of this book. He discussed about planner graph, Euler's theorem on planner graph. He explained about spanning tree and related theorems. He meticulously explained Euler's characteristics with examples.

Session II (12:10 to 13:40)

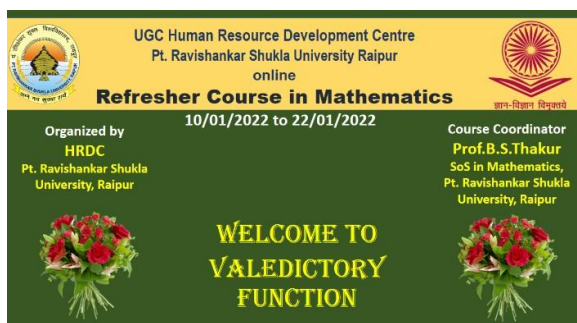
40. Dr. T. Suman Kumar of **School of Mathematics and Statistics, University of Hyderabad** simplified the topic "**Linear parabolic and hyperbolic PDEs-04**".

It was fourth and last lecture by Dr. Suman Kumar in the series of Linear Parabolic and Hyperbolic Partial Differential Equations. He discussed about solution of Heat equation. He derived expression for solution of initial value problems. He discussed about fundamental solutions and its derivation. He stated and prove the mean value properties. Further, he discussed about strong and weak maximum principles. He also explained uniqueness of the solution by Energy method.

Session III (14:20 to 15:50)

41. Prof. Rajendra Prasad Das, Pro-Vice Chancellor of Indira Gandhi National Open University, New Delhi, spoke on the topic titled 'Pedagogy in Education'.

This was last lecture in this Refresher Course. Prof. Das explained different teaching pedagogies. He stressed on the phobia for mathematics for many students and focused on active teaching to make the subject interesting from the student's point of view. He discussed about *case method* of teaching with an example. He emphasized on the method of active teaching that enhances critical thinking, communication and group discussion among students as compare to passive teaching of lecture type. He also discussed about New Education Policy 2020 and its importance from the mathematics subject point of view.

Session IV (16:00 to 17:30) Valedictory Function

Prof K L Verma, Hon'ble Vice-Chancellor of Pt. Ravishankar Shukla University, Raipur, was the Chief Guest in this function. Prof Shailendra Saraf, Director, HRDC, Pt. Ravishankar Shukla University, Raipur, was the Chairperson.

Prof Balwant Singh Thakur, Head, School of Studies in Mathematics, Pt. Ravishankar Shukla University, Raipur, was present as Course Coordinator.

Course coordinator, Prof Balwant Singh Thakur, presented brief report of this refresher course. He highlighted 37 lectures delivered during the refresher course by 16 eminent mathematicians from reputed institutes like IISc, IIT, IMSc and Central Universities and state University. He adds that the

topics covered in the refresher course are from different areas of pure mathematics and applied mathematics. Also, various hands-on training programs like LATEX, Python, and Mathematica enrich the participants' knowledge. Further, he thanked all the resource persons of the refresher course for accepting the invitation and dedicated lecturing to enrich the participants' knowledge. He also mentioned the initiative taken for availability of recorded lectures of this refresher course in the website.

Thereafter, the participants of the refresher course shared their feedback on the refresher course. Many of them expressed the benefit gained from the refresher course, they all appreciated the overall organization, contents, selection of resource persons from premier institutions and execution of the refresher course.

Chairperson, Professor Shailendra Saraf addressed the function, he assured that HRDC will continue to organize such good refresher courses. He congratulated Professor Balwant Singh Thakur, for successful conduction of refresher course. Honorable Vice Chancellor Prof. K. L. Verma, blessed all the participants with his valuable words and congratulated all the participants for successfully completing the refresher course and gave best wishes for implementing and sharing the knowledge learnt in the refresher course. He appreciated the effort taken by the course coordinator for proper planning and the systematic arrangement of the refresher course also the director of the HRDC for appropriate placements.

In the last, Dr. Arvind Agrawal, Assistant Professor, HRDC was given vote of thanks to the guests, participants and everyone involved in this refresher course. ■



UGC Human Resource Development Centre
Pt. Ravishankar Shukla University, Raipur-492010 (Chhattisgarh)

Refresher Course in Mathematics

(10/01/2022 to 22/01/ 2022)

Time Table (Consolidated)



	Session -I (10:30 to 12:00)		Session -II (12:10 to 13:40)		Session -III (14:20 to 15:50)		Session -IV (16:00 to 17:30)
First Week							
Day 01 10/01/2022	Registration, Inauguration & Induction	TEA Break	Lecture-01 Prof. S. Ghorpade	LUNCH Break	Lecture-02 Prof. Kalyan Chakraborty	TEA Break	Lecture-03 Prof. Kalyan Chakraborty
Day 02 11/01/2022	Lecture-04 Dr. Suparna Sengupta		Lecture-05 Prof. S. Ghorpade		Lecture-06 Prof. D.R.Sahu		Lecture-07 Dr. Rakesh Jana
Day 03 12/01/2022	Lecture-08 Prof. D.R.Sahu		Lecture-09 Dr. Rakesh Jana		Lecture-10 Prof. Sandip Banerjee		Lecture-11 Prof. Sandip Banerjee
Day 04 13/01/2022	Lecture-12 Prof. S. Ponnusamy		Lecture-13 Prof. Jagannath Patel		Lecture-14 Prof. B. S. Kushvah		Lecture-15 Prof. B. S. Kushvah
Day 05 14/01/2022	Lecture-16 Prof. Bhaskar Mukherjee		ICT/Micro teaching-01 Dr. Sahadeo Padhye		Lecture-17 Prof. Gadadhar Misra		ICT/Micro teaching-02 Dr. Sahadeo Padhye
Day 06 15/01/2022	Lecture-18 Prof. K.N.Raghavan		Lecture-19 Prof. Jagannath Patel		Lecture-20 Prof. Gadadhar Misra		ICT/Micro teaching-03 Dr. Sahadeo Padhye
Second Week							
Day 07 17/01/2022	Lecture-21 Prof. A.K.Nandkumaran	TEA Break	Lecture-22 Prof. Malay Banerjee	LUNCH Break	Lecture-23 Prof. Gadadhar Misra	TEA Break	Seminar Presentation-01 Prof.D.R.Sahu
Day 08 18/01/2022	Lecture-24 Prof. A.K.Nandkumaran		Lecture-25 Prof. Jagannath Patel		Seminar Presentation-02 Dr. Sanjeev Anand Sahu		Seminar Presentation-03 Dr. Sanjeev Anand Sahu
Day 09 19/01/2022	Lecture-26 Prof. Malay Banerjee		Lecture-27 Dr. T.Suman Kumar		Project Presentation-01 Prof.B.K.Sharma		Project Presentation-02 Prof.B.K.Sharma
Day 10 20/01/2022	Lecture-28 Prof. Malay Banerjee		Lecture-29 Dr. T.Suman Kumar		Lecture-30 Prof. S. Ghorpade		Seminar Presentation-04 Dr. Sanjeev Anand Sahu
Day 11 21/01/2022	Lecture-31 Prof. Malay Banerjee		Lecture-32 Dr. T.Suman Kumar		Lecture-33 Dr. Suparna Sengupta		MCQ End Test
Day 12 22/01/2022	Lecture-35 Prof. K.N.Raghavan		Lecture-36 Dr. T.Suman Kumar		Lecture-37 Prof. R.P. Das		Lecture-34 Prof. Bhaskar Mukherjee
Valedictory & Concluding Session							



Daily Activity Schedule

Date: 10/01/2022, Monday

Day: 01

Week: First Week

Schedule

Session-I Registration, Inauguration & Induction

10:30 -12:00

12:00 -12:10 Break

Session-II Lecture-01: Spectral Theorems for Matrices-01

12:10 -13:40

Prof. S.R.Ghorpade

Department of Mathematics

Indian Institute of Technology, Bombay

Powai, Mumbai 400076, India

E-mail: srg@math.iitb.ac.in

13:40 -14:20 Break

Session-III Lecture-02: Introduction to the 'Theory of Numbers'-01

14:20 -15:50

Prof. Kalyan Chakraborty

Director

KSCSTE-Kerala School of Mathematics

Kozhikode, Kerala

E-mail: kalychak@ksom.res.in

15:50 -16:00 Break

Session-IV Lecture-03: Introduction to the 'Theory of Numbers'-02

16:00 -17:30

Prof. Kalyan Chakraborty

Director

KSCSTE-Kerala School of Mathematics

Kozhikode, Kerala

E-mail: kalychak@ksom.res.in

Session	Chairperson	Reporter
I & II	Dr. Govind Prasad Sahu	Dr. Samiran Banerjee
III & IV	Sarifuddin	MD Meezanur Rahaman

Date: 11/01/2022, Tuesday

Day: 02

Week: First Week

Schedule

Session-I 10:30 -12:00	Lecture-04: E-Resources Dr. Suparna Sengupta Librarian, Pt.Sundar Lal Sharma Library Pt. Ravishankar Shukla University, Raipur E-mail: suparnasengupta61@gmail.com
12:00 -12:10	Break
Session-II 12:10 -13:40	Lecture-05: Spectral Theorems for Matrices-02 Prof. S.R.Ghorpade Department of Mathematics Indian Institute of Technology, Bombay, Mumbai, India E-mail: srg@math.iitb.ac.in
13:40 -14:20	Break
Session-III 14:20 -15:50	Lecture-06: Optimization via fixed point theory-01 Prof. D.R.Sahu Department of Mathematics Banaras Hindu University, Varanasi E-mail: drsahudr@gmail.com
15:50 -16:00	Break
Session-IV 16:00 -17:30	Lecture-07: LaTeX: Basics, Mathematics, and Table Dr. Rakesh Jana Department of Mathematics Indian Institute of Technology, Guwahati E-mail: j.rakesh@iitg.ac.in

Session	Chairperson	Reporter
I & II	Dr. Samiran Banerjee	Dr. Samiran Banerjee
III & IV	Mr. Sunilkumar Kuwarlal Shende	Dr. S. Jayalakshmi

Date: 12/01/2022, Wednesday

Day: 03

Week: First Week

Schedule

Session-I 10:30 -12:00	Lecture-08: Optimization via fixed point theory-02 Prof. D.R.Sahu Department of Mathematics Banaras Hindu University, Varanasi E-mail: drsahudr@gmail.com
12:00 -12:10	Break
Session-II 12:10 -13:40	Lecture-09: LaTeX: Figure, References and Citations, Tikz Dr. Rakesh Jana Department of Mathematics Indian Institute of Technology, Guwahati E-mail: j.rakesh@iitg.ac.in
13:40 -14:20	Break
Session-III 14:20 -15:50	Lecture-10: Mathematical Modeling with MATHEMATICA-01 Prof. Sandip Banerjee Department of Mathematics Indian Institute of Technology, Roorkee E-mail: sandip.banerjee@ma.iitr.ac.in
15:50 -16:00	Break
Session-IV 16:00 -17:30	Lecture-11: Mathematical Modeling with MATHEMATICA-02 Prof. Sandip Banerjee Department of Mathematics Indian Institute of Technology, Roorkee E-mail: sandip.banerjee@ma.iitr.ac.in

Session	Chairperson	Reporter
I & II	Jayprakash Laxman Matlam	Dr. S.P.R. Priyalatha
III & IV	Chandrauday Das Manikpuri	Pratap Mondal

Date: 13/01/2022, Thursday

Day: 04

Week: First Week

Schedule

Session-I
10:30 -12:00
Lecture-12: Foundations of Complex Analysis
Prof. S. Ponnusamy
Department of Mathematics
Indian Institute of Technology, Madras, Chennai, India
E-mail: samy@iitm.ac.in

12:00 -12:10 Break

Session-II
12:10 -13:40
Lecture-13: Metric Spaces
Prof. Jagannath Patel
Professor (Retd.)
Department of Mathematics
Utkal University, Bhubaneswar
E-mail: jpatelmth@yahoo.co.in

13:40 -14:20 Break

Session-III
14:20 -15:50
Lecture-14: Basics of Python
Prof. B. S. Kushvah
Department of Mathematics and Computing
Indian Institute of Technology, Dhanbad
E-mail: bskush@iitism.ac.in

15:50 -16:00 Break

Session-IV
16:00 -17:30
Lecture-15: Advanced Topics of Python
Prof. B. S. Kushvah
Department of Mathematics and Computing
Indian Institute of Technology, Dhanbad
E-mail: bskush@iitism.ac.in

Session	Chairperson	Reporter
I & II	Dr. Dhruvajyoti Mandal	M.S. Srinivasan
III & IV	Surekha Dewangan	Gnanavel Soundararajan

Date: 14/01/2022, Friday

Day: 05

Week: First Week

Schedule

Session-I 10:30 -12:00	Lecture-16: Plagiarism Prof. Bhaskar Mukherjee Department of Library & Information Science Banaras Hindu University, Varanasi E-mail: mukherjee.bhaskar@gmail.com
12:00 -12:10	Break
Session-II 12:10 -13:40	Micro Teaching -01 Dr. Sahadeo Padhye Department of Mathematics Mohtilal Nehru National Institute of Technology Allahabad, Prayagraj E-mail: sahadeo@mnnit.ac.in
13:40 -14:20	Break
Session-III 14:20 -15:50	Lecture-17: Fundamental theorem of calculus, Green's theorem and the Poincare Lemma Prof. Gadadhar Misra J C Bose National Fellow Statistics and Mathematics Unit Indian Statistical Institute, Bangalore E-mail: gadadhar.misra@gmail.com
15:50 -16:00	Break
Session-IV 16:00 -17:30	Micro Teaching -02 Dr. Sahadeo Padhye Department of Mathematics Mohtilal Nehru National Institute of Technology Allahabad, Prayagraj E-mail: sahadeo@mnnit.ac.in

Session	Chairperson	Reporter
I & II	Ramprosad Saha	Dr. Sujoy Das
III & IV	Dr. Dipti Thakur	Dr. D. Vijayalakshmi

Date: 15/01/2022, Saturday

Day: 06

Week: First Week

Schedule

Session-I **Lecture-18: Introductory talks on Topology-01**

10:30 -12:00

Prof. K.N.Raghavan

The Institute of Mathematical Sciences

CIT Campus, Taramani, Chennai 600 113

E-mail: knr@imsc.res.in

12:00 -12:10

Break

Session-II

12:10 -13:40

Lecture-19: Normed and Banach Spaces

Prof. Jagannath Patel

Department of Mathematics

Utkal University, Bhubaneswar

E-mail: jpatelmath@yahoo.co.in

13:40 -14:20

Break

Session-III

14:20 -15:50

Lecture-20: The Ahlfors's Schwarz Lemma

Prof. Gadadhar Misra

J C Bose National Fellow

Statistics and Mathematics Unit,

Indian Statistical Institute, Bangalore

E-mail: gadadhar.misra@gmail.com

15:50 -16:00

Break

Session-IV

16:00 -17:30

Micro Teaching -03

Dr. Sahadeo Padhye

Department of Mathematics

Mohtilal Nehru National Institute of Technology Allahabad, Prayagraj

E-mail: sahadeo@mnnit.ac.in

Session	Chairperson	Reporter
I & II	Dr. S.P.R. Priyalatha	Dr. Brojeswar Pal
III & IV	Lokesh Kumar Satpathi	Dr. Dhruvajyoti Mandal

Date: 17/01/2022, Monday**Day: 07****Week: Second Week****Schedule**

Session-I
10:30 -12:00 **Lecture-21: Partial differential equations-01**
Prof. A. K. Nandakumaran
Department of Mathematics
Indian Institute of Science Bangalore
E-mail: nands@iisc.ac.in

12:00 -12:10 Break

Session-II
12:10 -13:40 **Lecture-22: Introduction to compartmental models in epidemiology**
Prof. Malay Banerjee
Department of Mathematics & Statistics
Indian Institute of Technology, Kanpur
E-mail: malayb@iitk.ac.in

13:40 -14:20 Break

Session-III
14:20 -15:50 **Lecture-23: The determinant function**
Prof. Gadadhar Misra
J C Bose National Fellow
Statistics and Mathematics Unit
Indian Statistical Institute, Bangalore
E-mail: gadadhar.misra@gmail.com

15:50 -16:00 Break

Session-IV
16:00 -17:30 **Seminar Presentation-01**
Prof. D.R.Sahu
Department of Mathematics
Banaras Hindu University, Varanasi
E-mail: drsahudr@gmail.com

Session	Chairperson	Reporter
I & II	Dr. Faroz Ahmad Bhat	Debraj Chandra
III & IV	Pooja Rai	Dr. Sudipta Dutta

Date: 18/01/2022, Tuesday

Day: 08

Week: Second Week

Schedule

Session-I 10:30 -12:00	Lecture-24: Partial differential equations-02 Prof. A. K. Nandakumaran Department of Mathematics Indian Institute of Science Bangalore E-mail: nands@iisc.ac.in
12:00 -12:10	Break
Session-II 12:10 -13:40	Lecture-25: Banach Spaces, Dual Spaces, Uniform Bounded Principle Prof. Jagannath Patel Department of Mathematics Utkal University, Bhubaneswar E-mail: jpatelmth@yahoo.co.in
13:40 -14:20	Break
Session-III 14:20 -15:50	Seminar Presentation-02 Dr. Sanjeev Anand Sahu Department of Mathematics and Computing Indian Institute of Technology, Dhanbad E-mail: sanjeev@iitism.ac.in
15:50 -16:00	Break
Session-IV 16:00 -17:30	Seminar Presentation-03 Dr. Sanjeev Anand Sahu Department of Mathematics and Computing Indian Institute of Technology, Dhanbad E-mail: sanjeev@iitism.ac.in

Session	Chairperson	Reporter
I & II	Dr. S. Jayalakshmi	Suganthi R. K.
III & IV	Patel Aryan Kanjibhai	Dr. M. Vigneshwaran

Date: 19/01/2022, Wednesday**Day: 09****Week: Second Week****Schedule**

Session-I
10:30 -12:00 Lecture-26: **Mathematical exploration of compartmental epidemic models**

Prof. Malay Banerjee

Department of Mathematics & Statistics

Indian Institute of Technology, Kanpur

E-mail: malayb@iitk.ac.in

12:00 -12:10 Break

Session-II
12:10 -13:40 Lecture-27: **Linear parabolic and hyperbolic PDEs-01**

Dr. T. Suman Kumar

School of Mathematics and Statistics

University of Hyderabad

E-mail: suman.hcu@gmail.com

13:40 -14:20 Break

Session-III
14:20 -15:50 **Project Presentation-01**

Prof. B.K.Sharma

School of Studies in Mathematics,

Pt.Ravishankar Shukla University, Raipur

E-mail: sharmabk07@gmail.com

15:50 -16:00 Break

Session-IV
16:00 -17:30 **Project Presentation-02**

Prof. B.K.Sharma

School of Studies in Mathematics,

Pt.Ravishankar Shukla University, Raipur

E-mail: sharmabk07@gmail.com

Session	Chairperson	Reporter
I & II	Dr. Sudipta Dutta	Sarifuddin
III & IV	Chetan Kumar Sahu	Aniket Avinash Muley

Date: 20/01/2022, Thursday**Day: 10****Week: Second Week****Schedule****Session-I** Lecture-28: **Delayed models in epidemiology**

10:30 -12:00

Prof. Malay Banerjee

Department of Mathematics & Statistics

Indian Institute of Technology, Kanpur

E-mail: malayb@iitk.ac.in

12:00 -12:10

Break**Session-II**

12:10 -13:40

Lecture-29: **Linear parabolic and hyperbolic PDEs -02****Dr. T. Suman Kumar**

School of Mathematics and Statistics

University of Hyderabad

E-mail: suman.hcu@gmail.com

13:40 -14:20

Break**Session-III**

14:20 -15:50

Lecture-30: **History of Algebra****Prof. S.R.Ghorpade**

Department of Mathematics

Indian Institute of Technology, Bombay

Powai, Mumbai 400076, India

E-mail: srg@math.iitb.ac.in

15:50 -16:00

Break**Session-IV**

16:00 -17:30

Seminar Presentation-04**Dr. Sanjeev Anand Sahu**

Department of Mathematics and Computing

Indian Institute of Technology, Dhanbad

E-mail: sanjeev@iitism.ac.in**&****MCQ End Term Test**

Session	Chairperson	Reporter
I & II	Dr. Sujoy Das	Ramprosad Saha
III & IV	Dr. D. Vijayalakshmi	Dr. Faroz Ahmad Bhat

Date: 21/01/2022, Friday

Day: 11

Week: Second Week

Schedule

Session-I 10:30 -12:00	Lecture-31: Mathematical modelling of COVID-19 epidemic Prof. Malay Banerjee Department of Mathematics & Statistics Indian Institute of Technology, Kanpur E-mail: malayb@iitk.ac.in
12:00 -12:10	Break
Session-II 12:10 -13:40	Lecture-32: Linear parabolic and hyperbolic PDEs -03 Dr. T. Suman Kumar School of Mathematics and Statistics University of Hyderabad E-mail: suman.hcu@gmail.com
13:40 -14:20	Break
Session-III 14:20 -15:50	Lecture-33: Author Identifier and it's metrics Dr. Suparna Sengupta Librarian Pt.Sundar Lal Sharma Library Pt. Ravishankar Shukla University, Raipur E-mail: suparnasengupta61@gmail.com
15:50 -16:00	Break
Session-IV 16:00 -17:30	Lecture-34: Predatory Journals Prof. Bhaskar Mukherjee Department of Library & Information Science Banaras Hindu University, Varanasi E-mail: mukherjee.bhaskar@gmail.com

Session	Chairperson	Reporter
I & II	Dr. Brojeswar Pal	Muthuvel K
III & IV	Dildar Singh Tandon	Pooja Rai

Date: 22/01/2022, Saturday**Day: 12****Week: Second Week****Schedule****Session-I** **Lecture-35: Euler's Theorem and Applications**

10:30 -12:00

Prof. K.N.Raghavan

The Institute of Mathematical Sciences

CIT Campus, Taramani, Chennai 600 113

E-mail: knr@imsc.res.in

12:00 -12:10**Break****Session-II**

12:10 -13:40

Lecture-36: Linear parabolic and hyperbolic PDEs -04**Dr. T. Suman Kumar**

School of Mathematics and Statistics

University of Hyderabad

E-mail: suman.hcu@gmail.com

13:40 -14:20**Break****Session-III**

14:20 -15:50

Lecture-37: Pedagogy in Education**Prof. R.P. Das**

Pro-Vice Chancellor

Indira Gandhi National Open University

Maidan Garhi, New Delhi

E-mail: dasrp29@gmail.com

15:50 -16:00**Break****Session-IV**

16:00 -17:30












Valedictory & Concluding Session

Session	Chairperson	Reporter
I & II	Gnanavel Soundararajan	Dr. Govind Prasad Sahu
III & IV	Kiran Dewangan	Gnanavel Soundararajan

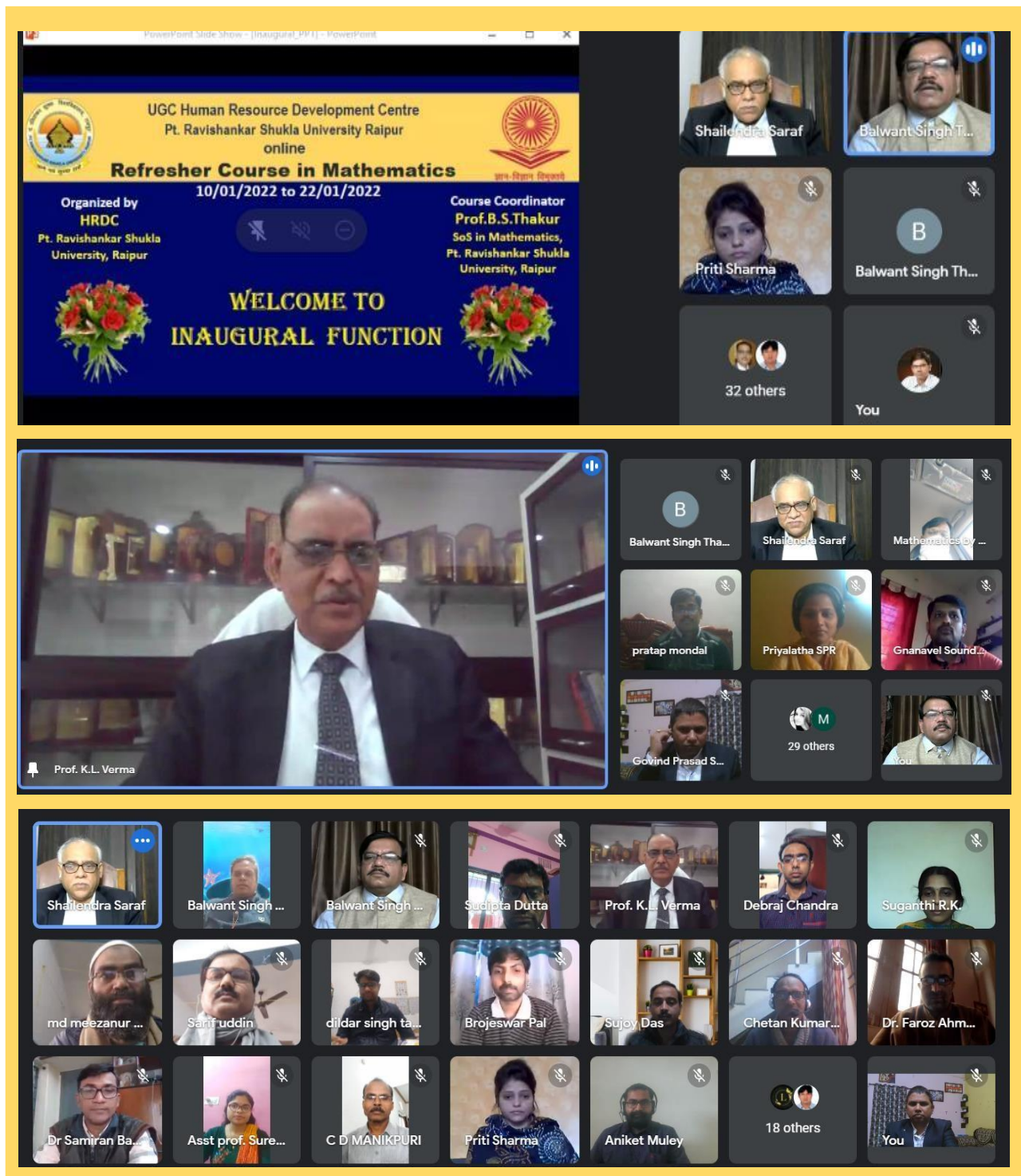
List of Participants

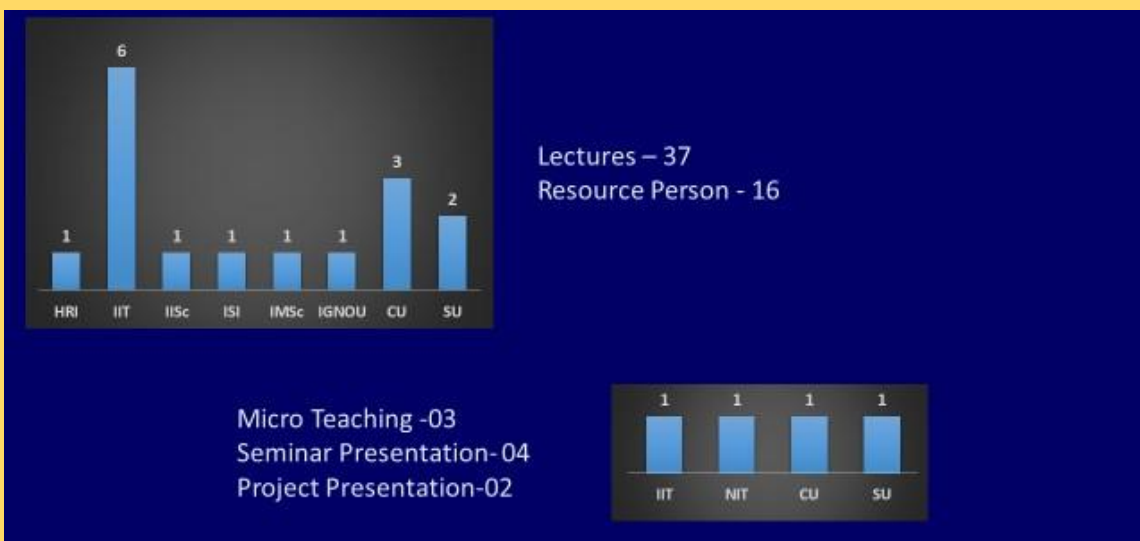
S. No.	Name of Participant	Email Address	Mobile Number	Photo	Name of College	Affiliated University
01.	Mr. Sunilkumar Kuwarlal Shende	sunilkshende9987@gmail.com	7057613291		J. M. Patel Arts, Commerce & Science College, Bhandara, (M.H.)	RTM Nagpur University, Nagpur, (M.H.)
02.	Jayprakash Laxman Matlam	matlam.jayprakash@gmail.com	7972284092		J. M. Patel Arts, Commerce & Science College, Bhandara, (M.H.)	RTM Nagpur University, Nagpur, (M.H.)
03.	Surekha Dewangan	sure.dewap@gmail.com	7806047151		Govt. Dr. Indrajeet Singh College, Dist-Akaltara, Janjgir-Champa, (C.G.)	Shahid Nand Kumar Patel Vishwavidyalaya, Raigarh, (C.G.)
04.	Dr. Sujoy Das	sujoy_math@yahoo.co.in	7974442938		Suri Vidyasagar College, Suri, Birbhum, (W.B.)	The University of Burdwan, Bardhaman, (W.B.)
05.	Ramprosad Saha	itsramprasadhere@gmail.com	9232735232		Suri Vidyasagar College, Suri, Birbhum, (W.B.)	The University of Burdwan, Bardhaman, (W.B.)
06.	Lokesh Kumar Satpathi	lokeshsatpathi@gmail.com	8319736662		Govt. Naveen College Gudhiyari, Raipur, (C.G.)	Pt. Ravishankar Shukla, University, Raipur, (C.G.)
07.	Dr. Dipti Thakur	dipti.thakur15@gmail.com	9713877177		S.o.S. in Mathematics, Pt. Ravishankar Shukla University, Raipur, (C.G.)	Pt. Ravishankar Shukla, University, Raipur, (C.G.)
08.	Chandrauday Das Manikpuri	cdmanikpuri22@gmail.com	9098045935		Govt. Ghanshyam Singh Gupt P.G. College, Balod, (C.G.)	Hemchand Yadav University, Durg, (C.G.)
09.	Suganthi R. K.	rk_suganthi@yahoo.co.in	9841747204		Sir Theagaraya College, Chennai, Tamil Nadu	University of Madras, Chennai, Tamil Nadu

10.	Chetan Kumar Sahu	ccpu123@gmail.com	09425290168		Govt. Dr. Baba Saheb Bhimrao Ambedkar P.G. College, Dongargaon, Rajnandgaon, (C.G.)	Hemchand Yadav University, Durg, (C.G.)
11.	Kiran Dewangan	Dewangan.kiran@gmail.com	9907144122		Govt. Dudhadhari Bajrang Girls P.G. College, Raipur, (C.G.)	Pt. Ravishankar Shukla, University, Raipur, (C.G.)
12.	Aniket Avinash Muley	aniket.muley@gmail.com	7276114558		School of Mathematical Sciences, Swami Ramanand Teerth Marathwada University, Nanded, (M.H.)	
13.	Dr. Govind Prasad Sahu	govind3012@gmail.com	9926963899		Centre for Basic Science, Pt. Ravishankar Shukla University, Raipur, (C.G.)	
14.	Gnanavel Soundararajan	gnanavel.math.bu@gmail.com	9605798241		Central University of Kerala, Kerala	
15.	Dr. S.P.R. Priyalatha	max.priya04@gmail.com	7708065714		Kongunadu Arts and Science College (Autonomous), Coimbatore, Tamil Nadu	Bharathiar University, Coimbatore, Tamil Nadu
16.	Dr. Samiran Banerjee	samiran.bkgc@gmail.com	9874209951		Bijoy Krishna Girls' College, Howrah, (W.B.)	University of Calcutta, Kolkata, (W.B.)
17.	Pratap Mondal	pratapmondal111@gmail.com	9732914192		Bijoy Krishna Girls' College, Howrah, (W.B.)	University of Calcutta, Kolkata, (W.B.)
18.	Dr. Debraj Chandra	debrajchandra1986@gmail.com	8101333810		University of Gour Banga, Malda, (W.B.)	University of Gour Banga, Malda, (W.B.)
19.	Dr. Dhruvjayoti Mandal	dhrubajyoti.mathematics@berhamporegirlscollege.ac.in	9593490744		Berhampore Girls' College, Berhampore, (W.B.)	University of Kalyani, Kalyani, (W.B.)
20.	Dr. S. Jayalakshmi	jayalakshmi@buc.edu.in	8870917738		Bharathiar University, Coimbatore, Tamil Nadu	

21.	Dr. Brojeswar Pal	bpal@math.buruniv.ac.in	9477127067		The University of Burdwan, Bardhaman, (W.B.)	
22.	Dr. M. Vigneshwaran	vigneshmaths@kongunaducollege.ac.in	09942882558		Kongunadu Arts and Science College (Autonomous), Coimbatore, Tamil Nadu	Bharathiar University, Coimbatore, Tamil Nadu
23.	Dr. D. Vijayalakshmi	vijimaths@kongunaducollege.ac.in	09442534761		Kongunadu Arts and Science College (Autonomous), Coimbatore, Tamil Nadu	Bharathiar University, Coimbatore, Tamil Nadu
24.	Dr. Sudipta Dutta	drsudipta.prof@gmail.com	7407281765		Govt. General Degree College, Manbazar II, Purulia, (W.B.)	Sidho- Kanho- Birsha University, Purulia, (W.B.)
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26..	Dildar Singh Tandon	dildartandon1983@gmail.com	9827462154		Dr. Jwala Prasad Mishra Govt. Science College, Mungeli, (C.G.)	Atal Bihari Vajpai Vishwavidyalya, Bilaspur, (C.G.)
27.	Pooja Rai	raipooja1192@gmail.com	9456911440		V.V. P.G. College, Shamli, (U.P.)	Chaudhary Charan Singh University, Meerut, (U.P.)
28.	Dr. Faroz Ahmad Bhat	farozmaths1080@gmail.com	9797045229		Department of Mathematics, South Campus University of Kashmir, (J&K)	
29.	Patel Aryan Kanjibhai	aryanpatelvi1982@gmail.com	9974543813		M.N. College Visnagar	Hemchandracharya North Gujarat University, Patan
30.	Sarifuddin	suind1213@gmail.com	9733881925		Berhampore College	University of Kalyani
31.	Md Meezanur Rahaman	meeza_math_s@rediffmail.com	7548076276		Berhampore College	University of Kalyani

Glimpses





Spectral Theorems for Matrices

History of Algebra

Sudhir R. Ghorpade
Department of Mathematics
IIT Bombay
<http://www.math.iitb.ac.in/~srg/>

UGC Refresher Course in Mathematics
Raipur, January 2022

Some Conjectures:

- ① Goldbach Conj: Every even int. > 2 can be written as a sum of 2 primes.
- ② Twin prime Conj: $(3, 5), (5, 7), (11, 13), (17, 19), \dots$
 $(p_n, p_{n+2}) \leftarrow$ twin primes
 \rightarrow only many twin primes.
- ③ Mersenne primes:

Optimization via fixed point theory

Professor D.R. Sahu

Department of Mathematics
 Banaras Hindu University, Varanasi

Online Refresher Course in Mathematics, 10-22 January, 2022
 Human Resource Development Centre (HRDC)
 School of Studies in Mathematics,
 Pt. Ravishankar Shukla University, Raipur, India

FOUNDATIONS OF COMPLEX ANALYSIS

Saminathan Ponnusamy

IIT Madras,
 Chennai 600 036, India.

Metric Spaces
 J. Patel
 Utkal University
 January 13, 2022

Normed Spaces, Banach Spaces
 January 15, 2022

Banach Spaces, Dual Spaces, Uniform Bounded Principle
 January 18, 2022

**Fundamental Theorem of Calculus
 Green's theorem, and the Poincare Lemma**
 Pandit Ravishanker

Differentiation (!)
 Gadadhar Misra
 Indian Statistical Institute, Bangalore
 and
 Indian Institute of Technology, Gandhinagar
 January 17, 2022

Schwarz Lemma and applications
 near Shukla University
 or Course (10-22 Jun, 2022)
 2022
 Misra
 Statistical Institute, Bangalore
 and
 Institute of Technology, Gandhinagar.

Introductory talks on Topology - I & II
 Definition of top. ~ 1900s. Non-intuitive. I. Definition could be non-intuitive

Euler's Thm & Applications:
THM (EULER) G connected plane graph with n vertices

Ref: "Proofs from the Book" 4th Edition Ch 12
 PAUL ERDŐS

Laplace Operator and Solvability of BVP, Fundamental Solution, Mean Value Theorem, Maximum Principles, Greens' Function*

Nandakumar, A. K.
Department of Mathematics
Indian Institute of Science
Bangalore- 560 012
India

Wave equation-1

Problem: (1) Let $x \in \mathbb{R}^1$, $t \in \mathbb{R}^1$. Suppose $u: \mathbb{R}^2 \rightarrow \mathbb{R}$ in radial, i.e., $\exists f: \mathbb{R}^1$.

Wave equation (n=1) $\begin{cases} u_{tt} = u_{xx}, & x \in \mathbb{R}, t > 0 \\ u(x,0) = g(x), & x \in \mathbb{R} \end{cases}$

$u(x,t) = \frac{1}{2} (g(x-ct) + g(x+ct)) + \frac{1}{2c} \int_{x-ct}^{x+ct} h(s) ds$

Observations for $u(x,t)$

Mean value property: Suppose $u_x - \Delta u = 0$.

$u(x,t) = \frac{1}{\omega_n} \int_{E(x,t,y)} \frac{u(y,s)}{(r-s)^2} dy ds$

Way of disease transmission

- transmission human to human
- Mathematical
 - Ordinary
 - Partial
 - Delay D
 - Stochastic
- N → size of

Basic Reproduction Number → Next Generation Matrix approach

$X' = f(X, Y), Y' = g(X, Y) \quad X = (x_1, x_2, \dots, x_n)^T$

Delayed SIR Model

$$\frac{dS}{dt} = A - \mu S - \beta S(t) I(t-\tau)$$

$$\frac{dI}{dt} = \beta S(t-\tau) I(t-\tau) - \mu I$$

$$\frac{dR}{dt} = \alpha I(t) - \mu R$$

Mathematical modelling of COVID-19 epidemic

Malay Banerjee
Indian Institute of Technology Kanpur, India
E-mail: malayb@iitk.ac.in

UGC - HRDC
Pandit Ravishankar Shukla University, Raipur, India
21 January, 2022

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Mathematical Models in Biology

Sandip Banerjee
Department of Mathematics
IIT Roorkee

WOLFRAM MATHEMATICA 12

LATEX WORKSHOP

AN INTRODUCTION TO LATEX

RAKESH JANA, ^{sc}
DEPARTMENT OF MATHEMATICS,
IIT GUWAHATI, INDIA

j.rakesh@iitg.ac.in
<https://rjana.in/latex>

```

139 \usepackage{tikz}
140 \usepackage{tikz}
141 Here I am referring the equation
142 \ref{eq1}
143
144 \begin{tikzpicture}
145 \draw (0,0) circle (1cm);
146 \draw[draw=red,fill=blue,opacity=0.5]
(0,0) -- (1,0) -- (1,-1) -- (0,-1) --
(0,0);
147 \draw (0,0) -- (1,0);
148 \usepackage{tikz}
149
150
151 \usepackage{tikz}
    
```

Here I want to cite the recently add

adifis	isifids
isifid	isifid
isifid	isifid

Here I am referring the equation 2.

References

Basics of Python

Dr. B.S. Kushvah

Department of
Email

Equation Solving

```

1 # Solving a system of linear equations
2 # using numpy.linalg.solve()
3 # Example: Solve the system of equations
4 # 2x + 3y = 10
5 # x - y = 2
6 # The coefficient matrix A and the constant vector b are:
7 # A = [[2, 3], [1, -1]]
8 # b = [10, 2]
9 # The solution is given by x = A^-1 * b
10 # Using numpy.linalg.solve()
11 A = [[2, 3], [1, -1]]
12 b = [10, 2]
13 x, y = numpy.linalg.solve(A, b)
14 print("The solution is x = %f and y = %f" % (x, y))
15 # Output: The solution is x = 2.0 and y = 2.0
    
```

E-RESOURCES

FOR HIGHER EDUCATION
Introduction,
evaluation, search
techniques with
examples

Dr S Sen Gupta
11/01/2022




Publish in Quality Journal
does and don'ts

Dr Suparna Sen Gupta
E-mail: library_prsu@rediffmail.com
21/01/2022

Author Identifier and its Role in Academia



Right Author ? 




INTELLECTUAL PROPERTY RIGHT & COPYRIGHT IN DIGITAL ERA





Predatism in Scholarly Communication Process and Academic Integrity

Bhaskar Mukherjee, BHU, Varanasi





Plagiarism and Ethical Practices in Teaching and Research

Bhaskar Mukherjee, BHU, Varanasi

Handwritten notes:

Maths: product theory

$\mathcal{R} = \text{simple}$

$\mathcal{R} \subseteq \mathcal{R}$

$\mathcal{R} \leq$

$\mathcal{R} \geq$

(i) $\mathcal{R} = \mathcal{I}$

(ii) $\mathcal{R} = \mathcal{E}$

(iii) $\mathcal{R} = \mathcal{P}$

Handwritten notes:

The effect of discrete changes in objective function parameters on the optimal solution of a Linear Programming Problem.


Handwritten notes:

Signad Measure

algebra of subset of X An extended real function

$\mathcal{A} \rightarrow [0, \infty]$

Signad measure on a measurable space



Handwritten notes:

$x - x = 0 \in W \Rightarrow \mathcal{R}$ is reflexive.

Handwritten notes:

$x \mathcal{R} y \Rightarrow x - y \in W \Rightarrow y - x \in W$. \mathcal{R} is symmetric.

$\frac{1}{2} \mathcal{R} (-1) \cdot (-y) \in W$

$x \mathcal{R} y \& y \mathcal{R} z \Rightarrow (x - y) \in W \& (y - z) \in W$


$\Rightarrow (x - y) + (y - z) = (x - z) \in W$

\mathcal{R} is transitive.

Therefore \mathcal{R} is an equivalence relation on V .

Handwritten notes:

function M_i



The collage features several presentation slides and documents:

- On Graphs of Alternating Knots**: Presented by Dr. Sanjiban Barnejee, Assistant Professor, Rajy Krishna College, Raipur.
- RANK-NULLITY THEOREM**: Seminar topic, presented by Dr. S.P.R. Prityalaha, Assistant Professor, Department of Mathematics, Kangunada Arts and Science College, Guntur.
- Numerical Solution to boundary layer problem**: Presented by Dr. S.P.R. Prityalaha.
- Higher Order Taylor Methods**: Presented by I. Dr. Ranpreet Seka.
- Soft Real Numbers and their applications**: Prepared and Presented by I. Dr. Ranpreet Seka.
- Mesh free method in the study of Heat and Mass Transfer Analysis in a free convective doubly stratified medium**: Order of Presentation includes Mr. Sunilkumar Shende, Dr. K.K. Sugamji, and Mr. Chandrasuday Das Manikpuri.
- Project Presentation on Coagulation Models**: By Dikdar Singh Tandon, Pooja Rai, and MD. Meezanur Rahman, presented on January 19, 2022.
- Mathematical Modelling of Non-Newtonian Blood Flow in Stenotic Artery**: By Dr. Faraz Ahmad Bhat, Dept. of Mathematics, South Campus University of Kashmir (J&K), Patel Aryan Kanjibhai, M.N. College Patnagar, Patan, Gujarat, and Dr. Sarifuddin, Berhampore College, Berhampore, West Bengal.
- MCQ Ending Test**: A screenshot of a test interface with questions like "Does the linear congruence $5x \equiv 10 \pmod{20}$ have solution (s)? If solution(s) exist; how many solutions?" and "Let $U \subseteq \mathbb{R}^2$ be an open subset. There are non-constant differentiable functions $f: U \rightarrow \mathbb{R}^2$ ".

Marks and Grading pattern

Assessment Criterion and Marking:

Multiple-choice objective tests:	30
Seminars / participant presentation:	15
Project / survey / others:	20
Micro-teaching / participation:	10
Holistic response:	25
Total:	100

Grading pattern (based on Marks)

A+ : 85 percent and above
A : 70 percent to less than or equal to 84 percent
B : 60 percent to less than or equal to 69 percent
C : 50 percent to less than or equal to 59 percent
F : Below 49 percent

Those teacher participants who score F grade are required to repeat the program after a gap of one year without financial commitment to UGC-HRDC.



UGC - Human Resource Development Centre
Pt. Ravishankar Shukla University, Raipur



Organized

Faculty Induction Program

Guru - Dakshata

January – 12 to February – 17, 2022

Report

Theme of Course/Program:	Faculty Induction Program – (FIP) (Guru – Dakshata)
Name of Course Coordinator:	Dr. Brijendra Pandey Assistant Professor Human Resource Development Centre Pt. Ravishankar Shukla University, Raipur
Name of Contact person from HRDC:	Dr. Brijendra Pandey Assistant Professor Human Resource Development Centre Pt. Ravishankar Shukla University, Raipur
Date of Course/Program:	12.01.2022 to 17.02.2022
Number of Participants:	34
State wise number of participants:	(State-07) Chhattisgarh-18, Maharashtra-02, Gujarat-03, Bihar-02, Madhya Pradesh-02, West Bengal-05, Rajasthan-02
Gender wise number of participants:	Male – 28, Female – 06
Number of Resource Persons	51
Name and Signature of Course Coordinator	
Online Platform	
Google Meet	Meet.google.com/voe-msox-qcw

Organizing Team



Prof. K. L. Verma
Vice Chancellor, Pt. RSU, Raipur
(C.G.)



Prof. Shailendra Saraf
Director,
HRDC, Pt. RSU, Raipur (C.G.)

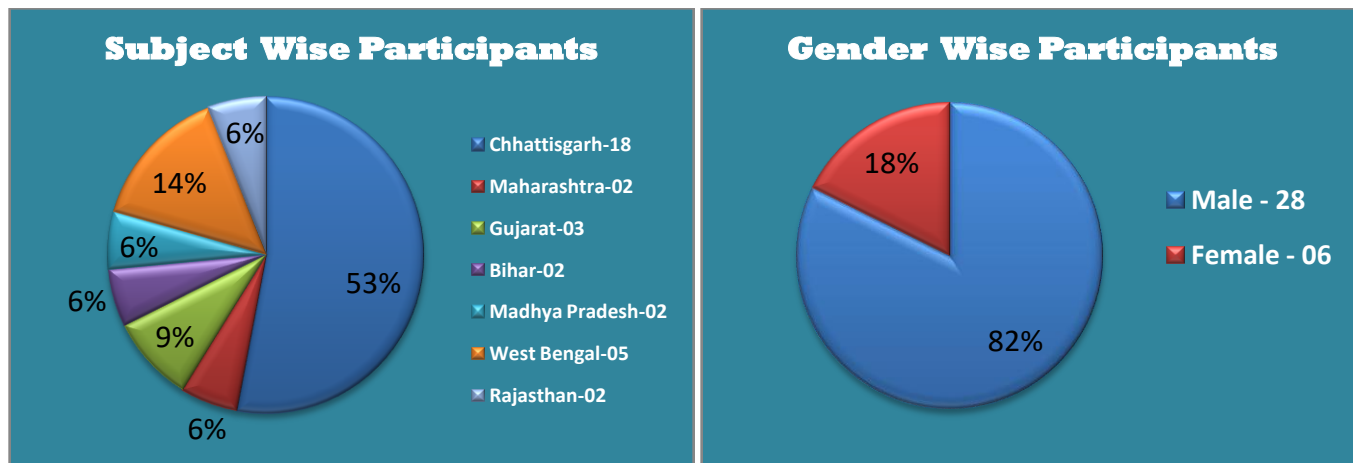


Dr. Brijendra Pandey
Assistant Professor, HRDC, Pt. RSU,
Raipur, (C.G.)

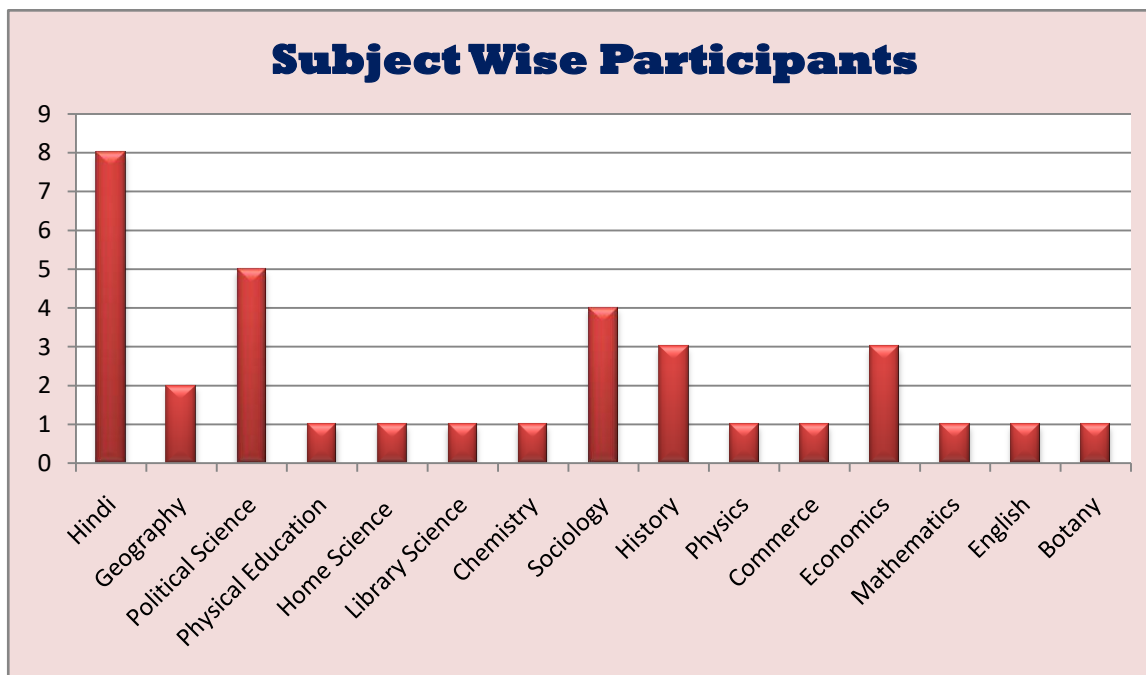
(12/01/2022 to 17/02/2022)

Faculty Induction Program - (Guru - Dakshata) **(12.01.2022 - 17.02.2022)**

Faculty Induction Program (GURU-DAKSHTA) of one month from 12/01/2022 to 17/02/2022 was conducted under the ambitious plan of the Ministry of Human Resource Development, Pt. Madan Mohan Malaviya National Mission on Teachers and Education. The main objective of this program was to provide information related to technical and educational aspects of higher education to newly appointed assistant professors in colleges and universities. Thirty-four assistant professors from Seven states namely Chhattisgarh, Maharashtra, Gujarat, Bihar, Madhya Pradesh, West Bengal, Rajasthan participated in this program. Out of which 08 were from Hindi, 03 from History, 02 Geography, 05 Political Science, 04 Sociology respectively, 03 Economics and 01- 01 from English, Botany, Chemistry, Commerce, Library Science, Physical Education, Physics, Home Science, Mathematics respectively. Among them, 28 participants were male and 06 participants were female. All the modules of the program had been carefully designed to incorporate the four coordinates (e-tutorials, e-content, web resources and self- assessment) prescribed by MHRD. Eminent educationists and experts of various subjects made the participants aware of the values of the society, new education system, research and new techniques through very good, effective and inspiring lectures and their doubts were resolved. Objective type online test of 10 marks at the end of each module as well as e-content development, brainstorming, Assignment, Seminar, Microteaching etc. from each module were conducted by the organisers and were successfully attended by the participants. The entire program was conducted on Google Meet platform every day in four sessions from 10.30 am to 5.30 pm.



(12/01/2022 to 17/02/2022)



Course Module

The courses were conducted to enrich the participants on the following 10 modules:

Module – 1: Higher Education and its Ecosystem (17h)

Module – 2: Curriculum designing, Outcome based learning and Choice based credit system (20h)

Module – 3: Teaching, Learning and Assessment (20h)

Module – 4: Technology for Teaching and Assessment of Ingeneration (20h)

Module – 5: Personal-Emotional Development and Counselling (20h)

Module – 6: Research, Professional Development and Academic Leadership (20h)

Module – 7: Academic Integrity (10h)

Module – 8: Constitutional Values, Human Rights and Fundamental Duties (13h)

Module – 9: Environmental Consciousness and Sustainable Development Goals (10h)

Module – 10: Strategic Planning and Management (15h)

(12/01/2022 to 17/02/2022)

Detail of date wise organized program

First online Faculty Induction program (Guru-Dakshata) was organized from 12/01/2022 to 17/02/2022. Various programmes were conducted date wise.

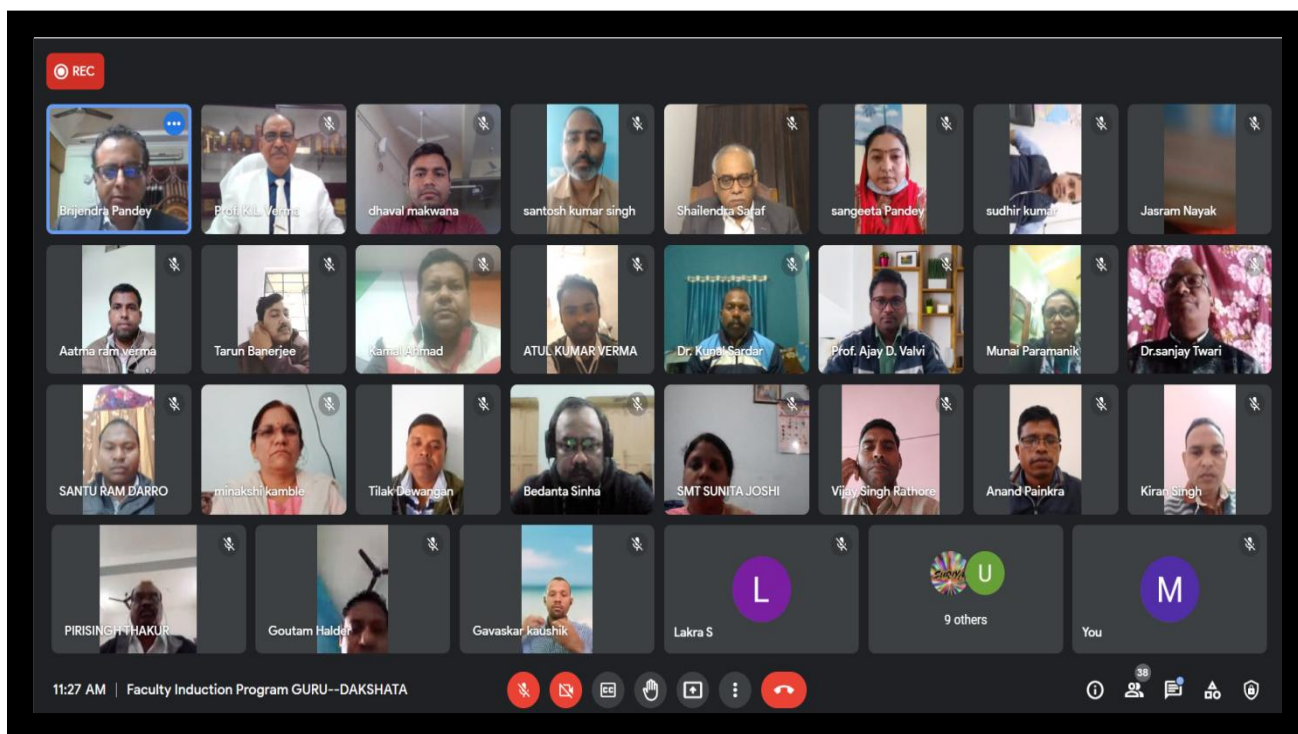
DAY 1

Session I (10.30-12.00) Inaugural Function

The Programme commenced with the Inaugural Function at 10.00 a.m. with Chief guest as Hon'ble Vice Chancellor **Prof. Keshari Lal Verma, Pt Ravishankar Shukla University, Raipur.** With **Prof. Shailendra Saraf, Director, HRDC, Pt Ravishankar Shukla University, Raipur** and Course Co-Ordinators, **Dr. Brijendra Pandey, HRDC, Pt Ravishankar Shukla University, Raipur.** the Programme commenced by welcoming them, which was followed by Introduction of the Participants, Prof. Shailendra Saraf gave detailed information regarding the 30 days Online Faculty Induction Program (Guru Dakshata) to the participants. Introduction about the course by Course Co-Ordinator and Address by the Director HRDC- Pt RSU.

Inaugural Address was given by Hon'ble Vice Chancellor who gave brief information about the program while congratulating the participants and how updated the Professors must be by using such useful courses. Finally Vote of Thanks was given by Course Co-Ordinator.

(12/01/2022 to 17/02/2022)



(12/01/2022 to 17/02/2022)

Session II (12:15 to 13:45)

1. Dr. Swarnlata Saraf, University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur, is conducted on topic entitled “Current Challenges and Opportunities in Indian Higher Education - Implications for the everyday classroom”

Here she discussed various issues related to the Indian ancient education system and also current higher education system and details about the current challenges and opportunities in higher education system.

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)

2. Prof. Pradeep K. Singhal, Professor, Department of Biotechnology, Rani Durgavati Vishwavidyalaya, Jabalpur is conducted on topic entitled -

(1) “Status of Indian Higher Education System” He analysed the current status of Indian Higher Education System, various schemes and programmes various educational tools and techniques of Indian

Higher Education System.

(2) “Reforms in Indian Higher Education System” He raised various issues related to reforms in Indian Higher Education System like knowledge capital, MOOCs, knowledge eco- system, various learning tools also focused on CBCS system flipped classroom, blended learning and transformation of the education system.

DAY 2**Session I (10.30-12.00)**

3. Dr. Neeraj Upmanu, Registrar, NIPER, Hajipur, Vishali is conducted on topic entitled “Scheme under UGC, ICSSR, ICHR, DBT and any other funding agencies”

In his inspiring lecture he explained criteria/method of obtaining national and international fellowships. He also explained certain

(12/01/2022 to 17/02/2022)

issues like VUCA and holistic approach in higher education. He also provided scholarship/fellowship web links of various agencies.

Session II (12.15-13.45)



4. Prof. Vijay Agrawal, (Dept. of chemistry) APS University

Rewa is conducted on topic entitled **“Scenario of Higher Education System”**

He explained teaching methods and environment in ancient, medieval and modern India. He also elaborated NEP 2020 in his lecture.

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)



5. Prof. C.B. Sharma, School of Education, Indira Gandhi

National Open University (IGNOU), New Delhi. is conducted on topic entitled -

(1) **“The Idea of University”** He discussed about autonomy of the universities and he also discussed about the major issues of universities like appointment, promotion, research, funding policy.

(2) **“Times Higher Education Ranking”** He explained about various parameters and criteria regarding performance indicators used in the ranking. In his inspiring lecture he used several informative examples.

DAY 3

Session I (10.30-12.00) & Session II (12.15-13.45)



6. Prof. Arbind Kumar Jha, Dean, School of Education, BB Ambedkar University, Lucknow. is conducted on topic entitled –

(1) **“The Idea of University”** He discussed on the topic “Current Trends in Higher Education: Indian and Global perspective”. He discussed about Global Trends of Higher Education and changes of higher education and demands.

(12/01/2022 to 17/02/2022)

(2) **“Understand Role and responsibility of faculty in the university”** He discussed about world of academia, rolls of academia, new educational narratives and discourses, transformative roles of academia.

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)



7. Prof. Vijay Agrawal, (Dept. of chemistry) APS University Rewa is conducted on topic entitled –

(1) & (2) “University Act, Statute, Ordinances and its role and importance in governance” He discussed about the establishment process of university and power of Chancellor, Vice-Chancellor, Rector in University and also discuss about various clauses of university and focused the discussion about Co-ordination Committee, Central Boards of studies, statutes ordinances and Regulations of University Act.

DAY 4

Session I (10.30-12.00)



8. Prof. Anand Vardhan Sharma, Sofia University Bulgaria, is conducted on topic entitled **“Institutional Planning and Development”**

He said that the basic aim of education is to make a better student, along with this he further explained to the newly appointed professors through various couplets and verses how the personality and conduct of the professor affects the whole society.

Session II (12.15-13.45)



9. Dr. Richa Dayaramani, Principal, Khyati College of Pharmacy, Ahmedabad, is conducted on topic entitled **“Consideration for designing the curriculum”**

Respected Dr. Dayaramani said that Curriculum is the soul of the university and college; the curriculum determines the work of our

(12/01/2022 to 17/02/2022)

whole year, and explained the various aspects of curriculum construction in detail to all the participants, and also answered the questions of the participants in a lucid manner.

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)



10. Dr. S.P. Gupta, Professor, Bipin Bihari College, Jhansi, is conducted on topic entitled - (1) & (2) “Comprehensive lecture on Choice Based Credit System and inculcation of Objective Test” & “To enhance the quality building session related to Questionnaire Method”

He discussed the Radhakrishnan Commission (1948-1949), The Kothari Commission and the National Education Policy, 2020. Giving complete information about the CBCS system with a student centric approach, its purpose, syllabus, examination method and grading system. Dr. Gupta also took feedback regarding CBCS system while discussing with the participant and also asked to prepare a syllabus of ability enhancement course of 2 credit score for next day brainstorming sessions.

DAY 5

Session I (10.30-12.00) & Session II (12.15-13.45)



11. Prof. C.D. Agashe, SoS in Physical Education, Pt. RSU Raipur (C.G.), is conducted on topic entitled –

(1) “Curriculum Design and Development” He shared his vast knowledge and experience with the participants in a very effective and efficient manner.

(2) “Psychological Foundation of Curriculum Development” He explained the various aspects and importance of Individual Difference in curriculum development.

(12/01/2022 to 17/02/2022)

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)

12. Prof. Sudhanshu Bhushan, HoD Higher and Professional Education, NUEPA, New Delhi, is conducted on topic entitled –

(1) “History and evolution of CBCS” He imparted in-depth and detailed information on all aspects related to the topic.

(2) “CBCS and Outcome Based Learning” By interacting with the participants, he pacified their queries and benefited them with his

vast knowledge and experience.

DAY 6**Session I (10.30-12.00)**

13. Dr. Richa Dayaramani, Principal, Khyati College of Pharmacy, Ahmedabad, is conducted on topic entitled –

(1) “Student evaluation using outcome based learning”

In his inspiring lecture she explained type and method of reliable assessment that we can use. She also explained about outcome based learning.

Session II (12.15-13.45)

14. Prof. Ninad Bodhankar, SoS in of Geology & WRM Pt. RSU Raipur, is conducted on topic entitled - **(1) “CBCS-case studies of good implementation”** He explained feature of CBCS and challenges of their implementation. He also give informative knowledge of digital learning platform like SWAYAM and MOOCs.

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)

15. Prof. S.K. Bawa, Professor and Dean School of Education, Central University of Punjab, is conducted on topic entitled –

(1) & (2) “Integrated Curriculum” & “To elaborate teaching learning process, pedagogical principals and assessment”

(12/01/2022 to 17/02/2022)

She discussed basic approach for curriculum design and She explained about various online tools which is helpful for development better learning contain. In her inspiring lecture she nicely explain pedagogical principal.

DAY 7

Session I (10.30-12.00) & Session II (12.15-13.45)



16. Dr. S.P. Gupta, Professor, Bipin Bihari College, Jhansi, is conducted on topic entitled - **Brainstorming**

today's lecture series guided brainstorming session of 34 participants successfully and also delivered a nice speech about the purpose of introducing CBCS system in higher education. He advised participants of various domain about how to moderate syllabi as per present scenario.

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)



17. Prof. P.K. Tulsi, Retd. Professor, National Institute of Technical Teachers' Training & Research, Chandigarh (Punjab), is conducted on topic entitled –

(1) & (2) “Assessment and Evaluation: Assessment for learning and assessment of learning” & “Assessment and Evaluation: Assessment for learning and assessment of learning

In his lecture, Dr. Tulsi said that now we have not only to pass and fail our students by taking their exams, but to convert their knowledge and skills into employability. Now we have to make our curriculum more strong, to develop our students all over. We have to make parents also a part of this teaching-learning process, so that we can achieve our goal.

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DAY 8**Session I (10.30-12.00) & Session II (12.15-13.45)**

18. Dr. Sudarshan Panigrahi, Department of Education, MS University Baroda Vadodara (Gujarat), is conducted on topic entitled –

(1) & (2) “Teaching Strategies: Constructivism, Critical Pedagogy and Blended Learning”

Dr. Sudarshan Panigrahi gave in-depth explanations to the participants about critical pedagogy and blended learning. In the second session, he provided guidance on the importance of teaching strategy in the teaching-learning process. Then at the end of the session the questions of the participants were answered.

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)

19. Dr. C.S. Vazalwar, Associate Prof. & Head, Dept. of Education, GGU Central University, Bilaspur (C.G.), is conducted on topic entitled –

(1) “Lesson Planning- Basic idea, logic and different types, skills and techniques for writing lesson plans” Dr. CS Vazalwar gave a

detailed explanation of the basic idea of teaching planning, its logic and its various types. Dr. C.S. Vazalwar was introduced also has the skills and techniques to lesson planning.

(2) “Learning and the Learner” In which Dr. Vazalwar explained in detail why a lesson plan is needed. In which he said that it helps teacher to ensure that day to day activities that go on in their classrooms. In this session he also discussed the role of social environment in the teaching-learning process. The elements of the lesson plan were explained in detail in this session. At the end of the session, the participants engaged in the training asked questions regarding the topic which were answered by the resource person.

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DAY 9**Session I (10.30-12.00) & Session II (12.15-13.45)**

20. Prof. Asheesh Srivastava, Dean School of Education, Mahatma Gandhi Central University, Motihari, East Champaran, Bihar, is conducted on topic entitled –

(1) & (2) “Effective Classrooms in Relation to NEP 2020” & “Time management, use of humor in teaching, balancing firmness and friendliness”

During his lecture, while discussing in detail on NEP 2020, giving complete information regarding 5+3+3+4, he also told its importance for the complete development of the students. Now we have multidisciplinary approach, in which students can do their studies by choosing different subjects and institutions as per their convenience.

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)

21. Prof. C.D. Agashe, SoS in Physical Education, Pt. RSU Raipur (C.G.), is conducted on topic entitled –

(1) “Teaching my style” In the beginning of his lecture, where he said the lecture should be easy, simple and organized, for this we should be very well prepared. Understanding the subject, it is necessary to reach out to the students through different types of social examples. In this regard, he also received feedback from the participant.

(2) “Conceptual Learning” He elaborated the topic starting with real world situation of knowledge and skills. On Conceptual Learning he gave many examples like Cricket and recent Olympic Gold Medalist of Javelin thrower Mr. Neeraj Chopra and explained why Conceptual Learning is very important. Prof. Agashe cleared the doubts of the participants. The session was very fruitful and knowledgeable.

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DAY 10**Session I (10.30-12.00)**

22. Dr. Swarnlata Saraf, University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur, is conducted on topic entitled – “Mentoring individual students and student group-skills and strategies”

She shared his vast knowledge and experience with the participants in a very effective and efficient manner.

Session II (12.15-13.45)

23. Dr. Hima P. Bindu, Department of Physics, Osmania University, Hyderabad, is conducted on topic entitled – “Creating blogs, Basics of creating Web pages” She explained the various aspects and importance of blogging and web page.

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)

24. Prof. K. Srinivas, NUEPA, New Delhi, is conducted on topic entitled –

(1) & (2) “Digital Initiatives of GOI: Building the Competencies of Teachers for online Teaching & OER: Concept & Licensing Search, Use & Reuse” & “Hands on Exposure on E-Content Development Tools”. He first showed us his learning portal, the

requirements needed for a perfect teacher, issues of Covid-19 and higher education. Sir discussed about the 21st class, and redefined the learning role transform learning from push to pull which consisted of centralized learning. He briefly discussed about blended learning, objectives of it, and also a format for submission of activity. The session was a learning session for us and we learned many things about blended learning. We learned about some teachings skills which could help us to teach the students easily in online.

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DAY 11**Session I (10.30-12.00) & Session II (12.15-13.45)**

25. Prof. B.S. Thakur, Head, SoS in Mathematics, Pt. Ravishankar Shukla University, Raipur, C.G., is conducted on topic entitled –
(1) & (2) “Google form and Google Sites”

प्रथम सत्र :- प्रथम सत्र का प्रारंभ प्रातः 10.30 पर हुआ। जिसमें प्रख्यात शिक्षाविद् प्रो. बलवंत सिंह ठाकुर जी के द्वारा वर्तमान परिपेक्ष्य में “गूगल फार्म” के महत्व को बताते हुए गूगल फार्म निर्माण की बारीकियों को चरणबद्ध तरीके से बहुत ही अच्छी तरह से सभी प्रतिभागियों को अवगत कराया। कई प्रतिभागियों ने सत्र के दौरान ही गूगल फार्म बनाकर देखा गया, जिसमें बीच में कुछ दिक्कतें भी हुईं, जिनका समाधान प्रो. ठाकुर जी के द्वारा बहुत ही सहज तरीके से बताया गया।

द्वितीय सत्र :- द्वितीय सत्र की शुरुआत दोपहर 12.15 बजे हुआ। जिसमें प्रो. बलवंत सिंह ठाकुर जी ने “गूगल साईट्स निर्माण” की प्रक्रिया को बहुत ही सरल तरीके से उसके एक-एक फंक्शन के बारे में बताते हुए बनाकर दिखाया गया। उनके द्वारा प्रतिभागियों की शंकाओं का समाधान भी प्रत्यक्ष रूप से प्रयोग कर किया गया।

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)

26. Dr. Neeraj Upmanu, Registrar, NIPER, Hajipur, Vishali, is conducted on topic entitled –
(1) & (2) “Creating MOOCs: An Innovative Teaching Learning Tool creating MOOCs: An Innovative Teaching Learning Tool”
& “Online Education and Learning: SWAYAM and other Platform”

Respected sir started his discussion by giving detailed information about MOOC and SWAYAM. After this, he also explained the process to make course for MOOCs and if course is accepted, then it is also very important to effectively keep your course among the trainees explained with examples.

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DAY 12**Session I (10.30-12.00) & Session II (12.15-13.45)**

27. Prof. Sanjay Tiwari, SOS in Electronics and Photonics, Pt. Ravishankar Shukla University Raipur, is conducted on topic entitled –

(1) “Effective ICT-based Teaching Learning tools for Education Technology” Professor Sanjay Tiwari provided important

information on this topic. He has inculcated us about some powerful tools like SLIDEATOR, MENTY, MENTY-METER, and Microsoft PowerPoint. These are applied to teaching and learning environments. It is also beneficial to enhance our skills for interactive and attractive classes.

(2) “Technology Reforming Education and Skill Development”

Prof. Sanjay Tiwari has given in-depth explanations to the participants about this topic. He delivered a splendid lecture about ICT-based tools like **CAHOOT, LD MULTIPLAYER, and PEDLET**. He also teaches us how to access these tools. It is very useful for all the participants for skill development.

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)

28. Dr. Madhuri Hooda, Department of Education, Maharshi Dayanand University, Rohtak, is conducted on topic entitled –

(1) “E-Content Development (Script Writing, Shooting)” Dr.

Madhuri Hudda gave a detailed and excellent explanation of this topic. She gave us knowledge about How to Inputs for Course Design. We inlighten in her lecture about some free versions of browser-based add-on software like ScenCastify, Screen Castometric, Loom, etc., how to use this software for educational purposes and develop PPT, introductory video, and full-length lectures using loom software.

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(2) **“ICT-based exercise”** We learn some education tools which one best is Prezi. Prezi has three main sections, Prezi Present, Presi Design, Prezi Video. She taught us how to install, access, design, and develop PPT, Video, and Brosher for interactive Teaching and Learning. She patiently replies to participants' questions.

DAY 13**Session I (10.30-12.00) & Session II (12.15-13.45)**

29. Dr. Madhusudan J.V., Associate Professor, Department of Education and Education Technology, School of Social Sciences, University of Hyderabad, is conducted on topic entitled

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(1) **“Managing and Customizing course in Moodle”** In the lecture, he guided all the participants about designing course in the moodlecloud site and it's use in the teaching-learning process. He taught all participants to create their own moodlecloud account.

(2) **“Logs and Analytics in MOODLE”** Dr. Madhusudan informed all the participants about how to add different study materials in the moodlecloud account created by them. He guided about different activities and resources in moodle site such as how to add a new page with audio, video and other tools. He guided about the use of various activities and resources in the moodlecloud site such as Assignment, Forum, Label, Book, BigBlueButton, Quiz, Chat etc. He encouraged all the participants to make more practice on moodlecloud site, so that they can have efficiency in handling the moodlecloud site. He also shared youtube link for better understanding of different activities and resources in moodle cloud site.

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Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)

30. Prof. Shefali Nagpal, Director, UGC HRDC, Bhagat Phool Singh Mahila Vishwavidyalaya Sonapat, is conducted on topic entitled –

(1) & (2) “Citation and referencing, IPR and copyright issues”

Prof. Shefali Nagpal delivered a lecture on Strategic Planning in Teaching-Learning Process. In the lecture, she guided on what strategies and planning we should have for accomplishing different activities related to our curriculum and for the development of the institution in which we work. She guided on how to tackle various problems, which we face during our teaching profession. She explained different aspects of National Education Policy 2020. She informed about different kind of preparations we should have, while implementing National Education Policy 2020 at institutional level. She motivated all the participants to carry out their duties as teachers with utmost devotion and impart value based education among the students, so that they will have larger contribution in nation building. She explained the process of Intellectual Property Rights and Copy Rights and informed participants about different laws related to them. Due to time limitations, she briefly explained various issues related to citation and referencing. She also explained what we have to do in order to avoid plagiarism.

DAY 14**Session I (10.30-12.00) & Session II (12.15-13.45)**

31. Prof. Rekha Aacharya, School of Economics DAVV, Indore (M.P), is conducted on topic entitled –

(1) & (2) “Work Life Imbalance and its consequences” & “Handling Different Types of Children”

She discussed about the Work Life Imbalance and its consequences. Madam brought out the Imbalances and Balances of life and how we can overcome from Imbalance of life by proper

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planning and positive attitude. She also discuss in her speech to set our goal, keep diary, know our work, ask ourselves and focusing on the benefit of the change not problem then only we can make our life Balancing. In the second session madam was discuss how to handle different kind of children in the society as well as the educational institution. It definitely a big challenge to handling of big heterogeneous group in the institutional, from her discussion we could understand about the various types of Exceptional students, God gifted students, Special students and also the normal children. We learn from this session how to give the corrective learning to the child and as well as students.

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)



32. Prof. J.C. Ajawni, Rtd. Professor, Govt. Girls Degree College, Devendra Nagar Raipur, is conducted on topic entitled – (1) & (2) “Psychotherapy and Counselling” & “Counselling strategies for better personal and class adjustment”

Sir talked about the Psychotherapy and counseling of the people from the stress and anxiety. He believed that in this pandemic situation all the people are really under stress, so Psychotherapy and Counseling impact gravely on the lives of individuals, families and communities. He expresses his session about Intra personal Emotional awareness, IQ, EQ, Self Actualizations, Interpersonal Dimension of Emotion, Stress management, Mood management, and he also said Karma is the main self-actualization.

DAY 15

Session I (10.30-12.00) & Session II (12.15-13.45)



33. Dr. Rama Devi Pani, AIU, New Delhi, is conducted on topic entitled – (1) & (2) “Personality and its defining characteristics, Assessment of personality”

She elaborated about Personality and Personality traits in detail, and encouraged the participants to be aware of their own personality and to take care of the personality development of their students.

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Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)

34. Prof. Ashutosh Biswal, Department of Education, MS University Baroda Vadodara (Gujarat), is conducted on topic entitled – (1) & (2) “Nature and type of adjustment problems: Academic, Emotional and social”

In a very dexterous way, Prof. Biswal illuminated on adjustment issues. He used a number of ppt. slides to elaborate his points. His lecture was quite lucid and comprehensible.

DAY 16**Session I (10.30-12.00) & Session II (12.15-13.45)**

35. Prof. (Dr.) Vipul Vyas, Visiting Faculty, IRMA Director, Mann - The Mind, Mumbai, is conducted on topic entitled – (1) & (2) “Power of Emotional Intelligence in Work and Life”

Sir has delivered very relevant lecture on Emotional Intelligence and interacted with the participants. He relates the topic with real life example like he said by applying intelligence quotient one can get a job but by applying emotional intelligence one can achieve promotion in his service life. He further discussed about the emotional intelligence in details. He said about the emotional intelligence model and the model has four major components i.e., i) Self-awareness ii) Self-Management iii) Social awareness and iv) Relationship development. He also discussed eight basic emotions.

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)

36. Anurima Roy, Publisher and Chief Editor, Harper Collins Publishers India New Delhi, is conducted on topic entitled – (1) & (2) “Mentorship” & “21st Century Skills”

From her illuminating speech we came to know about how to mentor students in our colleges and universities. She also said in her speech “Mentoring goes beyond teaching. This is where you transform a

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student from getting a degree for a job or learning for life". And also she added saying "Mentoring is building relationship with students, identifying where they went wrong or disconnected, reconnecting them when they lose focus. At the end of the session chairperson and also other participants thanked her for delivering such an informative lecture.

DAY 17

Session I (10.30-12.00) & Session II (12.15-13.45)



37. Prof. S.K. Jadhav, SOS in Biotechnology, Pt. Ravishankar Shukla University, Raipur, is conducted on topic entitled – (1) & (2) "Seminar Presentation"

we had seminar on module-5. All the participants presented their seminar one by one, which was evaluated by Prof. S.K. Jadhav sir. After the seminar he had given some suggestions to develop the skill of presenting seminar paper. At the end of the session chairperson and also other participants thanked Prof. S.K. Jadhav for evaluation our seminar.

Session III (14.15 to 15.45)



38. Prof. Rajeev Chaudhari, SoS in Physical Education, Pt. Ravishankar Shukla University, Raipur, is conducted on topic entitled – (1) "Basics of Research"

तृतीय सत्र:- तृतीय सत्र दोपहर 2:30 बजे शुरू हुआ। जिसमें स्रोत व्यक्ति के रूप में प्रो. राजीव चौधरी सर जी उपस्थित रहे। उन्होंने बेसिक ऑफ रिसर्च विषय पर प्रतिभागियों के साथ चर्चा करते हुए अनुसंधान के अर्थ, समस्या खोज से समाधान तक, तथा अनुसंधान के वर्गीकरण पर विभिन्न उदाहरणों के जरिये प्रकाश डाला। प्रतिभागियों के शंकाओं का भी सकारात्मक समाधान प्रो. राजीव चौधरी सर द्वारा किया गया।

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Session IV (16:00 to 17:30)

39. Dr. Ajazuddin, School of Pharmacy and Technology Management, SVKM'S NMIMS Deemed-to-be-University, Shirpur, Maharashtra, is conducted on topic entitled –

(1) “Quantitative, Qualitative and mixed method of research”

चतुर्थ सत्र:- चतुर्थ सत्र का आरम्भ अपराह्न 4:00 बजे हुआ। इस सत्र में स्रोत व्यक्तित्व के रूप में डॉ.अजाजुद्दीन सर मौजूद रहे। सर ने मात्रात्मक, गुणात्मक और मिश्रित अनुसंधान पर चर्चा करते हुए, उनमें अंतर और इन अनुसंधान प्रक्रियाओं को पहचानने के तरीको को विभिन्न उदाहरणों के जरिये सारगर्भित तरीके से समझाया। अंत में सर द्वारा प्रतिभागियों के शंकाओ का समाधान कर उनका मार्गदर्शन भी किया गया।

DAY 18**Session I (10.30-12.00) & Session II (12.15-13.45)**

40. Dr. Prashant Srivastava, Dept. of Geology, Govt. Science College, Durg, is conducted on topic entitled –

(1) “Professional Development and quality Education- Need of the Hour” In this session Prof. Srivastava elaborately discussed about the importance of quality education, personal development and coping up with updates.

(2) “bridging the gap between teaching and research and importance of staying updated for quality education” His takes on modern educational system, quality management and research were thought provoking and as he rightly mentioned “need of the hour”

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Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)

41. Prof. Bhaskar Mukherjee, Department of Library and Information Science, BHU, Varanasi, is conducted on topic entitled – (1) & (2) “Software tools for research and for plagiarism check”

At the first part Prof. Mukherjee shared his knowledge about different software tools related to research, various aspects of paper publication and accessing journals. In the later part, he discussed about the importance of accessing online libraries, open access journals, referencing and most importantly the aspect of plagiarism along with its various types. In his discussion he also shed light on the path of avoiding plagiarism. All the while, he demonstrated different websites, software and plagiarism checking tools. It was an experience of a lifetime for us.

DAY 19**Session I (10.30-12.00) & Session II (12.15-13.45)**

42. Prof. Rajeev Chaudhari, SoS in Physical Education, Pt. Ravishankar Shukla University, Raipur, is conducted on topic entitled – (1) & (2) “Statistical tools to conduct quantitative and qualitative research” & “Research Ethics”

Prof. Chaudhari explained the meaning of research and the process and activities involved therein. He classified research on the basis of methodology and explained Statistical tools to conduct quantitative and qualitative research.

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)

43. Dr. Amrendra Pani, AIU, New Delhi, is conducted on topic entitled –

(1) & (2) “Fundamental of Strategic and Transformational leadership” & “Different kinds of leadership – results- oriented leadership, creative leadership, leading for creative results”

He explained through the example of Prof. P.K. Khosla, Vice Chancellor Palani University, Shalon, Himachal Pradesh provided lively information of

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proper leadership potential. The information given by him was very beneficial for enhancing the knowledge of the participants by providing detailed and useful information about the qualities of a good teacher and academic leadership.

DAY 20

Session I (10.30-12.00)



44. Dr. Amit Alexander, Associate professor, National Institute of Pharmaceutical Education and Research NIPER, Gauhati, is conducted on topic entitled – (1) “Software tools for research and for plagiarism check: Latex, Bibliographic, End Note, Bib Tex, Turnitin, Statistical, other open-sources tool: data in the public domain”

In his lecture, sir provided detailed information about research, providing information related to journals, also explained the difference between book and journal. He provided information about Science Citation Index (SCI) and SCOPUS. While providing information regarding Plagiarism, he advised to avoid it. Some information was also given about some software to check plagiarism.

Session II (12.15-13.45) & Session III (14.15 to 15.45)



45. Prof. Aruna Palta, Vice Chancellor, Hemchand Yadav University Durg, is conducted on topic entitled – (1) & (2) “Conducting Discipline-specific Research: planning, and writing a research proposal, funding opportunities, involving students in research” & “Preparing to become a PhD guide: roles and responsibilities”

In her speech respected VC madam highlighted different aspects of Discipline specific Research and also how research proceeds differently according to discipline, type of resource and also by choosing the right tools and methodologies. Apart from this, Professor Palta discussed in great details about the research project proposal, the skills required and also how to develop such proposal.

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Session IV (16.00 to 17.30)

46. Prof. S.K. Jadhav, SOS in Biotechnology, Pt. Ravishankar Shukla University, Raipur, is conducted on topic entitled – (1) “Research (A Voyage of Discovery)”

चतुर्थ सत्र के विषय-विशेषज्ञ प्रो एस के जाधव सर ने शोध की प्रेरणा , शोध के प्रकार , शोध प्रविधियों का चुनाव , रिपोर्ट लेखन की बारीकियां आदि के विषय में महत्वपूर्ण जानकारी एवं सुझाव साझा किया। साथ ही शोध में साहित्य-समीक्षा की जरूरत को रेखांकित किया।

DAY 21**Session I (10.30-12.00)**

47. Prof. K.R. Hari, SoS in of Geology & WRM PRSU, Raipur (C.G.), is conducted on topic entitled – (1) “Project Presentation”

Under his chairmanship all the participants gave information about their research proposals in the stipulated time. After the project proposal Prof. K.R. Hari encouraged all the participant by giving necessary suggestions related to the research proposal.

Session II (12.15-13.45)

48. Prof. Bhaskar Mukherjee, Department of Library and Information Science. BHU, Varanasi, is conducted on topic entitled – (1) “Predatory journal or predatory practice - which to be controlled”

Prof. Mukherjee explained the different types of journals and their peer reviews and access. He also informed the participant about the predatory journal and told that there is no review in it. Where to stay away from this type of journal. Further, he also told some ways by which one can avoid this type of journal.

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Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)

49. Prof. Shalini Lihitkar, Department of Library and Information Science, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, is conducted on topic entitled –

(1) & (2) “Emerging profiling tools to enhance research visibility” & “Use of Reference management tools to avoid violation of publication ethics”

Madam explained in detail how research papers can be uploaded in their account and shared multiple information about publication with trainees.

DAY 22**Session I (10.30-12.00) & Session II (12.15-13.45)**

50. Dr. Superna Sen Gupta, Pt. Ravishankar Shukla University, Raipur (C.G.), is conducted on topic entitled –

(1) & (2) “Academic Integrity Academic Integrity and Consequences of Academic Integrity Breaches”. & “Honor Code and Honor Pledge”

To which Sir said that having academic integrity is important because it can provide your peace of mind that you are doing the right thing. Acting with integrity can reduce the stress in your life, helping you to be happy, healthy and very well. Incidents of academic dishonesty happen because students do not know the right way to do something. To avoid academic dishonesty, you may be asked to take an honor pledge before all of your students take exams or submit assignments.

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)

51. Dr. Akhtar Parvez, University Librarian Maulana Azad National Urdu University Hyderabad (Central University) (Telangana), is conducted on topic entitled –

(1) & (2) “Ethics and Challenges in Academic Matter”

You all should know that research promotes ethical and social values, such as social responsibility, and public health and safety.

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Lack of ethics in research harms students and our society. Recognizing the importance of ethics to the conduct of research, it should come as no surprise that many different universities have adopted specific codes, rules.

DAY 23

Session I (10.30-12.00) & Session II (12.15-13.45)



52. Prof. Ninad Bodhankar, SoS in of Geology & WRM Pt. RSU Raipur, is conducted on topic entitled – **(1) “Microteaching”**

All the 34 participants gave their microteaching on various topics related to module - 07 one after another. After this Prof. Bodhankar made a brief analysis of microteaching and gave necessary suggestions to the participants.

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)



53. Dr. K. Subramaniam, Rtd. IFS, CG, is conducted on topic entitled –

(1) & (2) “Human Rights and Fundamental Duties”

About which Sir very simply and easily shared the deep information and talked about how HUMAN RIGHTS was started and how it was declared all over the world. Then explained in detail about what was placed in Part 3 of our Indian Constitution. After that in the fourth lecture, HUMAN RIGHT explained about the legal provisions of all the ARTICLES and FUNDAMENTAL Duties by giving various examples

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DAY 24**Session I (10.30-12.00) & Session II (12.15-13.45)**

54. Prof. Kiran Gardner, Professor, Dean Alliance University, Bangaluru (Karnataka), is conducted on topic entitled –

(1) & (2) “Discrimination on the basis of caste, class and gender in classroom”

About which Madam first told the meaning of Discrimination. And shared in- depth information in detail about the discrimination done by the teachers on the basis of caste, on the basis of class and on the basis of gender within the classroom. During the lecture, all the questions asked by the participants were answered in practical language. And also simply and easily explained about the legal provisions given in the constitution.

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)

55. Prof. Vijay Kumar Singh, Professor Dean UPES, Dehradun, is conducted on topic entitled – (1) & (2) “Constitutional Values” & “Impact on Education Domain of constitutional values”

At the beginning of his lecture, he read the Preamble of the Constitution in both Hindi and English, after giving detailed information on the values contained in the Preamble of the Constitution, He inspired all the participants to explain it to the university and college students as well.

DAY 25**Session I (10.30-12.00) & Session II (12.15-13.45)**

56. Prof. Kiran Rai, Associate Professor Maharashtra National Law University Mumbai (Maharashtra), is conducted on topic entitled – (1) & (2) “Role of education in creating a more equal and just Society” & “Anchoring professional ethics in universal values”

Madam said that values form the basis of all our thoughts,

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behavior and actions. As soon as we know what is valuable to us, these values become the basis of our actions. She said that we all also need to understand the universality of various human values, because only then we can have a definite and general program for value education in our institution. Only then we can be sure of a happy and harmonious human society.

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)



57. Prof. Ninad Bodhankar, SoS in of Geology & WRM Pt. RSU Raipur, is conducted on topic entitled – (1) “Group Discussions”

Under his guidance, all the 17 groups had group discussions on various topics related to module 8 at the stipulated time. After the group discussions, respected Prof. Ninad sir while praising the participants said that new information was received from the discussion of all of you. He said that all of you should take the determination of your subject seriously.

DAY 26

Session I (10.30-12.00) & Session II (12.15-13.45)



58. Prof. Rajesh Kumar Dubey, Professor, HRDC, Jodhpur University, Jodhpur, Rajasthan, is conducted on topic entitled – (1) & (2) “The need of Environmental Consciousness” & “Importance of Sustainable Development Goals”

Sir talked the development not take place on the condition that all our natural resources should be destroyed, nothing is left for our coming generation. We also need to pay attention to the fact that along with development, there is a need to pay more attention to the environment. That's why we need SDGs to set our development goals.

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Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)

59. Dr. Manu Gouraha, School of Studies in Sociology and Social Work Vikram University, Ujjain M.P., is conducted on topic entitled – (1) & (2) “How to achieve social justice” & “Concept to improvise the social and educational standards”

Sir, while explaining social justice and its essential goals, where social justice cannot be achieved without these goals. In the end, Sir while discussing with all the participants about the ways to improve the social and educational standards, the participants also enthusiastically shared their views and discussed with Sir.

DAY 27**Session I (10.30-12.00)**

60. Prof. Rajeev Chaudhari, SoS in Physical Education, Pt. Ravishankar Shukla University, Raipur, is conducted on topic entitled – (1) “Essentials for good Health and well being”

During the session Prof. Chaudhary discussed that happiness will come only when we are healthy and fit. He said that our bodies and minds are not separate, it is no surprise that mental illness can affect your body. For example, depression can come with headaches, fatigue and digestive problems, with other symptoms including insomnia, restlessness and difficulty concentrating. Therefore, we should pay attention to our physical health as well as mental health.

Session II (12.15-13.45)

61. Prof. Aruna Palta, Vice Chancellor, Hemchand Yadav University Durg, is conducted on topic entitled – (1) “Diet and Stress”

She explained the various aspects such as we are what we eat, stress and eating pattern, food that harmful, restrict your sugar, eat less salt, limit fat intake, removing pesticides from fruits and

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vegetables, removing pesticides from animal food and milk, balanced diet, eat lots of fiber and importance of Diet and Stress

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)



62. Prof. Rajesh Kumar Dubey, Professor, HRDC, Jodhpur University, Jodhpur, Rajasthan, is conducted on topic entitled – **(1) & (2) “Necessity of SDG for a better society”**

While explaining the SDGs completely, you have also explained its essential component and said that all of us teachers also have to pay attention to it so that we can achieve our goal by 2030 because for two years Corona has also affected us. Sir again said, if we really want to pursue the Sustainable Development Goals, then there is a need for aware persons in different areas of the world, who are able to train others in this regard.

DAY 28

Session I (10.30-12.00)



63. Dr. Nitin Malik, Registrar, Dr. B.R. Ambedkar University Delhi, is conducted on topic entitled – **(1) “Understanding work planning and its management”**

प्रथम सत्र :- प्रथम सत्र का प्रारंभ प्रातः 10.30 पर हुआ। जिसमें प्रख्यात शिक्षाविद् आदरणीय डॉ. नितिन मलिक सर के द्वारा वर्तमान परिपेक्ष्य में “वर्क प्लानिंग और इसके मैनेजमेंट की समझ” विषय पर बहुत ही सरल व सहज तरीके से बताया कि शिक्षक एडमिनिस्ट्रेशन और छात्रों के बीच का पुल होता है। साथ ही वि.वि. व महाविद्यालयों जैसी संस्थाओं में मैनेजमेंट की आवश्यकता, शैक्षणिक संस्थाओं के विजन और मिशन का निर्धारण व इसमें अंतर को भी बहुत ही सहज तरीके से बताया गया।

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Session II (12.15-13.45)

64. Prof. Anand Vardhan Sharma, Sofia University, Bulgaria, is conducted on topic entitled – (1) “Dynamic status of faculty members”

द्वितीय सत्र :- द्वितीय सत्र की शुरुआत दोपहर 12.15 बजे हुआ। जिसमें रिसोर्स पर्सन के रूप में आए आदरणीय प्रो. आनन्द वर्धन शर्मा सर जी के द्वारा “डायनामिक स्टेटस ऑफ फैकल्टी मेम्बर्स” विषय पर चर्चा करते हुए बताया कि एक अध्यापक को कैसा होना चाहिए ? उसे एक अध्यापक होने से पहले एक विद्यार्थी होना पड़ेगा, तभी वो अपने विद्यार्थियों को समुचित ज्ञान प्रदान कर पायेंगे। अध्यापको को सदैव अध्यापन के समय नित नये नवाचारों का प्रयोग कैसे करना चाहिए? विभिन्न उदाहरणों के माध्यम से बहुत ही सरल तरीके से बताया गया।

Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)

65. Dr. K. Subramaniam, Rtd. IFS, CG, is conducted on topic entitled –

(1) & (2) “ Strategic Planning: Indian Economy Post Covid” & “Causes and Effects of Indian Economy in Post Covid situation”

Subramaniam Sir, while highlighting the relevant issues and the roadmap ahead in the moment of the COVID-19 pandemic, said that the pandemic has affected human lives and economies across the world. Some integrated policies for economic, social and environmental objectives are needed to respond to this crisis. The ongoing vaccination campaign in our country removes the fear of COVID-19 and our hopes of economic revival are getting stronger.

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DAY 29**Session I (10.30-12.00)**

66. Prof. Shailendra Saraf, Director, HRDC, Pt. RSU, Raipur, C.G., is conducted on topic entitled – **(1) “ Roadmap of excellence from vision strategy”**

He informed all the participants about vision, mission and strategic plan of institutions. He explained what kind of strategic planning is required for institutional development. He clarified the five pillars system (i.e. Context, structure, process, outcome, impact) required for institutional development. He informed about socially accountable education. He motivated all the participants to be involved in quality research which can contribute to the society.

Session II (12.15-13.45) & Session III (14.15 to 15.45)

67. Dr. Vani Subramanyam, Rtd. Principal, Maitri College, Bhilai (C.G.), is conducted on topic entitled – **(1) & (2) “Microteaching”**

Under her guidance of all the 34 participants gave their microteaching on various topics related to module - 10 respectively. After this Dr. Vani made a brief analysis of microteaching and gave necessary suggestions to the participants and congratulate all the participant for successfully completing 30 days FIP program.

Session IV (16.00 to 17.30)

(FINAL TEST) - All the 34 participants gave their Ending Test on Faculty Induction Program related to all module respectively

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DAY 30**Session I (10.30-12.00)**

68. Dr. Swarnlata Saraf, University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur, is conducted on topic entitled “Preparing vision/mission document, state and institutional level strategic plan”

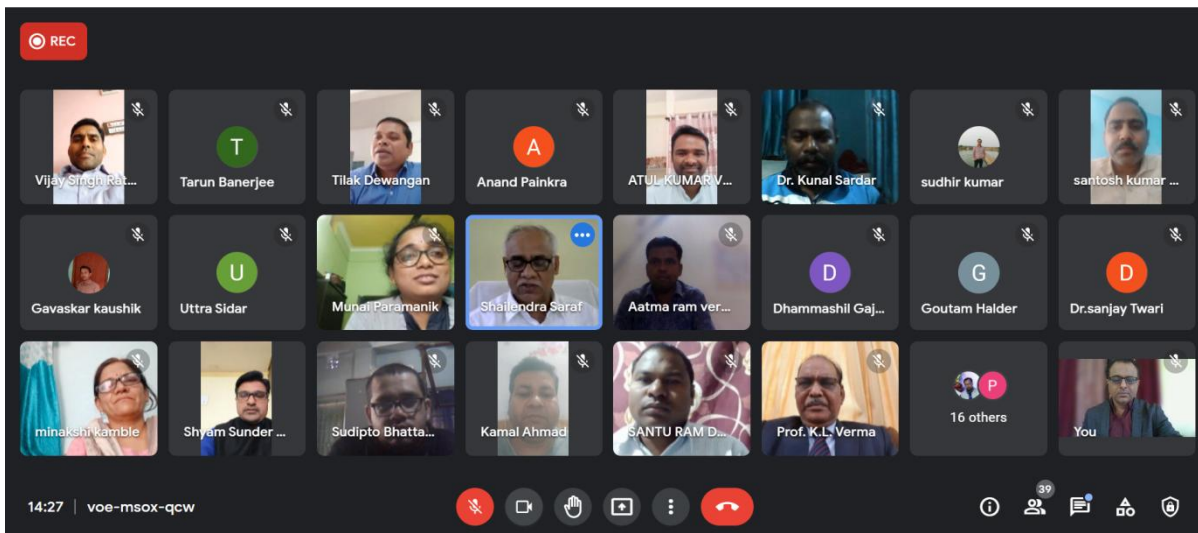
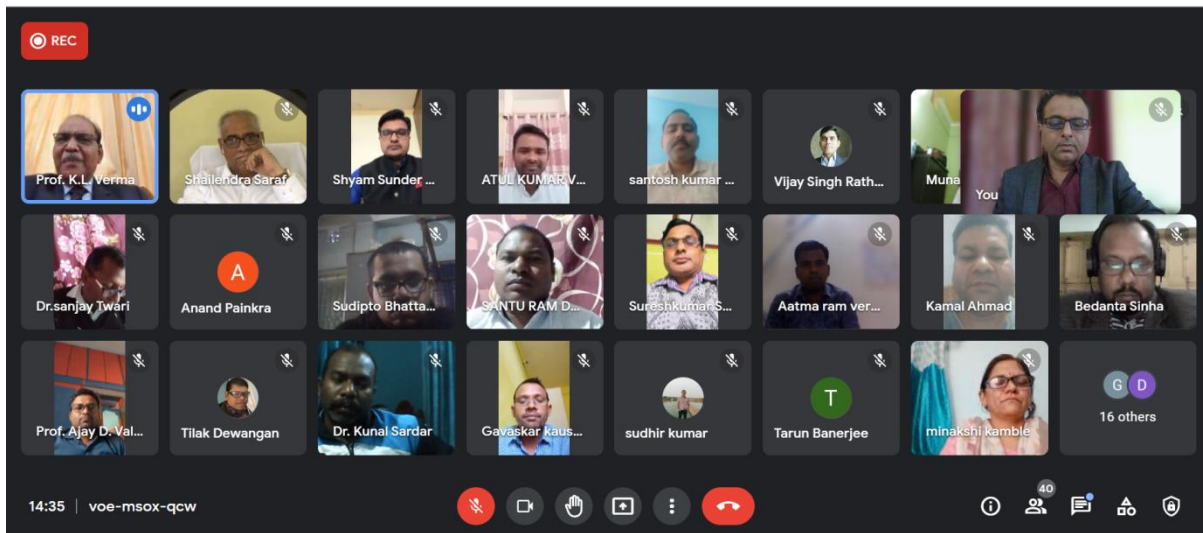
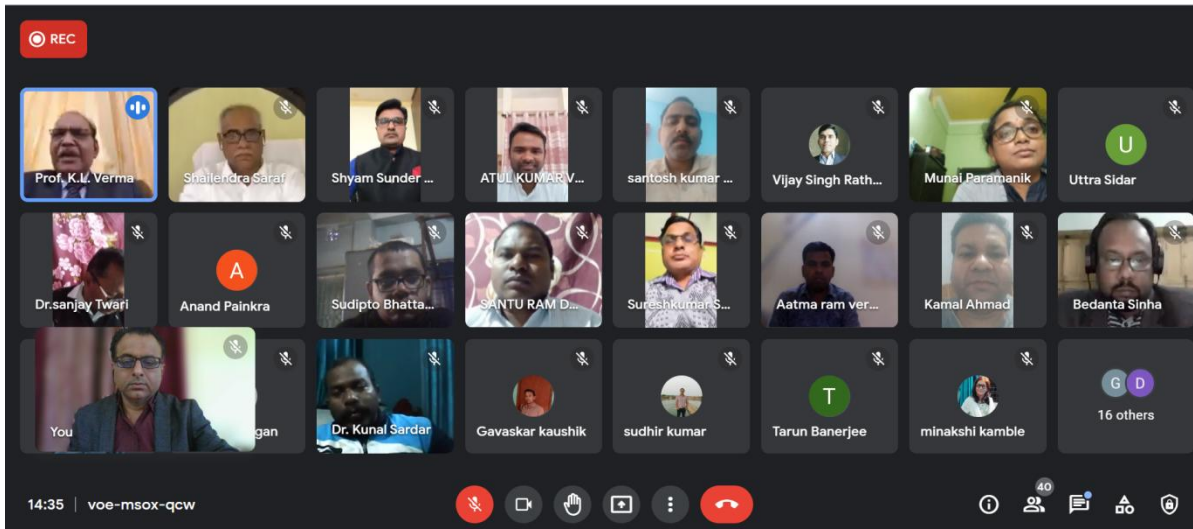
Madam explained in detail about all the stages of writing the vision, mission and value statement and its requirement in the institute.

Regarding the Good Vision Statement, She said that it is written in the present, which explains your goals and objectives for a particular period. In a world where technology, teaching pedagogy, sophistication of equipment etc. keep on changing rapidly, hence the strategic planning of the university needs to be dynamic.

Session II (12.15-13.45)**Feedback of Participants****Session III (14.15 to 15.45) & Session IV (16.00 to 17.30)****Valedictory**






On the last day of the Faculty Induction Program, the special guest of the concluding session **Prof. K.L. Verma, Vice Chancellor, PRSU, Raipur (C.G.)** presided over by **Prof. Shailendra Saraf, Director, HRDC, PRSU, Raipur (C.G.)** and **Dr. Brijendra Pandey, Assistant Professor, HRDC, PRSU, Raipur (C.G.)** Course Coordinator were present. The special guest and the chairman gave their brief speeches and after receiving feedback from the participants they wished them for their bright future. In the end Dr. Brijendra Pandey Course Coordinator gave the vote of thanks.

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Faculty Induction Program (FIP) - 03**(12.01.2022 to 17.02.2022)****Course Coordinator – Dr. Brijendra Pandey****List of Participants**

Sr. No.	Name of Participant	Photo	Email	Mobil No.	Designation	Subject	College	Name of the affiliating University
01.	Gavaskar Kaushik		agkaushik13@gmail.com	9630199898	Assistant Professor	Hindi	Govt. Shaheed Bapurao P.G. College, Sukma, (C.G.)	Shaheed Mahendra Karma Vishwavidyalaya, Bastar, Jagdalpur, (C.G.)
02.	Suresh Kumar Shakre		sureshkumarshakre@gmail.com	7389762969	Assistant Professor	Geography	Dr. Shakrajit Nayak Govt. College, Baramkela, Raigarh, (C.G.)	Shaheed Nandkumar Patel Vishwavidyalaya, Raigarh, (C.G.)
03.	Munai Paramanik		munaikundu02@gmail.com	7407230302	Assistant Professor	Political Science	Balarampur College, Purulia, (W.B.)	Sidho-Kanho-Birsha University, Purulia, (W.B.)
04.	Dr. Sanjay Kumar Tiwari		twari8046@gmail.com	9166084379	Assistant Professor	Hindi	SMT. Lad Devi Sharma Pancholi Adarsh Sanskrit Mahavidyalaya, Barundani Bhilwara, Rajasthan	Jagadguru Ramanandacharya Rajasthan Sanskrit University, Jaipur, Rajasthan
05.	Dr. Kunal Sardar		kunalnapara@gmail.com	8768962686	Assistant Professor	Physical Education	Siddhinath Mahavidyalaya, S.S. Patna, Panskura, Purba Midnapore, (W.B.)	Vidyasagar University, Midnapore, (W.B.)
06.	Dr. Minakshi Madhukar Kamble		minakshimilind6@gmail.com	9822947050	Assistant Professor	Home Science	Arts, Commerce & Science College, Maregaon, Dist-Yavatmal, (M.H.)	Sant Gadge Baba Amravati University, Amravati, (M.H.)
07.	Vijay Singh		vsrathore24@gmail.com	9610977609	College Librarian	Library Science	SLDSP Adarsh Sanskrit Mahavidyalaya, Barundani, Dist-Bhilwara, Rajasthan	Rajasthan Sanskrit University, Jaipur, Rajasthan
08.	Aatma Ram Verma		a.r.verma.09@gmail.com	09691722138	Assistant Professor	Chemistry	Shashidhar Panda Govt. College, Sariya, Dist-Raigarh, (C.G.)	Shaheed Nandkumar Patel Vishwavidyalaya, Raigarh, (C.G.)
09.	Tarun Banerjee		tarunbanerjee.dmt@gmail.com	9826175136	Assistant Professor	Political Science	Govt. Naveen College, Aamdi, Dist-Dhamtari, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
10.	Tilak Chandra Dewangan		tilakdewanganankondagaoon@gmail.com	7693917363	Assistant Professor	Sociology	Govt. Naveen College, Tokapal, Jagdalpur, (C.G.)	Shaheed Mahendra Karma University, Bastar, Jagdalpur, (C.G.)
11.	Hiren Devchandbhai Kakadiya		hirenkakadiya82@gmail.com	9377752703	Assistant Professor	History	Govt. Arts and Commerce College, Fort Songadh, Dist-Tapi, Gujarat	Veer Narmad South Gujarat University, Surat, Gujarat

(12/01/2022 to 17/02/2022)

Sr. No.	Name of Participant	Photo	Email	Mobil No.	Designation	Subject	College	Name of the affiliating University
13.	Bedanta Sinha		bedanta555@gmail.com	9932225411	Assistant Professor	Political Science	Raghunathpur College, Purulia, (W.B.)	Sidho-Kanho-Birsha University, Purulia, (W.B.)
14.	Shyam Sunder Tiwari		sstiwari1978@gmail.com	9685201170	Assistant Professor	Physics	Govt. Engineer Vishwesarraiya P.G. College, Korba, (C.G.)	Atal Bihari Bajpayee University, Bilaspur, (C.G.)
15.	Kiran Singh		kiransinghraj09@gmail.com	9406112699	Assistant Professor	Sociology	Kirodimal Govt. Arts & Science College, Raigarh, (C.G.)	Shaheed Nandkumar Patel Vishwavidyalaya, Raigarh, (C.G.)
16.	Uttara Kumar Sidar		uksidar4@gmail.com	7747997676	Assistant Professor	Hindi	Kirodimal Govt. Arts & Science College, Raigarh, (C.G.)	Shaheed Nandkumar Patel Vishwavidyalaya, Raigarh, (C.G.)
17.	Goutam Halder		minugoutam01@gmail.com	9339567871	Assistant Professor	History	Sir Gurudas Mahavidyalaya, Kolkata, (W.B.)	Calcutta University, Kolkata, (W.B.)
18.	Smt. Sunita Ganesh Joshi		smtsunitajoshi@gmail.com	7746914224	Assistant Professor	Commerce	Govt. Gajanan Madhav Muktibodh College, Sahaspur- Lohara, Dist- Kabirdham, (C.G.)	Hemchand Yadav University, Durg, (C.G.)
19.	Ajaybhai Dipakbhai Valvi		valviajay320@gmail.com	9712272025	Assistant Professor	Sociology	Govt. Arts College, Santalpur, Dist-Patan, Gujarat	Hemchandracharya North Gujarat, University, Patan, Gujarat
20.	Atul Kumar Verma		atul9580736305@gmail.com	09415248896	Assistant Professor	Political Science	Govt. Naveen College, Janakpur, Korea, (C.G.)	Sant Gahira Guru University, Sarguja, Ambikapur, (C.G.)
21.	Sudhir Kumar Agrahari		sudhiragrahari04@gmail.com	8299710834	Assistant Professor	Political Science	Govt. Danteshwari P.G. College, Dantewada, (C.G.)	Shaheed Mahendra Karma University, Bastar, Jagdalpur, (C.G.)
22.	Piri Singh Thakur		thakurpirisingh@gmail.com	8889770058	Assistant Professor	Economics	Govt. Danteshwari P.G. College, Dantewada, (C.G.)	Shaheed Mahendra Karma Vishwavidyalaya, Bastar, Jagdalpur, (C.G.)
23.	Dr. Kamal Ahmad		kamalahmad26@gmail.com	9852945232	Assistant Professor	Hindi	Ganga Singh College, Chapra, Bihar	Jai Prakash University, Chapra, Bihar
24.	Jasram Nayak		jasramnayak073@gmail.com	8889743308	Assistant Professor	Hindi	Govt. Ghanshyam Singh Gupta P.G. College, Balod, (C.G.)	Hemchand Yadav University, Durg, (C.G.)
25.	Sudipto Bhattacharjee		slg00sudipto@gmail.com	9476296853	Assistant Professor	Mathematics	Krishna Chandra College, Birbhum, (W.B.)	The University of Burdwan, Bardhaman, (W.B.)

Course Coordinator - Dr. Brijendra Pandey

HRDC, Pt. Ravishankar Shukla University, Raipur (C.G.)

E-mail: brijpandey09@gmail.com

(12/01/2022 to 17/02/2022)

Sr. No.	Name of Participant	Photo	Email	Mobil No.	Designation	Subject	College	Name of the affiliating University
26.	Dr. Kavita Chahal		kavitachahal18@gmail.com	8989509189	Assistant Professor	Botany	Govt. College Bichhua, Chhindwara, (M.P.)	Raja Shankar Shah University, Chhindwara, (M.P.)
27.	Santu Ram Darro		santuramdarro0@gmail.com	9425593912	Assistant Professor	Geography	Govt. Sukhram Nage College, Nagri, Dist-Dhamtari, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
28.	Dr. Santosh Kumar Singh		sksinghbhu1987@gmail.com	9450569276	Assistant Professor	Hindi	Ganga Singh College, Chapra, Bihar	Jai Prakash University, Chapra, Bihar
29.	Yogendra Kumar		yogendrapatel.1936@gmail.com	7646952004	Assistant Professor	Economics	Govt. Swami Atmanand P.G. College, Narayanpur, (C.G.)	Shaheed Mahendra Karma University, Bastar, Jagdalpur, (C.G.)
30.	Smt. Susanna Lakra		lakras309@gmail.com	9584429978	Assistant Professor	Hindi	Govt. Naveen College Chandani Biharpur, Dist-Surajpur (C.G.)	Sant Gahira Guru University, Dist-Sarguja, Ambikapur, (C.G.)
31.	Raj Kumar Singh		rs36499@gmail.com	9926330064	Assistant Professor	History	Govt. College, Jaithari Dist-Anuppur, (M.P.)	Awdhesh Pratap Singh University, Rewa, (M.P.)
32.	Dhammashil Charandas Gajbhiye		dhammashil.gajbhiye1981@gmail.com	7304315073	Assistant Professor	English	Late N.P.Waghaye Arts and Science College, Soundad, Tal. Sadak/Arjuni, Dist.-Gondia, (M.H.)	Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur, (M.H.)
33.	Sangeeta Pandey		ranusangeeta22@gmail.com	7587049855	Assistant Professor	Hindi	Holy Cross Women's College, Ambikapur, (C.G.)	Sant Gahira Guru University, Dist-Sarguja, Ambikapur, (C.G.)
34.	Anand Kumar Painkra		painkraanand@gmail.com	9165972261	Assistant Professor	Economics	Govt. Rewati Raman Mishra P.G. College, Surajpur, (C.G.)	Sant Gahira Guru University, Sarguja, Ambikapur, (C.G.)

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Faculty Induction Program (FIP) - 03
(12.01.2022 to 17.02.2022)
Course Coordinator – Dr. Brijendra Pandey
Time Table

	Session - I (10:30 to 12:00)		Session - II (12:15 to 13:45)		Session - III (14:15 to 15:45)		Session - IV (16:00 to 17:30)
First Week							
Day 01 12.01.22	Registration, Inauguration & Induction	T E A B R E A K	Lecture 1 (Module 1) Prof. Swarnlata Saraf Director University Institute of Pharmacy Pt. Ravishankar Shukla University Raipur. Current challenges and opportunities in Indian higher education - implications for the everyday classroom swamlatasaraf@rediffmail.com 9425522945	L U N C H B R E A K	Lecture 2 (Module 1) Prof. P.K. Singhal Department of Biotechnology, Rani Durgavati Vishwavidyalaya Jabalpur Status of Indian Higher Education System. pkssinghalrdvv@gmail.com 9893675065	T E A B R E A K	Lecture 3 (Module 1) Prof. P.K. Singhal Department of Biotechnology, Rani Durgavati Vishwavidyalaya Jabalpur Reforms in Indian Higher Education System. pkssinghalrdvv@gmail.com 9893675065
Day 02 13.01.22			Lecture 4 (Module 1) Dr. Neeraj Upmanu Registrar NIPER Hajipur, Vishali Schemes under UGC, ICSSR, ICHR, DBT and any other funding agencies. neerajupmanu2007@gmail.com 9425128642		Lecture 5 (Module 1) Prof. Vijay Agarwal Department of Chemistry APS University Rewa History of one's own Institute apsvka57@gmail.com 9425194556		Lecture 6 (Module 1) Prof. C.B. Sharma School of Education, Indira Gandhi National Open University (IGNOU), New Delhi. The Idea of a University cbsharma01@gmail.com 9810512605

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Day 03 14.01.22	Lecture 8 (Module 1) Prof. Arbind Kumar Jha Dean, School of Education, BB Ambedkar University, Lucknow Current Trends in Higher Education: Indian and Global perspective. drarbind1@gmail.com 8055801199; 9805701199	Lecture 9 (Module 1) Prof. Arbind Kumar Jha Dean, School of Education, BB Ambedkar University, Lucknow Understand Roles and responsibility of faculty in the university structuredrarbind1@gmail.com 8055801199; 9805701199	Lecture 10 (Module 1) Prof. Vijay Agrawal, (Dept. of chemistry) APS University Rewa University Act, Statute, Ordinances and its role and importance in governance lsnigam50@gmail.com Mobile:8819079785	Lecture 11 (Module 1) Prof. Vijay Agrawal, (Dept. of chemistry) APS University Rewa University Act, Statute, Ordinances and its role and importance in governance lsnigam50@gmail.com Mobile:8819079785
Day 04 15.01.22	Lecture 12 (Module 1) Prof. Anand Verdhan Sharma Sofia University Bulgaria Institutional Planning and Development anandsharma_64@yahoo.co.in 8208384895	Lecture 13 (Module 2) Dr. Richa Dayaramani Principal, Khyati College of Pharmacy, Ahmedabad Consideration for designing the curriculum 9825227209 richadayaramani1976@gmail.com	Lecture 14 (Module 2) Dr. S.P. Gupta Professor, Bipin Bihari College, Jhansi Comprehensive lecture on Choice Based Credit System and inculcation of Objective Test. spguptajhs@gmail.com 94150-30707	Lecture 15 (Module 2) Dr. S.P. Gupta Professor, Bipin Bihari College, Jhansi To enhance the quality building session related to Questionnaire Method. spguptajhs@gmail.com 94150-30707
Day 05 18.01.22	Lecture 16 (Module 2) Prof. C.D. Agashe SoS in Physical Education, Pt. RSU Raipur Framing curricular objectives and organisation of content cagash@yahoo.com 9425503534	Lecture 17 (Module 2) Prof. C.D. Agashe SoS in Physical Education, Pt. RSU Raipur Framing curricular objectives and organisation of content cagash@yahoo.com 9425503534	Lecture 18 (Module 2) Prof. Sudhanshu Bhushan, HOD, Higher and Professional Education, NUEPA, New Delhi. History and evolution of CBCS sudhanshu@niepa.ac.in 9873535224	Lecture 19 (Module 2) Prof. Sudhanshu Bhushan, HOD, Higher and Professional Education, NIEPA, New Delhi. CBCS and Outcome Based Learning sudhanshu@niepa.ac.in 9873535224

Day 06 19.01.22	Lecture 20 (Module 2) Dr. Richa Dayaramani Principal, Khyati College of Pharmacy, Ahmedabad Student evaluation using outcome-based learning richadayaramani1976@gmail.com 9825227209	Lecture 21 (Module 2) Prof. Ninad Bodhankar SoS in of Geology & WRM PRSU, Raipur CBCS-case studies of good implementation bninad21@gmail.com 9826515859	Lecture 22 (Module 2) Prof. S. K. Bawa Professor & Dean School of Education, Central University of Punjab Bathinda To emphasize the systematic framework of curricular objective and content building process. sk_bawa2001@yahoo.co.in 9815323035	Lecture 23 (Module 2) Prof. S. K. Bawa Dean School of Education, Central University of Punjab Bathinda To elaborate teaching learning process, pedagogical principles and assessment. sk_bawa2001@yahoo.co.in 9815323035
Day 07 20.01.22	Lecture 24 (Module 2) Dr. S.P. Gupta Professor, Bipin Bihari college, Jhansi Brain Storming spguptajhs@gmail.com 94150-30707	Lecture 25 (Module 2) Dr. S.P. Gupta Professor, Bipin Bihari college, Jhansi Brain Storming spguptajhs@gmail.com 94150-30707	Lecture 26 (Module 3) Prof. P.K. Tulsi Retd. Professor, National Institute of Technical Teachers' Training & Research, Chandigarh Assessment and Evaluation: Assessment for learning and assessment of learning pk_tulsi@yahoo.com Mob: 9814810932	Lecture 27 (Module 3) Prof. P.K. Tulsi Retd. Professor, National Institute of Technical Teachers' Training & Research, Chandigarh Assessment and Evaluation: Assessment for learning and assessment of learning pk_tulsi@yahoo.com Mob: 9814810932
Day 08 21.01.22	Lecture 28 (Module 3) Prof. Sudarshan Panigrahi Department of Education MS University Baroda Vadodara (Gujarat) Teaching strategies: constructivism, critical pedagogy and blended learning.	Lecture 29 (Module 3) Prof. Sudarshan Panigrahi Department of Education MS University Baroda Vadodara (Gujarat) Teaching strategies: constructivism, critical pedagogy and blended learning.	Lecture 30 (Module 3) Dr. CS Vazalwar Associate Prof. & Head, Dept. of Education, GGU Central University, Bilaspur (C.G.) Lesson Planning - Basic idea, logic and different types, skills and techniques for writing lesson plans	Lecture 31 (Module 3) Dr. CS Vazalwar Associate Prof. & Head, Dept. of Education, GGU Central University, Bilaspur (C.G.) Learning and the learner chandrashekharvazalwar@yahoo.com 9425223875

Course Coordinator - Dr. Brijendra Pandey

HRDC, Pt. Ravishankar Shukla University, Raipur (C.G.)

E-mail: brijpandey09@gmail.com

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Day 09 22.01.22	Lecture 32 (Module 3) Prof. Asheesh Srivastava Dean School of Education Mahatma Gandhi Central University, Motihari, East Champaran, Bihar Effective Classrooms in Relation to NEP 2020 profasheesh@mgcub.ac.in 9933604836	Lecture 33 (Module 3) Prof. Asheesh Srivastava Dean School of Education Mahatma Gandhi Central University, Motihari, East Champaran, Bihar Time management, use of humor in teaching, balancing firmness and friendliness profasheesh@mgcub.ac.in 9933604836	Lecture 34 (Module 3) Prof. C.D. Agashe SoS in Physical Education, Pt. RSU Raipur Teaching my style cagash@yahoo.com 9425503534	Lecture 35 (Module 3) Prof. C.D. Agashe SoS in Physical Education, Pt. RSU Raipur Conceptual Learning cagash@yahoo.com 9425503534
Day 10 24.01.22	Lecture 36 (Module 3) Prof. Swarnlata Saraf Director University Institute of Pharmacy Pt. Ravishankar Shukla University Raipur. Mentoring individual students and student groups- skills and strategies swamlatasaraf@rediffmail.com 9425522945	Lecture 37 (Module 3) Dr. Hima P. Bindu Department of Physics Osmania University Hyderabad Creating blogs, Basics of creating Web pages hb.pitta@osmania.ac.in 9603120775	Lecture 38 (Module 3) Prof. K. Srinivas NUEPA, New Delhi Digital Initiatives of GOI: Building the Competencies of Teachers for online Teaching & OER: Concept & Licensing Search, Use & Reuse ksrinivas@niepa.ac.in 9988721401;	Lecture 39 (Module 4) Prof. K. Srinivas NUEPA, New Delhi Hands on Exposure on E-Content Development Tools drksvasu@gmail.com 9988721401;
Day 11 25.01.22	Lecture 40 (Module 4) Prof. B.S. Thakur Head SoS in Mathematics, Pt. Ravishankar Shukla University, Raipur, C.G. Google form and Google Sites balwantst@gmail.com 9827955810	Lecture 41 (Module 4) Prof. B.S. Thakur Head SoS in Mathematics, Pt. Ravishankar Shukla University, Raipur, C.G. Google form and Google Sites balwantst@gmail.com 9827955810	Lecture 42 (Module 4) Dr. Neeraj Upmanu Registrar NIPER, Hajipur, Vishali Creating MOOCs: An Innovative Teaching Learning Tool creating MOOCs: An Innovative Teaching Learning Tool drnisha@ignou.ac.in	Lecture 43 (Module 4) Dr. Neeraj Upmanu Registrar NIPER Hajipur, Vishali Online Education and Learning: SWAYAM and other Platforms drnisha@ignou.ac.in 9891471277
Day 12 27.01.22	Lecture 44 (Module 4) Prof. Sanjay Tiwari SOS in Electronics and Photonics Pt. Ravishankar Shukla University Raipur Effective ICT Based Teaching Learning Tools For Education Technology stiwari@fulbrightmail.org 7000200750	Lecture 45 (Module 4) Prof. Sanjay Tiwari SOS in Electronics and Photonics Pt. Ravishankar Shukla University Raipur Technology Reforming Education and Skill Development stiwari@fulbrightmail.org 7000200750	Lecture 46 (Module 4) Dr. Madhuri Hooda Department of Education, Maharshi Dayanand University, Rohtak e-content development (script writing, shooting) hoodamadhuri@gmail.com 8295081122	Lecture 47 (Module 4) Dr. Madhuri Hooda Department of Education, Maharshi Dayanand University, Rohtak (ICT based exercise) – hoodamadhuri@gmail.com 8295081122
Day 13 28.01.22	Lecture 48 (Module 4) Dr. Madhusudan J. V. Associate Professor, Department of Education and Education Technology, School of Social Sciences, University of Hyderabad. Managing and Customizing Course in Moodle madhusudanjv@yahoo.co.in 917019596048	Lecture 49 (Module 4) Dr. Madhusudan J. V. Associate Professor, Department of Education and Education Technology, School of Social Sciences, University of Hyderabad. Logs and Analytics in MOODLE madhusudanjv@yahoo.co.in 917019596048	Lecture 50 (Module 4) Prof. Shefali Nagpal Director UGC HRDC, Bhagat Phool Singh Mahila Vishwavidyalaya Sonapat Citation and referencing, IPR and copyright issues nagpalshafali@gmail.com 9050111759	Lecture 51 (Module 4) Prof. Shefali Nagpal Director UGC HRDC, Bhagat Phool Singh Mahila Vishwavidyalaya Sonapat Citation and referencing, IPR and copyright issues nagpalshafali@gmail.com 9050111759
Day 14 29.01.22	Lecture 52 (Module 5) Prof. Rekha Acharya School of Economics DAVV, Indore (M.P) Work Life Imbalance and it's consequences mailforrekha@gmail.com Mob: 94240-02073	Lecture 53 (Module 5) Prof. Rekha Acharya School of Economics DAVV, Indore (M.P) Handling Different Types of Children mailforrekha@gmail.com Mob: 94240-02073	Lecture 54 (Module 5) Prof. J.C. Ajawni Rtd. Professor, Govt. Girls Degree College, Devendra Nagar Raipur Psychotherapy and Counselling jcajawni@yahoo.com 9329100865	Lecture 55 (Module 5) Prof. J.C. Ajawni Rtd. Professor, Govt. Girls Degree College, Devendra Nagar Raipur Counselling strategies for better personal and class adjustment jcajawni@yahoo.com 9329100865

Course Coordinator - Dr. Brijendra Pandey

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(12/01/2022 to 17/02/2022)

Day 15 31.01.22	Lecture 56 (Module 5) Dr. Rama Devi Pani AIU, New Delhi Personality and its defining characteristics, Assessment of personality sangeetaims@gmail.com 94250-62474	Lecture 57 (Module 5) Dr. Rama Devi Pani AIU, New Delhi Personality and its defining characteristics, Assessment of personality sangeetaims@gmail.com 94250-62474	Lecture 58 (Module 5) Prof. Ashutosh Biswal Department of Education MS University Baroda Vadodara (Gujarat) Nature and types of adjustment problems: academic, emotional and social ab9825668982@gmail.com 9825668982	Lecture 59 (Module 5) Prof. Ashutosh Biswal Department of Education MS University Baroda Vadodara (Gujarat) Nature and types of adjustment problems: academic, emotional and social ab9825668982@gmail.com 9825668982
Day 16 01.02.22	Lecture 60 (Module 5) Prof. (Dr.) Vipul Vyas Visiting Faculty, IRMA Director, Mann - The Mind, Mumbai Power of Emotional Intelligence in Work and Life contact@drvipulvyas.com 90040 43297	Lecture 61 (Module 5) Prof. (Dr.) Vipul Vyas Visiting Faculty, IRMA Director, Mann - The Mind, Mumbai Power of Emotional Intelligence in Work and Life contact@drvipulvyas.com 90040 43297	Lecture 62 (Module 5) Anurima Roy Publisher and Chief Editor, Harper Collins Publishers India New Delhi, Mentorship anurimaroy1@gmail.com 9873809165	Lecture 63 (Module 5) Anurima Roy Publisher and Chief Editor, Harper Collins Publishers India New Delhi, 21st Century Skills anurimaroy1@gmail.com 9873809165
Day 17 02.02.22	Lecture 64 (Module 5) Prof. S.K. Jadhav SOS in Biotechnology, Pt. Ravishankar Shukla University, Raipur Seminar jadhav9862@gmail.com 9827114218	Lecture 65 (Module 5) Prof. S.K. Jadhav SOS in Biotechnology, Pt. Ravishankar Shukla University, Raipur Seminar jadhav9862@gmail.com 9827114218	Lecture 66 (Module 6) Prof. Rajeev Chaudhari SoS in Physical Education, PRSU, Raipur Basics of Research chaudharyrajee@gmail.com 9616557777	Lecture 67 (Module 6) Dr. Ajazuddin Associate Dean and Professor School of Pharmacy and Technology Management, SVKMS NMIMS Deemed-to-be-University, Shirpur, Dist: Dhule, Maharashtra Quantitative, Qualitative and mixed method of research 9827199441 ajazuddin@nmims.edu write2ajaz@gmail.com

Day 18 03.02.22	Lecture 68 (Module 6) Dr. Prashant Srivastava DSW Hemchand Yadav University Durg Professional Development and quality Education prashant_k_shri@rediffmail.com 9827178920;	Lecture 69 (Module 6) Dr. Prashant Srivastava DSW Hemchand Yadav University Durg Bridging between teaching and research and importance of staying updated for quality. prashant_k_shri@rediffmail.com 9827178920;	Lecture 70 (Module 6) Prof. Bhaskar Mukherjee Department of Library and Information Science. BHU, Varanasi Software tools for research and for plagiarism check mukherjee.bhaskar@gmail.com 9479127090	Lecture 71 (Module 6) Prof. Bhaskar Mukherjee Department of Library and Information Science. BHU, Varanasi Software tools for research and for plagiarism check mukherjee.bhaskar@gmail.com 9479127090
Day 19 04.02.22	Lecture 72 (Module 6) Prof. Rajeev Chaudhari SoS in Physical Education, PRSU, Raipur Statistical tools to conduct quantitative and qualitative research chaudharyrajee@gmail.com 9616557777	Lecture 73 (Module 6) Prof. Rajeev Chaudhari SoS in Physical Education, PRSU, Raipur Research Ethics chaudharyrajee@gmail.com 9616557777	Lecture 74 (Module 6) Dr. Amrendra Pani AIU, New Delhi Fundamental of Strategic and Transformational leadership research@aiu.ac.in researchaiu@gmail.com 9818248913	Lecture 75 (Module 6) Dr. Amrendra Pani AIU, New Delhi Different kinds of leadership – results-oriented leadership, creative leadership, leading for creative results research@aiu.ac.in researchaiu@gmail.com 9818248913
Day 20 05.02.22	Lecture 76 (Module 6) Dr. Amit Alexander Associate professor National Institute of Pharmaceutical Education and Research NIPER Gauhati Software tools for research and for plagiarism check: Latex, Bibliographic, End Note, Bib Tex, Turnitin, Statistical, other open-sources tool: data in the public domain. amit.alexander@niperguwahati.ac.in +91 99073 33846	Lecture 77 (Module 6) Prof. Aruna Palta Vice Chancellor Hemchand Yadav University Durg Conducting Discipline-specific Research: planning, and writing a research proposal, funding opportunities, involving students in research 9424223822	Lecture 78 (Module 6) Prof. Aruna Palta Vice Chancellor Hemchand Yadav University Durg Preparing to become a PhD guide: roles and responsibilities 9424223822	Lecture 79 (Module 6) Prof. S.K. Jadhav Professor SOS in Biotechnology, Pt. Ravishankar Shukla University, Raipur Research "A Voyage of Discovery" jadhav9862@gmail.com 9827114218

(12/01/2022 to 17/02/2022)

Day 21 07.02.22	Lecture 80 (Module 6) Prof. K.R. Hari SoS in of Geology & WRM PRSU, Raipur Project Presentation krharigeology@gmail.com 9827984622	Lecture 81 (Module 7) Prof. Bhaskar Mukherjee Department of Library and Information Science. BHU, Varanasi Predatory journal or predatory practice - which to be controlled. mukherjee.bhaskar@gmail.com 9479127090	Lecture 82 (Module 7) Prof. Shalini Libitkar Department of Library and Information Science, Rashtrasantukadoji Maharaj Nagpur University, Nagpur Emerging profiling tools to enhance research visibility shalinilhitkar2015@gmail.com 8999159519	Lecture 83 (Module 7) Prof. Shalini Libitkar Department of Library and Information Science, Rashtrasantukadoji Maharaj Nagpur University, Nagpur Use of Reference management tools to avoid violation of publication ethics shalinilhitkar2015@gmail.com 8999159519
Day 22 08.02.22	Lecture 84 (Module 7) Dr. Suprnsen Gupta Librarian Pt. Ravishankar Shukla University, Raipur Academic Integrity and Consequences of Academic Integrity Breaches library_prsu@rediffmail.com 9009828456	Lecture 85 (Module 7) Dr. Suprnsen Gupta Librarian Pt. Ravishankar Shukla University, Raipur Honor codes and Honor pledges library_prsu@rediffmail.com 9009828456	Lecture 86 (Module 7) Dr. Akhtar Parvez University Librarian Maulana Azad National Urdu University Hyderabad (Central University) Ethics and Challenges in Academic Matter akhtar@manuu.edu.in 9389906902	Lecture 87 (Module 7) Dr. Akhtar Parvez University Librarian Maulana Azad National Urdu University Hyderabad (Central University) Ethics and Challenges in Academic Matter akhtar@manuu.edu.in 9389906902
Day 23 09.02.22	Lecture 88 (Module 7) Prof. NinadBodhankar SoS in of Geology & WRM PRSU, Raipur (Microteaching) bninad21@gmail.com 9826515859	Lecture 89 (Module 7) Prof. NinadBodhankar SoS in of Geology & WRM PRSU, Raipur (Microteaching) bninad21@gmail.com 9826515859	Lecture 90 (Module 8) Dr. K. Subramaniam Rtd. IFS, CG Government Human Rights and Fundamental Duties manier1958@yahoo.co.in 9826148944	Lecture 91 (Module 8) Dr. K. Subramaniam Rtd. IFS, CG Government Human Rights and Fundamental Duties manier1958@yahoo.co.in 9826148944

Day 24 10.02.22	Lecture 92 (Module 8) Prof. Kiran Gardner Professor, Dean Alliance University, Bangaluru Discrimination on the basis of caste, class and gender in classroom. kirang@gmail.com 9898715106	Lecture 93 (Module 8) Prof. Kiran Gardner Professor, Dean Alliance University, Bangaluru Discrimination on the basis of caste, class and gender in classroom. kirang@gmail.com 9898715106	Lecture 94 (Module 8) Prof. Vijay Kumar Singh Professor Dean UPES, Dehradun Constitutional Values vsingh.vk@gmail.com 9891500707	Lecture 95 (Module 8) Prof. Vijay Kumar Singh Professor Dean UPES, Dehradun Impact on Education Domain of constitutional values vsingh.vk@gmail.com 9891500707
Day 25 11.02.22	Lecture 96 (Module 8) Prof. Kiran Rai Associate Professor Mahatma National Law University Mumbai Role of education in creating a more equal and just Society kmrail@yahoo.com 8860471555	Lecture 97 (Module 8) Prof. Kiran Rai Associate Professor Mahatma National Law University Mumbai Anchoring professional ethics in universal values kmrail@yahoo.com 8860471555	Lecture 98 (Module 8) Prof. NinadBodhankar SoS in of Geology & WRM PRSU, Raipur (Group Discussion) amarkantpandey3@gmail.com 8770199278	Lecture 99 (Module 8) Prof. NinadBodhankar SoS in of Geology & WRM PRSU, Raipur (Group Discussion) amarkantpandey3@gmail.com 8770199278
Day 26 12.02.22	Lecture 100 (Module 9) Prof. Rajesh Kumar Dubey Director, HRDC, Jodhpur University. The need of Environmental Consciousness directorhrdc@gmail.com 91982-18888	Lecture 101 (Module 9) Prof. Rajesh Kumar Dubey Director, HRDC, Jodhpur University. Importance of Sustainable Development Goals directorhrdc@gmail.com 91982-18888	Lecture 106 (Module 09) Prof. Manu Gouraha School of Studies in Sociology and Social Work Vikram University, Ujjain (M.P) How to achieve social justice manugouraha@gmail.com 94259-17211	Lecture 103 (Module 09) Prof. Manu Gouraha School of Studies in Sociology and Social Work Vikram University, Ujjain (M.P) Concept to improvise the social and educational standards manugouraha@gmail.com 94259-17211
Day 27 14.02.22	Lecture 104 (Module 09) Prof. Rajeev Chaudhari SoS in Physical Education, PRSU, Raipur Essentials for good Health and well being chaudharvrajee@gmail.com 9616557777	Lecture 105 (Module 09) Prof. Aruna Palta Vice Chancellor Hemchand Yadav University Durg Diet and Stress 9424223822	Lecture 106 (Module 09) Prof. Rajesh Kumar Dubey Professor, HRDC, Jodhpur University. Necessity of SDG for a better society directorhrdc@gmail.com 91982-18888	Lecture 107 (Module 09) Prof. Rajesh Kumar Dubey Professor, HRDC, Jodhpur University. Necessity of SDG for a better society directorhrdc@gmail.com 91982-18888

(12/01/2022 to 17/02/2022)

Day 28 15.02.22	Lecture 108 (Module 10) Dr. Nitin Malik Registrar Dr. B.R. Ambedkar University Delhi Understanding work planning and its management nitinmalik@aud.ac.in 8700081781	Lecture 109 (Module 10) Prof. Anand Verdhhan Sharma Sofia University Bulgaria Dynamic status of faculty members anandsharma_64@yahoo.co.in 8208384895	Lecture 110 (Module 10) Dr. K. Subramaniam Rtd. IFS, CG Government Strategic Planning: Indian Economy Post Covid manier1958@yahoo.co.in 9826148944	Lecture 111 (Module 10) Dr. K. Subramaniam Rtd. IFS, CG Government Causes and Effects of Indian Economy in Post Covid situation. manier1958@yahoo.co.in 9826148944
Day 29 16.02.22	Lecture 112 (Module 10) Prof. Shailendra Saraf Director UGC-HRDC, Pt. Ravishankar Shukla University, Raipur, C.G. Roadmap of excellence from vision strategy 9826150327 shailendrasaraf@gmail.com	Lecture 113 (Module 10) Dr. Vani Subramanyam, Rtd. Principal, Maitri College, Bhilai (C.G.) (Microteaching) vani.subramanyam@gmail.com m 9424109906	Lecture 114 (Module 10) Dr. Vani Subramanyam, Rtd. Principal, Maitri College, Bhilai (C.G.) (Microteaching) vani.subramanyam@gmail.com m 9424109906	Lecture 115 (Module 10) Final Test
Day 30 17.02.22	Lecture 116 (Module 10) Prof. Swarnlata Saraf Director University Institute of Pharmacy Pt. Ravishankar Shukla University Raipur. Preparing vision/mission document, state and institutional level strategic plan. swamlatasaraf@rediffmail.com 9425522945	Feedback of Participants	Valedictory	

(12/01/2022 to 17/02/2022)

UGC - HRDC, PRSU, Raipur, Chhattisgarh
Faculty Induction Program (GURUDAKSHITA)
January 12- February 17, 2022

LIST OF THE CHAIRPERSONS AND REPORTERS

DATE/DAY	CHAIRPERSON	RAPPORTEUR
12.01.22/ Day - 1	Tilak Chandra Dewangan	Munai Paramanik
13.01.22/ Day - 2	Shyam Sunder Tiwari	Tarun Banerjee
14.01.22/ Day - 3	Kiran Singh	Dr. Kunal Sardar
15.01.22/ Day - 4	Uttara Kumar Sidar	Dr. Minakshi Madhukar Kamble
18.01.22/ Day - 5	Gavaskar Kaushik	Vijay Singh
19.01.22/ Day - 6	Bedanta Sinha	Aatma Ram Verma
20.01.22/ Day - 7	Suresh Kumar Shakre	Smt. Sunita Ganesh Joshi
21.01.22/ Day - 8	Santosh Kumar Singh	Ajaybhai Dipakbhai Valvi
22.01.22/ Day - 9	Dr. Sanjay Kumar Tiwari	Dr. Kamal Ahmad
24.01.22/ Day - 10	Goutam Halder	Yogendra Kumar
25.01.22/ Day - 11	Tarun Banerjee	Smt. Susanna Lakra
27.01.22/ Day - 12	Hiren Devchandbhai Kakadiya	Raj Kumar Singh
28.01.22/ Day - 13	Mr. Dhavalkumar Arvindbhai Makwana	Dhammashil Charandas Gajbhiye
29.01.22/ Day - 14	Tilak Chandra Dewangan	Shyam Sunder Tiwari
31.01.22/ Day - 15	Dr. Kunal Sardar	Kiran Singh
01.02.22/ Day - 16	Dr. Minakshi Madhukar Kamble	Uttara Kumar Sidar
02.02.22/ Day - 17	Vijay Singh	Gavaskar Kaushik
03.02.22/ Day - 18	Aatma Ram Verma	Bedanta Sinha
04.02.22/ Day - 19	Smt. Sunita Ganesh Joshi	Suresh Kumar Shakre
05.02.22/ Day - 20	Ajaybhai Dipakbhai Valvi	Santosh Kumar Singh
07.02.22/ Day - 21	Dr. Kamal Ahmad	Dr. Sanjay Kumar Tiwari
08.02.22/ Day - 22	Jasram Nayak	Goutam Halder
09.02.22/ Day - 23	Sudipto Bhattacharjee	Tarun Banerjee
10.02.22/ Day - 24	Dr. Kavita Chahal	Tilak Chandra Dewangan
11.02.22/ Day - 25	Santu Ram Darro	Hiren Devchandbhai Kakadiya
12.02.22/ Day - 26	Meera Yadav	Mr. Dhavalkumar Arvindbhai Makwana
14.02.22/ Day - 27	Atul Kumar Verma	Yogendra Kumar
15.02.22/ Day - 28	Sudhir Kumar Agrahari	Smt. Susanna Lakra
16.02.22/ Day - 29	Piri Singh Thakur	Dhammashil Charandas Gajbhiye
17.02.22/ Day - 30	Dr. Sanjay Kumar Tiwari	

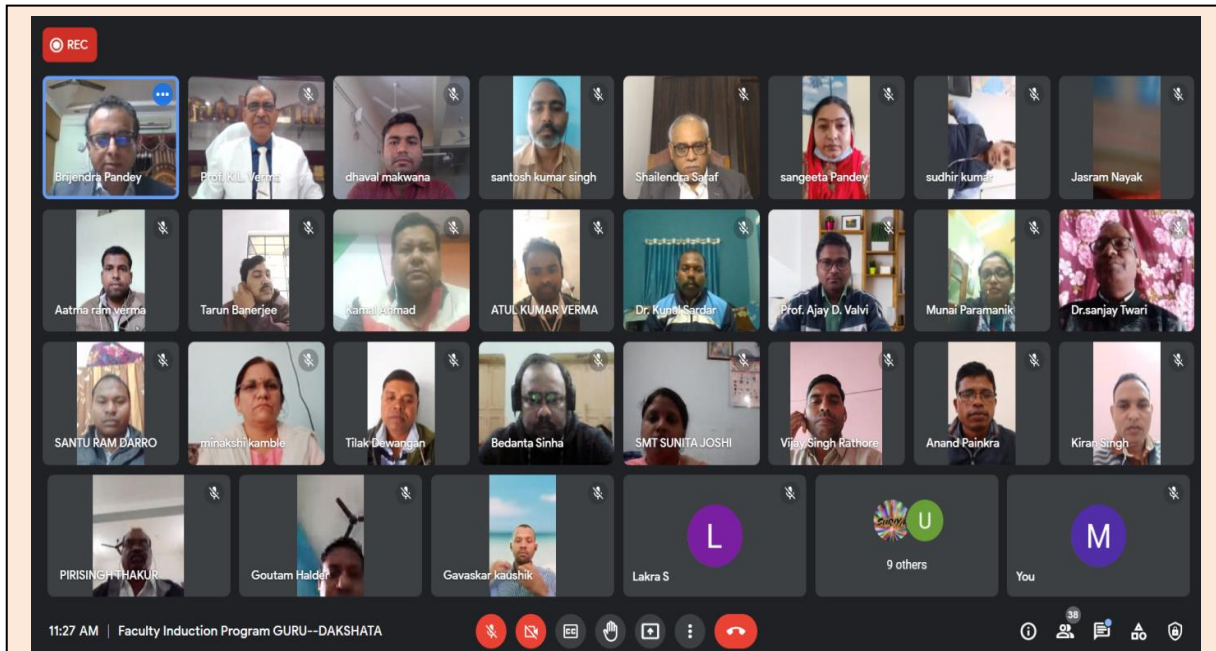
(12/01/2022 to 17/02/2022)

System of Assessment

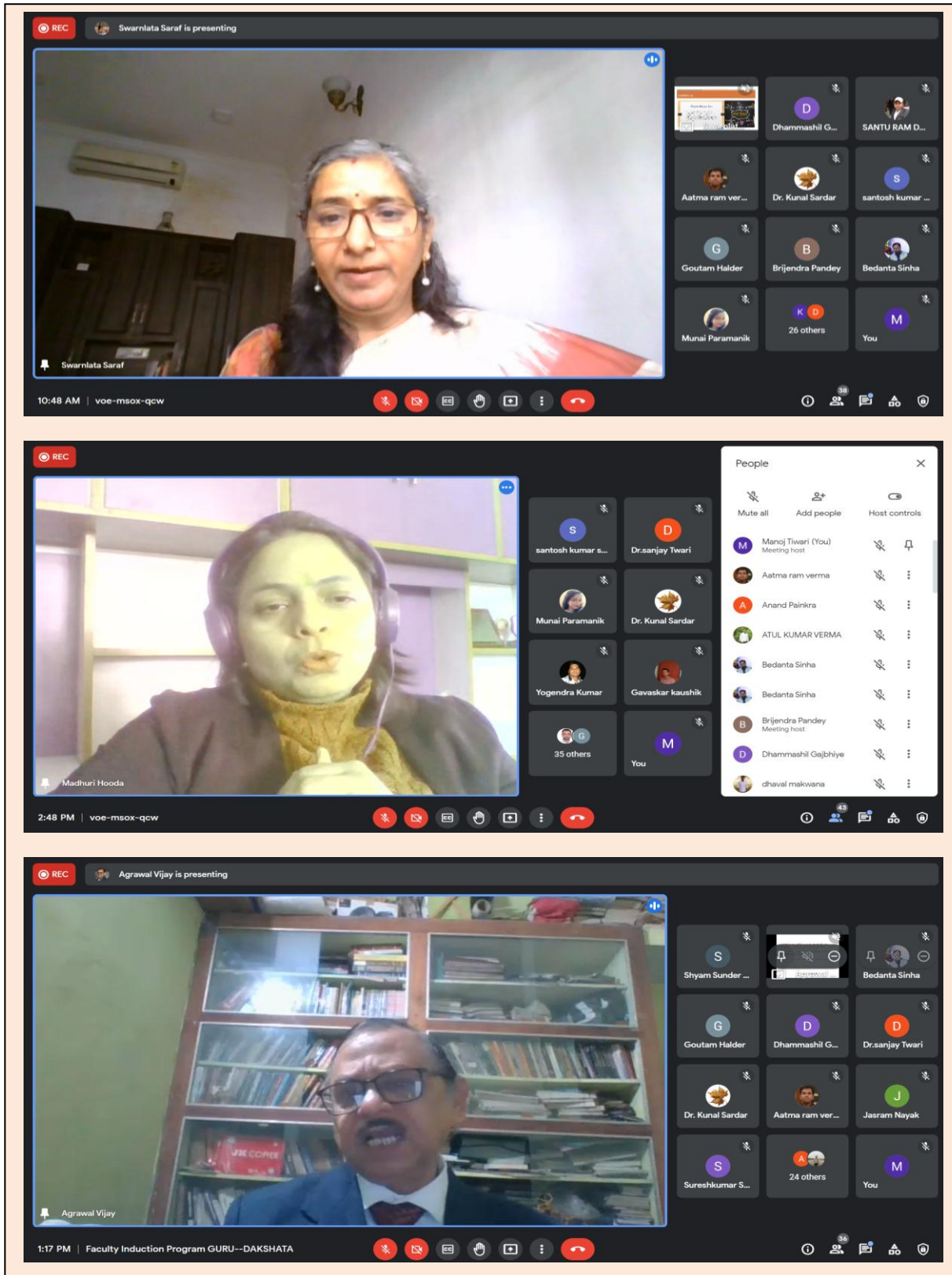
A variety of assessment methods were used to assess the interest and learning bility of the participants, based on the methods of assessment descried in the Guru-Dakshata e- book. The evaluation methods and the division of marks in them are as follows –

SN	Activity	Module										Total
		1	2	3	4	5	6	7	8	9	10	
1	Objective Test	10	10	10	10	10	10	10	10	10	10	100
2	Seminar	-	-	-	-	20	-	-	-	-	-	20
3	Brainstorming	-	10	-	-	-	-	-	-	-	-	10
4	Discussion	-	-	-	-	-	-	-	10	-	-	10
5	Individual Activity	-	10	-	-	-	-	-	-	-	-	10
6	Exercise on Assessment and Evaluation	-	-	10	-	-	-	-	-	-	-	10
7	E - Content Development	-	-	-	20	-	-	-	-	-	-	20
8	Project Proposal	-	-	-	-	-	30	-	-	-	-	30
9	MicroTeaching	-	-	-	-	-	-	10	-	-	10	20
10	Assignment	-	-	-	-	-	-	10	-	-	-	10
11	Brief notes on SDG and its various dimensions	-	-	-	-	-	-	-	-	10	-	10
12	Holistic Assessment	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25
13	Multiple Choice Test at the end covering all the modules	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25
Total		15	35	25	35	35	45	35	25	25	25	300

(12/01/2022 to 17/02/2022)

Some Glimpses of the Faculty Induction Program (FIP)**Course Coordinator - Dr. Brijendra Pandey****HRDC, Pt. Ravishankar Shukla University, Raipur (C.G.)****E-mail: brijpandey09@gmail.com**

(12/01/2022 to 17/02/2022)

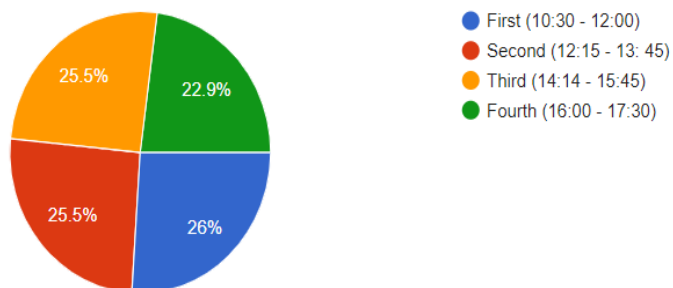


(12/01/2022 to 17/02/2022)

Feedback of the Faculty Induction Program (FIP)

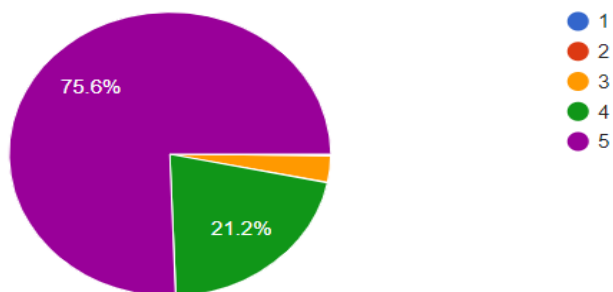
5. Period

2,772 responses



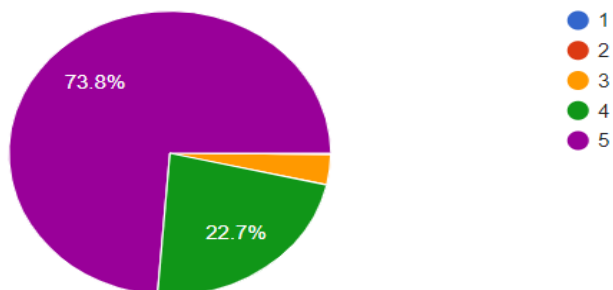
7. Content of the Talk-Adequacy (Maximum 5 mark)

2,772 responses



8. Relevance of the Talk (Maximum 5 mark)

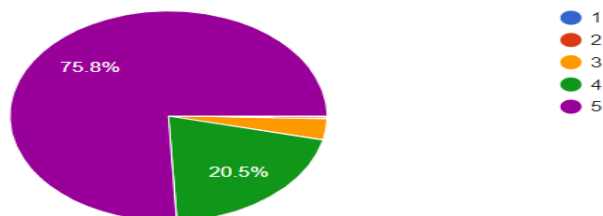
2,772 responses



(12/01/2022 to 17/02/2022)

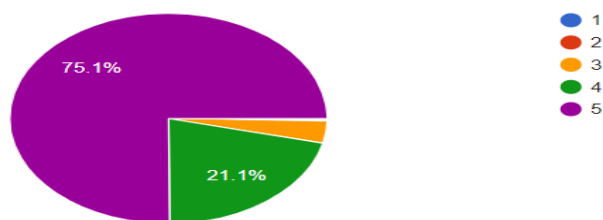
10. Presentation style of Talk (Maximum 5 mark)

2,772 responses



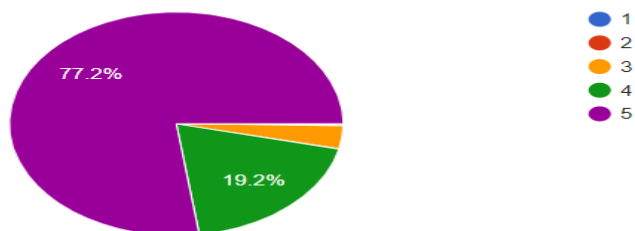
11. Presentation style- Interesting (Maximum 5 mark)

2,772 responses



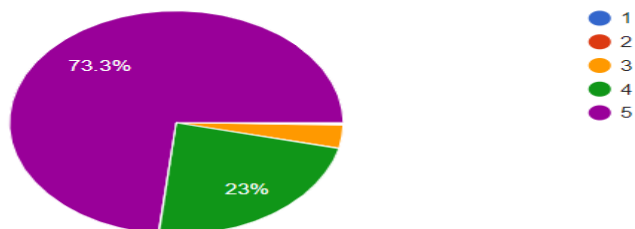
12. Language of the talk (Maximum 5 mark)

2,772 responses



13. Interaction of the Talk-Inspiring (Maximum 5 mark)

2,772 responses



(12/01/2022 to 17/02/2022)

Assessment Criterion and Marking:

1. Objective Test (Module 1-10)	:	100
2. Seminar	:	20
3. Brainstorming	:	10
4. Discussion	:	10
5. Individual Activity	:	10
6. Exercise on Assessment and Evaluation	:	10
7. E-content Development	:	20
8. Project Proposal	:	30
9. Microteaching	:	20
10. Assignment	:	10
11. Brief notes on SDG and its various dimensions	:	10
12. HolisticAssessment	:	25
13. Multiple Choice Test at the end covering all modules	:	25
Total	:	300

HRDC

FIP / RC Sr. No. _____

Date _____ Signature _____

Grading pattern (based on Marks)

A+	:	85 percent and above
A	:	70 percent to less than or equal to 84 percent
B	:	60 percent to less than or equal to 69 per cent
C	:	50 percent to less than or equal to 59 per cent
F	:	Below 49 percent

Those teacher participants who score F grade are required to repeat the program after a gap of one year without financial commitment to UGC-HRDC.

Online Delivery Platform : GOOGLE MEET



UGC - Human Resource Development Centre
Pt. Ravishankar Shukla University, Raipur



Organized

Online Short Term Course In Intellectual Property Right

January – 27 to 29, 2022

Report

Theme of Course/Program:	Intellectual Property Right
Name of Course Coordinator:	Prof. Swarnlata Saraf, Director, University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur
Name of Contact person from HRDC:	Dr. Arvind Agrawal Assistant Professor Human Resource Development Centre Pt. Ravishankar Shukla University, Raipur
Date of Course/Program:	27.01.2022 to 29.01.2022
Number of Participants:	40
State wise number of participants:	State(05)- C.G.-29, Telangana-01, Rajasthan- 01, Himachal Pradesh-07, Assam-02,
Gender wise number of participants:	Male – 18, Female – 22
Number of Resource Persons	08
Name and Signature of Course Coordinator	
Online Platform	
Google Meet	Meet.google.com/boq-qiry-qza

Organizing Team



Prof. K. L. Verma
Vice Chancellor Pt. RSU, Raipur
(C.G.)



Prof. Shailendra Saraf
Director
HRDC, Pt. RSU, Raipur (C.G.)



Prof. Swarnlata Saraf
University Institute of Pharmacy,
Pt. RSU, Raipur (C.G.)



Dr. Arvind Agrawal
Assistant Professor HRDC, Pt. RSU,
Raipur, (C.G.)

Short Term Course in Intellectual Property Right (27.01.2022 - 29.01.2022)

A Short Term Course in “Intellectual Property Right” was organized by Human Resource Development Centre, Pt. Ravishankar Shukla University Raipur, in collaboration with University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur from 27th -29th , January 2022. The course was attended by Forty registered participants from across the country. 11 outstation and 29 local participants attended the same. 08 resource persons delivered lectures.

DAY 1

Session I (10.30-12.00) Inaugural Function

The Programme commenced with the Inaugural Function at 10.00 a.m. with **Chief guest as Hon’ble Vice Chancellor Prof. Keshari Lal Verma, Pt Ravishankar Shukla University, Raipur.** With Director sir and Course Co-Ordinators, the Programme commenced by welcoming them ,which was followed by Introduction of the Participants, Introduction about the course by Course Co-Ordinator and Address by the Director HRDC- Pt RSU.

Inaugural Address was given by Hon’ble Vice Chancellor who focused on the developments in Intellectual Property Right and how updated the Professors must be by using such useful courses. Finally Vote of Thanks was given by Course Co-Ordinator.

Chairperson of the session: Rajashekar Perusomula

Reporter of the session: Ram Kumar Sahu

(27/01/2022 to 29/01/2022)



(27/01/2022 to 29/01/2022)

Session II (12:15 to 13:45)

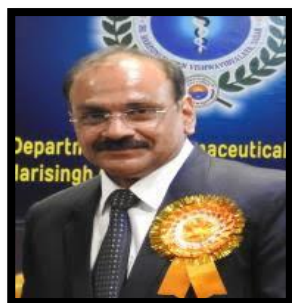
1. Prof. Ramesh K Goyal, is conducted on topic entitled 'IP and Regulation: Challenges and Opportunities in Healthcare Entrepreneurship' by Resource Person by **Prof. Ramesh K Goyal**, Vice Chancellor, Delhi Pharmaceutical Sciences & Research University, New Delhi

During lecture **Prof Ramesh K Goyal** explained right form definition of patent and finally how to file a patent

- Advantages of patent copyright and trademark
- Differences between patent copyright and trademark
- How to Protect idea or innovation
- Utility patent what to be patented
- Requirements for patent
- Realities of the patent (personal insights)
- pros & cons in filing patents
- Interaction with participants

Chairperson of the session: Rajashekar Perusomula

Reporter of the session: Ram Kumar Sahu

Session III (14.15 to 15.45)

2. Prof. Sanjay Jain, is conducted on topic entitled 'Intellectual Property Right's Issues in Selecting Research Problems' by Resource Person **Prof. Sanjay Jain**, Department of Pharmaceutical Sciences, Director Planning and Resource Generation, Dr. Hari Singh Gour Central University, Sagar (M.P.)

In the session he postulated about the Intellectual property rights and patents in research. He cleared the concept of the researchers and participants on how to design research so that further findings could be patented in future.

(27/01/2022 to 29/01/2022)

He stressed on the need of patent search before finalizing the research project to avoid duplication and plagiarism. He motivated researchers and participants to innovate things. He gave various examples showing that for invention there is no requirement of PhD or a degree in science it could be done by any person of any age. Innovation arises from idea and that idea should be novel, as well as could be patentable according to economicity. Mere discovery of existing things in new form or repurposing of drugs/ chemicals or presenting it in a different form could be patentable. But the important point to be noted is the invention should be novel, non-obvious and should have commercial applicability.

He gave complete overview to the participants starting from objectives, terminology, the steps of procedure of applying patent, fees structure, time duration for each step, provisional specification, complete specification, significance of writing claims, replying examination reports etc. so that one could have knowledge how to apply patent. Discussion was also done on copyright, plant breeders rights, trade secrets etc. All the aspects of different Intellectual Property Rights were discussed.

The session was followed by the interactive questionnaire and discussion in which various doubts of the participants were cleared. Session was highly beneficial for all the participants in Academics and Research specially related to IPR issues in selecting research problems.

Chairperson of the session: Prof. Chanchal Deep Kaur

Reporter of the session: Dr. Anshita Gupta Soni

Session IV (16.00 to 17.30)



3. Dr. Bijay Kumar Sahu, is conducted on topic entitled 'Role of Intellectual Property Rights in Academic R & D for Entrepreneurship' by Resource Person **Dr. Bijay Kumar Sahu**, Regional Manager and Head, NRDC IPFC and TISC, Govt of India, innovation Valley, Visakhapatnam

(27/01/2022 to 29/01/2022)

The presentation was started with the quote “Education disseminates known knowledge. research converts money into knowledge, innovation converts knowledge into money”. With these words he emphasized on the significance of innovation and taking of patents. He discussed the role of Academic leaders in innovation and value creation. In the Academic institutes there is requirement of new and varied leadership roles, proactive leaders are required to motivate their staff and students to go for patenting before publication.

He gave various examples related to the significance of research leading to patenting and commercialization. Discussed global innovation Index 2021 of WIPO to explain India’s successful leap in Innovation. We will have to create vision of innovation amongst our faculty members and students. For long term healthy economy healthy root system of innovation is required which includes ideas, concepts, knowledge secret sauce, creativity, inventions, software’s, work processes, trade secrets and patents. Future Institutes will have to create a mindset that we will have to learn then innovate.

He emphasized on Academia and Industries collaboration as it could lead to commercialization and implementation of the research and the newer technologies that are developed. Academics is all about teaching, research, capacity building, skill development and socioeconomic value creation while industry is towards new process and product R & D. Academicians creates knowledge while industry manages that knowledge from growth and commercialization. Hence the participants should learn to develop such ideas or product or process such that it could be transferred to industry for growth and development.

The discussion was also done on taking IPR to safeguard the products as per geographical indications. He gave various examples how the products are safeguarded and also economy is generated by the local people which signifies the importance of IPR

The session ended with the discussion by the participants, queries were solved and speaker congratulated the coordinators of the program for organizing the program with such important topic.

Chairperson of the session: Prof. Chanchal Deep Kaur

Reporter of the session: Dr. Anshita Gupta Soni

(27/01/2022 to 29/01/2022)

DAY 2**Session I (10.30-12.00)**

4. Dr. K.S. Kardam, is conducted on topic entitled 'old and new concepts of IPR' by Resource Person **Dr. K.S. Kardam**, Senior joint Controller of patent office, former head of property office, Delhi

His presentation with old and new concepts of IPR and from that he elaborate the types of IPR, importance of IPR with some examples, he was explain the IPR law in India , he was also give a details of patentable subjects, requirement for patent, how patent laws have changes in India, in continuation speaker also give examples of trade mark and copy right, he tell about the geographical indications for agricultural and natural goods. After this speaker has told about the international convention and treaties in brief. Finally he concludes with some important points like why universities have to maintain records of research, why never ignore small ideas and role of IPR policy for universities.

Chairperson of the session: Pravesh Kumar Sharma

Reporter of the session: Achal Mishra

Session II (12.15-13.45)

5. Dr. Bijay Kumar Sahu, is conducted on topic entitled 'IPR through pictorial' by Resource Person **Dr. Bijay Kumar Sahu**, Regional Manager and Head, NRDC IPFC and TISC, Govt of India, innovation Valley, Visakhapatnam

He started his lecture with the concepts of IPR through pictorial presentation during which he explained the criteria for patentable products. Very interestingly he described the process and procedure for patent filling, patentable criteria along with different stages in

(27/01/2022 to 29/01/2022)

patent filing. In continuation he explained about the significance and credibility of the patent filing. In the second part, technology transfer and factors affecting the technology transfer were described. Finally, case studies of major challenges in technology transfer and role of national research development corporation in IPR protection was discussed.

Chairperson of the session: Pravesh Kumar Sharma

Reporter of the session: Achal Mishra

Session III (14:15 to 15:45)



6. Prof. P.G. Shrotiya, is conducted on topic entitled 'the different aspects of intellectual property right' by Resource Person **Prof. P.G. Shrotiya**, CEO, Elite consultancy services-pharma consultant, Ahmadabad, Gujrat

The session was started with welcome note by coordinator of event Prof. Swarnlata Saraf, Director, University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur. In lecture session, Prof. P.G. Shrotiya has emphasized the different aspects of intellectual property right, patent act and regulations. He also focuses on Major Risks Facing Pharma Manufacturers in 2021 and current patent issues. The lecture was received with admiration by participants and the event ended with vote of thanks by Dr. Nikita Verma, Chairperson of the session.

Chairperson of the session: Nikita Verma

Reporter of the session: Rakesh Tirkey

(27/01/2022 to 29/01/2022)

Session IV (16:00 to 17:30)

6. Dr. Vijay Shivpuje, is conducted on topic entitled 'intellectual property rights and basic of patent filing process' by Resource Person **Dr. Vijay Shivpuje**, Director, Patlex business solutions, Mumbai

In lecture session, Prof. Dr. Vijay Shivpuje has explained the vast knowledge about intellectual property rights and basic of patent filing process. He also mentioned the problems and step by step process of patent filing. After Deliberation, participants actively participated in query session. Session ended with vote of thanks by Mr. Rakesh Tirkey, Assistant Professor, University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur.

Chairperson of the session: Nikita Verma

Reporter of the session: Rakesh Tirkey

DAY 3**Session I (10.30-12.00)**

7. Vikas Asawat, is conducted on topic entitled 'Patent Drafting and filling issues in Indian Context' by Resource Person **Vikas Asawat**, Registered Patent & Trade Mark Attorney, Kota, Rajasthan

He highlighted the importance of IPR and various steps involved in patent filing process. He explained the difference between Product and Process Patent with examples. He elaborated the different section of patent such as section-3, 4 , 10, 35 and their significance during patent application. He discussed about Problem solution approach , Novelty and Non Obviousness. He mentioned about first to file

(27/01/2022 to 29/01/2022)

system and its significance. He guided the participants about drafting quality of patent. He mentioned the ethical grounds of patent filing and how language and word selection impacts during patent filing. He also mentioned that drug repurposing can not be patented . He provided brief idea about herbal patenting and its jurisdiction . He briefed out about complete structure and specifications of Patent form as per Indian Patent application. Mr. Vikas also provided several examples of patent filings in different sectors like engineering , mechanical , electronics and pharmaceutical sciences.

In the questionnaire section, participants asked their queries and Mr, Vikas cleared their doubts.

Chairperson of the session: Dr. Swarnali Das Paul

Reporter of the session: Dr. Amar Deep Ankalgi

Session II (12.15-13.45)

8. Mr. Nikesh Gupta, is conducted on topic entitled '**Introduction to Patent Law**' by Resource Person **Mr. Nikesh Gupta**, Patent Attorney, Aeceloemittal Global R&D, France

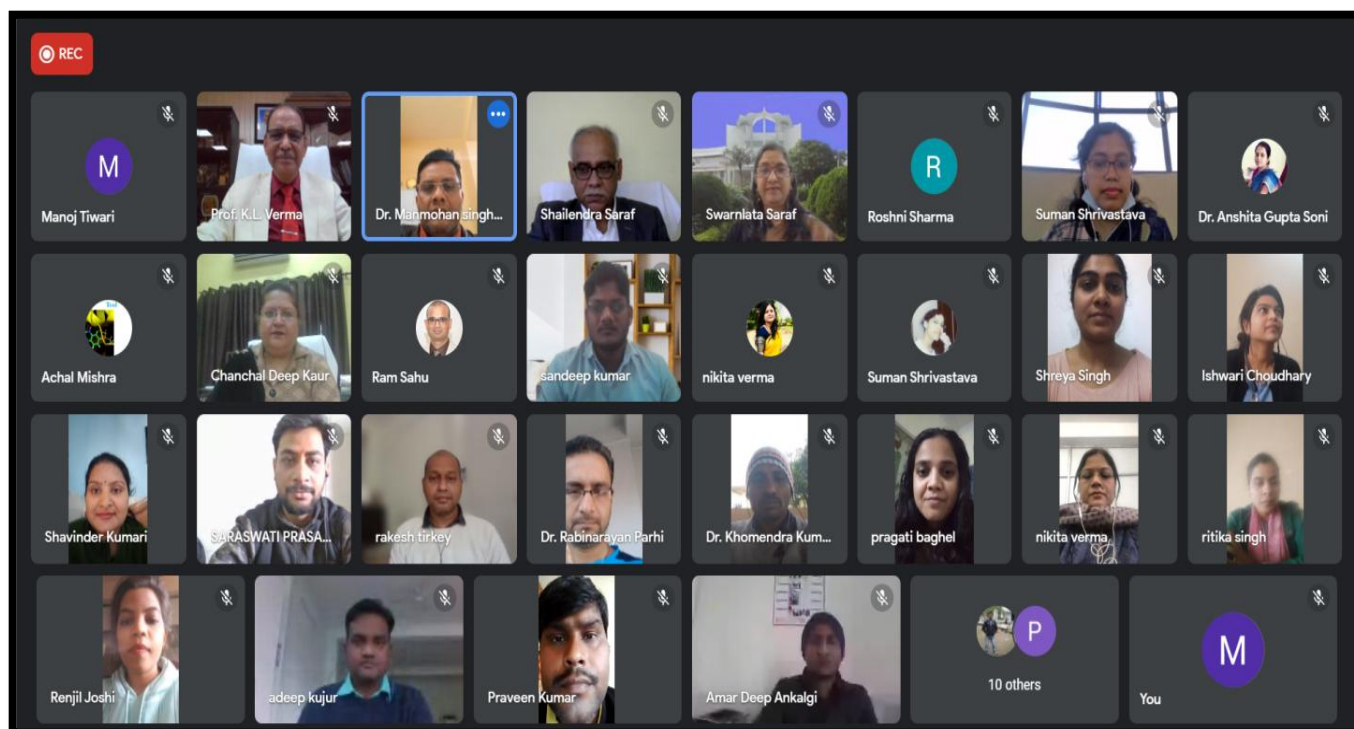
He discussed the brief history about the patent legal progression across the globe. He emphasized the need of Patent and its overall benefits. He described various patent parameters. He mentioned the Patent Prosecution System of India and its operation. He briefly discussed about application procedure of patent in India, its publication and how to apply for the request of examination. He nicely discussed about different component of patent specification with respect to different countries like European union, UK, Japan etc. He highlighted the similarity and differences in the specifications, abbreviation and the meaning of alphabetical notations in patent specification . He briefly explained the types of claim and mentioned that product patent is always superior to process patent. He highlighted the similarity and differences in patent application protocol of India with European Unions and other countries.

(27/01/2022 to 29/01/2022)

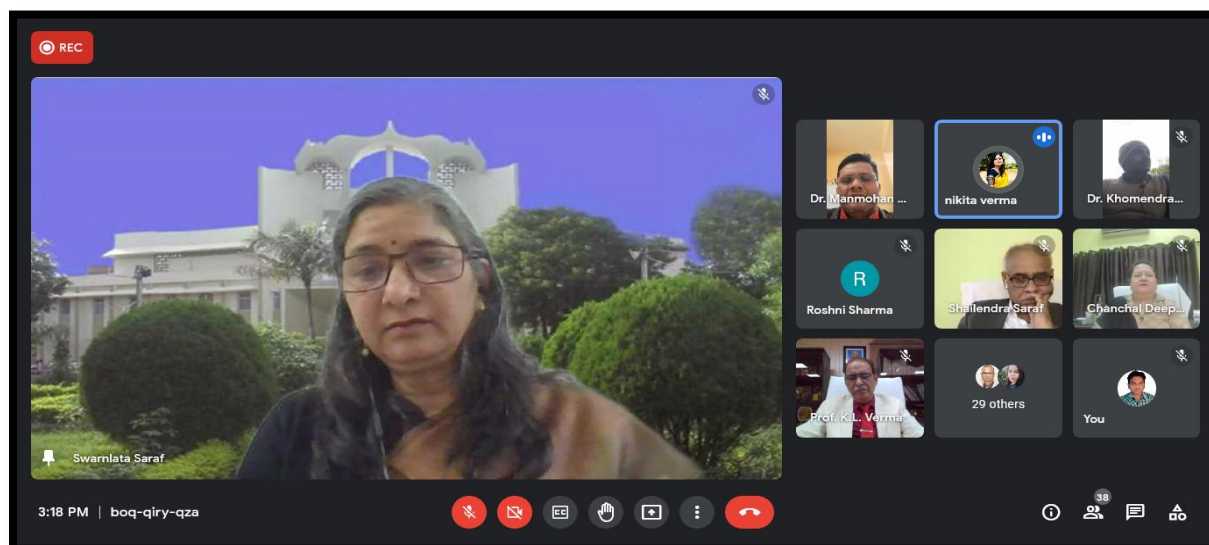
In Questionnaire round , Mr. Nikesh answered the questions put forward by the participants and encouraged the budding faculty and researchers to focus on innovative work and focus for patenting their design, product or process patent which is the current need of nation.

Session III (14.15-15.45) - **Valedictory**

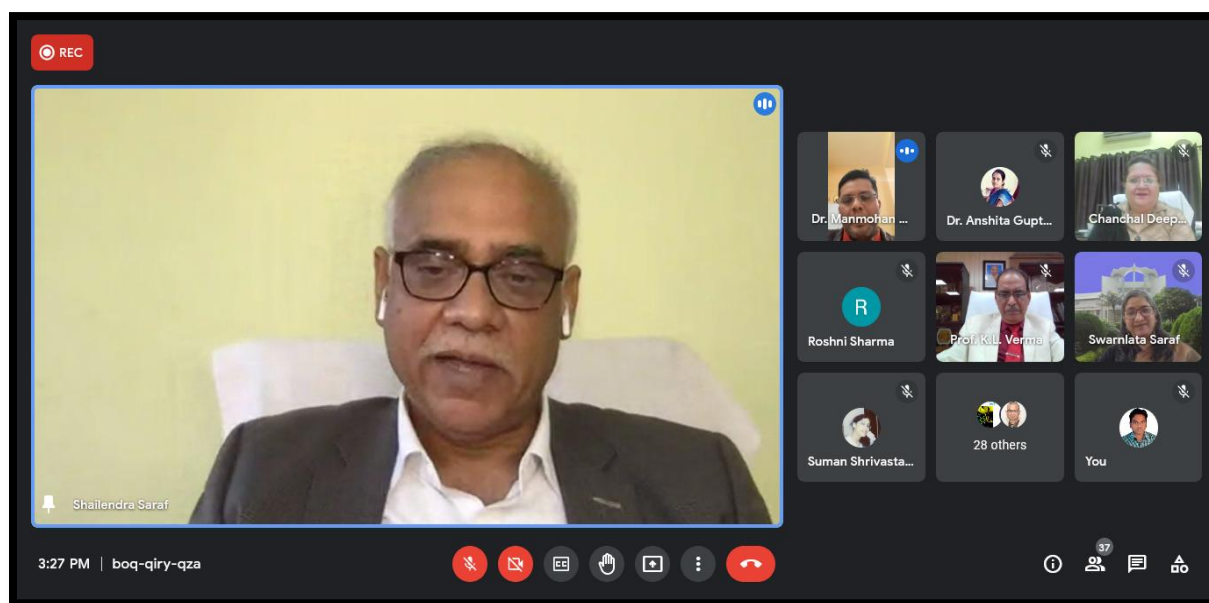
The end of the third day was followed by Valedictory Function. The function started with the address of **Prof. Swarnlata Saraf**, Course Coordinator and Director, University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur (C.G.). She gave the brief summary and report of three days Short Term Course. She appreciated delegates and teachers for their active participation and extended her appreciation to participating faculty members of different universities for cooperation for the successful conduction of the three days Short Term Course.



(27/01/2022 to 29/01/2022)



Then the session followed by the keynote address of **Prof. Shailendra Saraf**, Director, UGC-Human Resource Development Centre, Pt. Ravishankar Shukla University, Raipur (Chhattisgarh). He spoke about the motive of the Short Term Course and insisted young researchers to utilize this three day Short Term Course as platform to unlock their potential and mind to gain from various IPR related information's which were discussed in these three days and get benefitted by it.



(27/01/2022 to 29/01/2022)

Then the valedictory address was given by **Prof. Keshari Lal Verma**, Honorable Vice Chancellor, Pt. Ravishankar Shukla University, Raipur (C.G.). He addressed the gathering with his encouraging words and appreciated the efforts of Committee members of the Short Term Course for bringing out this national level Short Term Course which was graced by the presence of eminent speakers and participating faculty members from different parts of Chhattisgarh state and India.






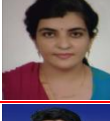


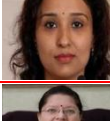




The program came to end with the vote of thanks by **Dr. Arvind Agrawal**, Assistant Course Coordinator and Assistant Professor, UGC-Human Resource Development Centre, Pt. Ravishankar Shukla University, Raipur (Chhattisgarh).

(27/01/2022 to 29/01/2022)

Short Term Course – Intellectual Property Right

(27.01.2022 to 29.01.2022)

Participants List**Course Coordinator - Prof. Swarnlata Saraf**





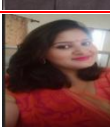


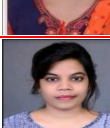


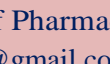
Sr. No.	Name of Participants	Email Address	Photo	Mobile No.	Designation	Subject	Name of College/Institution	Name of University
01.	Rajashekar Perusomula	rajashekar.p@v.ac.in		9000213666	Associate Professor	Pharmacology	Vishnu Institute of Pharmaceutical Education & Research	Jawaharlal Nehru Technological University Hyderabad, Hyderabad, Telangana
02	Dr. Manmohan Singh Jangdey	manuiopresearch@gmail.com		9179988727	Professor	Pharmaceutics	Shri Rawatpura Sarkar University, Dhaneli, Raipur, (C.G.)	
03.	Nagendra Bhuwane	nagendraassam@gmail.com		7828247010	Assistant Professor	Pharmacy	Department of Pharmacy, Shri Rawatpura Sarkar University, Dhaneli, Raipur, (C.G.)	
04.	Mr. Shiv Kumar Kushawaha	shiv.kushawaha@gmail.com		08894274558	Associate Professor	Pharmacology	Laureate Institute of Pharmacy	Himachal Pradesh Technical University, Hamirpur, Himachal Pradesh
05.	Parveen Nehra	parveenbhambu564@gmail.com		9602779473	Assistant Professor	Pharmaceutics	Rungta College of Pharmaceutical Sciences and Research, Raipur, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
06.	Dr. Sandeep Kumar Sonkar	ssonkar12@gmail.com		7987142916	Associate Professor	Pharmaceutics	Rungta College of Pharmaceutical Sciences and Research, Raipur, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
07.	Saraswati Prasad Mishra	saraswatim3@gmail.com		8763032907	Assistant Professor	Pharmacology	Rungta College of Pharmaceutical Sciences and Research, Raipur, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
08.	Dr. Swarnali Das Paul	swarnali34@gmail.com		9977258200	Professor	Pharmacy	Shri Shankaracharya College of Pharmaceutical Sciences, Bhilai, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
09.	Prof. Chanchal Deep Kaur	dr.chanchaldeep@gmail.com		9826660819	Professor and Principal	Pharmaceutical Sciences	Rungta College of Pharmaceutical Sciences and Research, Raipur, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
10.	Dr. Tekeshwar Kumar	drtekeshwarkumar@gmail.com		9827985722	Principal	Pharmaceutical Science	Sanskar City College of Pharmacy, Rajnandgaon, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
11.	Upasana Thakur	upasanathakur26@gmail.com		9805309903	Assistant Professor	Pharmaceutical Chemistry	Laureate Institute of Pharmacy	Himachal Pradesh Technical University, Hamirpur, Himachal Pradesh
12.	Divya Sahu	divyasahu5837@gmail.com		9174344119	Assistant Professor	Pharmaceutical chemistry	Rungta College of Pharmaceutical Sciences and Research, Raipur, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)

Course Coordinator – Prof. Swarnlata Saraf






University Institute of Pharmacy, Pt. RSU, Raipur (C.G.)

E-mail: swarnlata-saraf@gmail.com

(27/01/2022 to 29/01/2022)

Sr. No.	Name of Participants	Email Address	Photo	Mobile No.	Designation	Subject	Name of College/Institution	Name of University
13.	Pravesh Kumar Sharma	pravesh_pharmacy@rediffmail.com		9799756747	Associate Professor	Pharmacology	Faculty of Pharmaceutical Science & Nursing, Vivekananda Global University, Jaipur, Rajasthan	
14.	Dr. Amar Deep Ankalgi	amarchemlogin@gmail.com		9772782108	Professor	Pharmaceutical Analysis and Quality Assurance	Laureate Institute of Pharmacy	Himachal Pradesh Technical University, Hamirpur, Himachal Pradesh
15.	Pragati Baghel	pragatipharma20@gmail.com		7773808140	Assistant Professor	Pharmacognosy	Chhatrapati Shivaji Institute of Pharmacy, Durg, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
16.	Ritika Singh	ritikasinh.166143@gmail.com		7067240270	Assistant Professor	Pharmacology	Rungta College of Pharmaceutical Sciences and Research, Raipur, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
17.	Pravin Kumar	kumar3785@gmail.com		9816468699	Associate Professor	Pharmaceutics	Laureate Institute of Pharmacy	Himachal Pradesh Technical University, Hamirpur, Himachal Pradesh
18.	Tarun Kumar Sharma	tarunsharmaguleri@gmail.com		9418465312	Professor	Pharmaceutics	Laureate Institute of Pharmacy	Himachal Pradesh Technical University, Hamirpur, Himachal Pradesh
19.	Shavinder Kumari	shavinderkumari.doad@gmail.com		9736439478	Assistant Professor	Pharmacology	Laureate Institute of Pharmacy	Himachal Pradesh Technical University, Hamirpur, Himachal Pradesh
20.	Rinkee Verma	rinkee08@gmail.com		9479212560	Assistant professor	Pharmaceutics	Rungta College of Pharmaceutical Sciences and Research, Raipur, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
21.	Achal Mishra	achal.mishra03@gmail.com		96910054057	Professor	Pharmaceutical Chemistry	Shri Shankaracharya College of Pharmaceutical Sciences, Bhilai, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
22.	Dr. Anshita Gupta Soni	anshita1912@gmail.com		9301988600	Associate Professor	Pharmacy	Shri Rawatpura Sarkar Institute of Pharmacy, Kumhari, Durg, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
23.	Preeti	preeti.goldar1995@gmail.com		09340464127	Assistant Professor	Pharmaceutics	Shri Rawatpura Sarkar Institute of Pharmacy, Kumhari, Durg, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
24.	Renjil Joshi	renjiljoshi48@gmail.com		9074591083	Research Scholar	Pharmaceutics	Shri Rawatpura Sarkar Institute of Pharmacy, Kumhari, Durg, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
25.	Dr. Khomendra Kumar Sarwa	khomendra.sarwa@gmail.com		7803063909	Lecturer (Gazatted Rank-I)	Pharmacy	Department of Pharmacy Govt. Girls Polytechnic, Raipur, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
26.	Ram Kumar Sahu	ramsahu79@gmail.com		9893577279	Assistant Professor	Pharmaceutical Sciences	Department of Pharmaceutical Sciences, Assam University (A Central University), Silchar, Assam	Assam University, Silchar, Assam

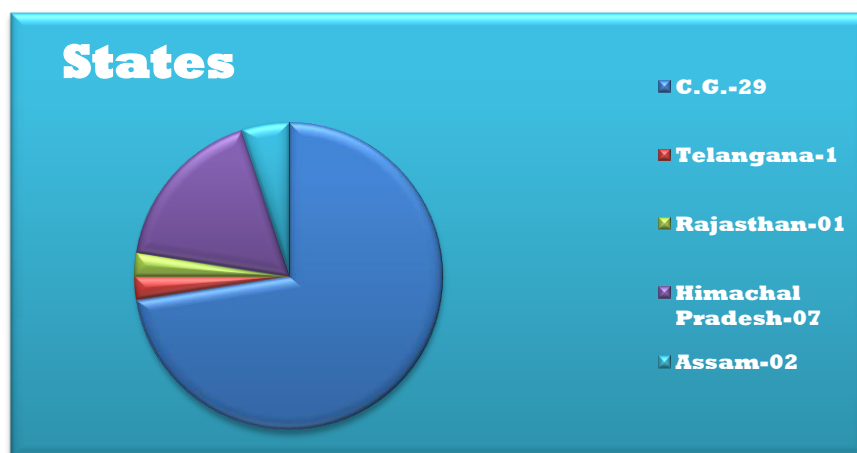
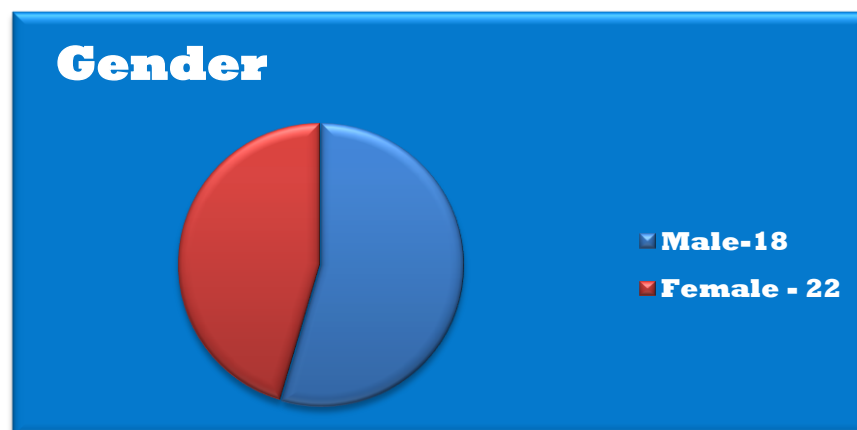
(27/01/2022 to 29/01/2022)

Sr. No.	Name of Participants	Email Address	Photo	Mobile No.	Designation	Subject	Name of College/Institution	Name of University
27.	Vijendra Kumar Suryawanshi	khanna.vijendra@gmail.com		9827876341	Associate Professor	Pharmacy	MJ College, Bhilai, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
28.	Priyanka Vishwakarma	priyanka.vish22@gmail.com		8602114468	Associate Professor	Pharmaceutics	Columbia College of Pharmacy, Tekari, Raipur, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
29.	Rabinarayan Parhi	rabi59bls623@gmail.com		9052983544	Assistant Professor	Pharmacy	Department of Pharmaceutical Sciences, Assam University, Assam	
30.	Shreya Singh	shreyasinghh1997@gmail.com		6260093784	Lecturer	Pharmacy	Rungta College of Pharmaceutical Sciences and Research, Raipur, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
31.	Roshni Sharma	sharmaroshni988@gmail.com		7772989350	Lecturer	Pharmacy	Rungta College of Pharmaceutical Sciences and Research, Raipur, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
32.	Suman Shrivastava	sumanshrivastava1991@gmail.com		9685062754	Assistant Professor	Clinical Research	Shri Rawatpura Sarkar Institute of Pharmacy, Kumhari, Durg, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
33.	Preeti Chandrakar	preetibgr@gmail.com		9575555394	Assistant Professor	Pharmaceutics	Shri Rawatpura Sarkar Institute of Pharmacy, Kumhari, Durg, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
34.	Ekta Dewangan	ekta14dewangan@gmail.com		7000155728	Lecturer	Pharmaceutics	Rungta College of Pharmaceutical Sciences and Research, Raipur, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
35.	Anju Daharia	anjudaharia02@gmail.com		7441156852	Lecturer	Pharmaceutical chemistry	Shri Shankaracharya College of Pharmaceutical Sciences, Bhilai, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
36.	Ishwari Choudhary	ishu.faih.1204@gmail.com		8269015095	Assistant Professor	Pharmaceutics	Rungta College of Pharmaceutical Sciences and Research, Raipur, (C.G.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G.)
37.	Rakesh Tirkey	rakeshtirkey99@gmail.com		8602129162	Assistant professor	Pharmacy	University Institute of Pharmacy, Pt. Ravishanakar Shukla University, Raipur, (C.G.)	
38.	Adeep Kujur	aadeepkujuruiop@gmail.com		8103599558	Assistant professor	Pharmacy	University Institute of Pharmacy, Pt. Ravishanakar Shukla University, Raipur, (C.G.)	
39.	Rinu Rana	Rinupharma@gmail.com		8628839441	Assistant Professor	Pharmaceutical Sciences	Laureate Institute of Pharmacy	Himachal Pradesh Technical University, Hamirpur, Himachal Pradesh
40.	Nikita Verma	nikitaverma510@gmail.com		8959286646	Assistant Professor	Pharmaceutics	Shri Rawatpura Sarkar Institute of Pharmacy, Kumhari	Chhattisgarh Swami Vivekananda Technical University Bhilai, (C.G.)

(27/01/2022 to 29/01/2022)

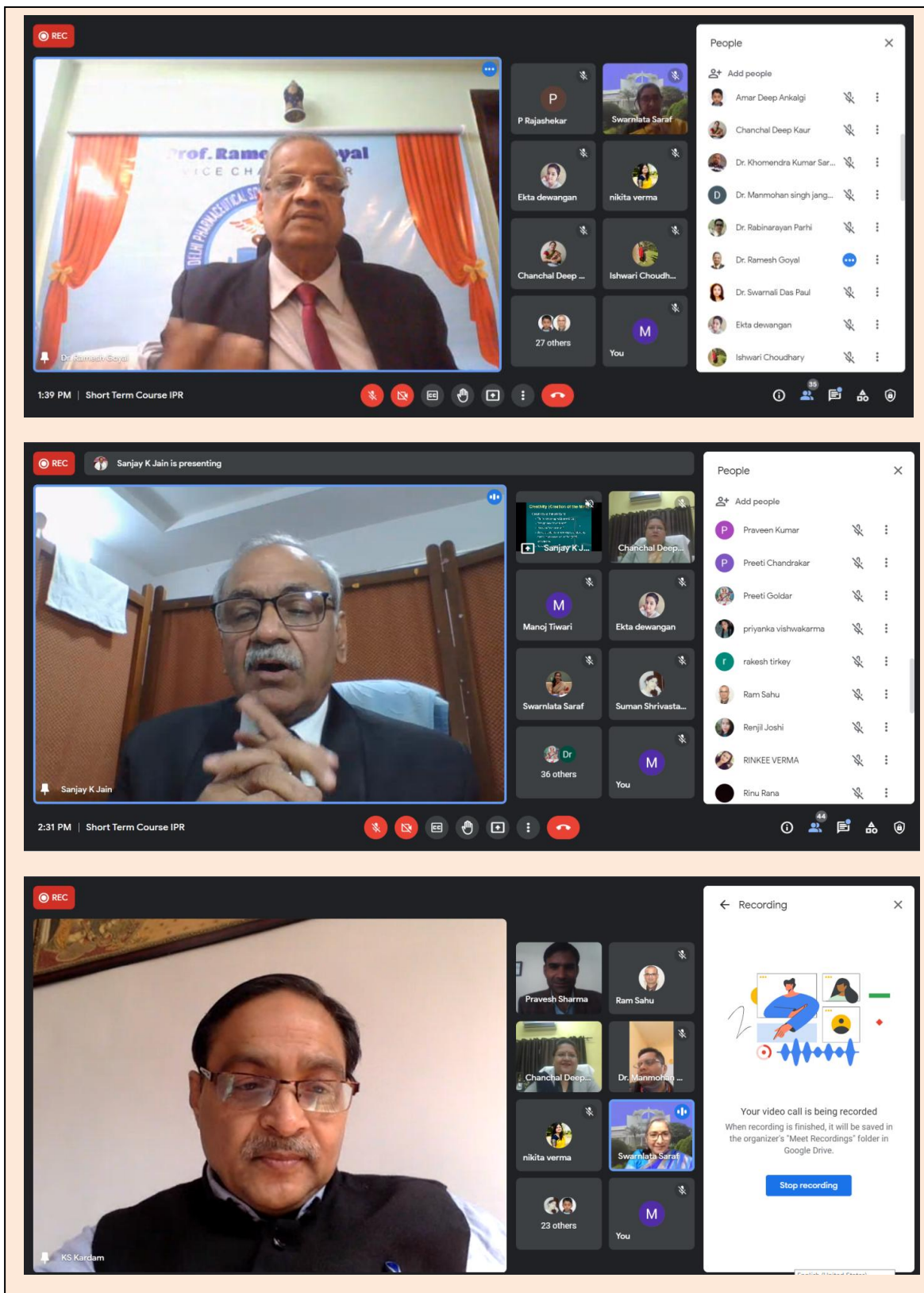
Short Term Course – Intellectual Property Right**(27.01.2022 to 29.01.2022)****Course Coordinator - Prof. Swarnlata Saraf****Chairperson and Reporter List**

Day/Date	Session I and II		Session III and IV	
	Chairperson	Reporter	Chairperson	Reporter
Day 01 27.01.2022	Rajashekar Perusomula	Ram Kumar Sahu	Prof. Chanchal Deep Kaur	Dr. Anshita Gupta Soni
Day 02 28.01.2022	Pravesh Kumar Sharma	Achal Mishra	Nikita Verma	Rakesh Tirkey
Day 03 29.01.2022	Dr. Swarnali Das Paul	Dr. Amar Deep Ankalgi	Dr. Manmohan Singh Jangdey	Adeep Kujur

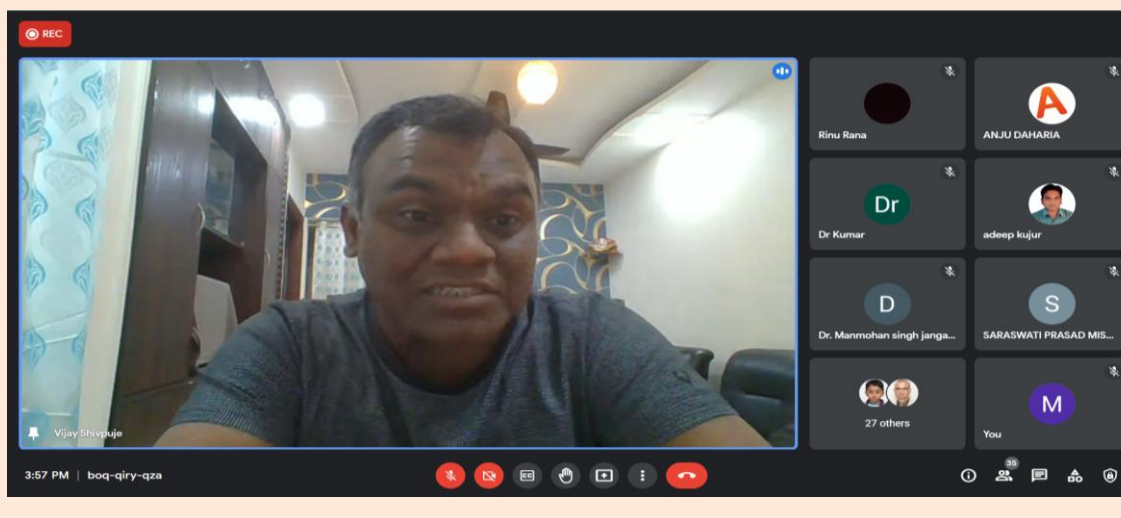
State Wise Participants**Gender Wise Participants**

(27/01/2022 to 29/01/2022)

Some Glimpses of the STC - Intellectual Property Right



(27/01/2022 to 29/01/2022)





UGC-Human Resource Development Centre
Pt. Ravishankar Shukla University, Raipur



Organized

**Online Short Term Course -
“Leadership and Capacity Building”**

September 28 to 30, 2021

Report

Name of Course/Program:	Online Short Term Course - "Leadership and Capacity Building
Name of Contact person from HRDC:	Dr. Arvind Agrawal
Date of Course/Program:	28.09.2021 to 30.10.2021
Name of Course Coordinator:	Prof. Rajeev Choudhary SoS in Physical Education, Pt. Ravishankar Shukla University, Raipur (C.G.)
Number of Participants:	27
State wise number of participants:	Chhattisgarh-12, Karnataka-01, Madhya Pradesh-01, Uttar Pradesh-05, Punjab-05, Tamil Nadu-02, Gujarat-01
No. of Resource Persons:	04

Name and Signature of Course Coordinator

Prof. Rajeev Choudhary
SoS in Physical Education,
Pt. Ravishankar Shukla University, Raipur (C.G.)

Short Term Course - Leadership and Capacity Building

(28.09.2021 - 30.09.2021)

UGC-HRDC, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh organized a short term course on Leadership and Capacity Building in Academics from 28th to 30th September 2021. The main objective of the short term course was to improve leadership and capacity building for upcoming academic as well as professional growth and development. The contents of course gave a direction to the member participants regarding leadership qualities and its importance in the profession. All resource persons were eminent personalities from different institutions. The course was also graced by the presence of **Prof. Keshari Lal Verma**, Honorable Vice Chancellor, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh. In his welcome address he motivated the participants by his valuable views and suggestions. **Prof. Shalendra Sarraf**, Director UGC- HRDC, Pt. Ravishankar Shukla University, also motivated all participants in inauguration.

Major focused areas:

- Issues related to leadership and capacity building
- General principles and theories on leadership
- Introduction of major concept which deals with academic leadership

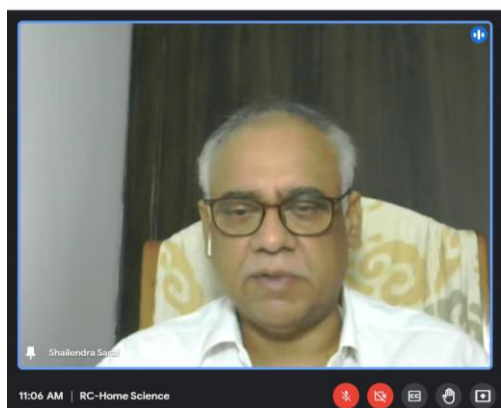
Important areas under leadership and capacity building

Detail of date wise organized program

The online Short Term Course - "Leadership and Capacity Building" was organized from 28/09/2021 to 30/09/2021. Various programmes were conducted date wise.

Day 1 (28/09/2021)

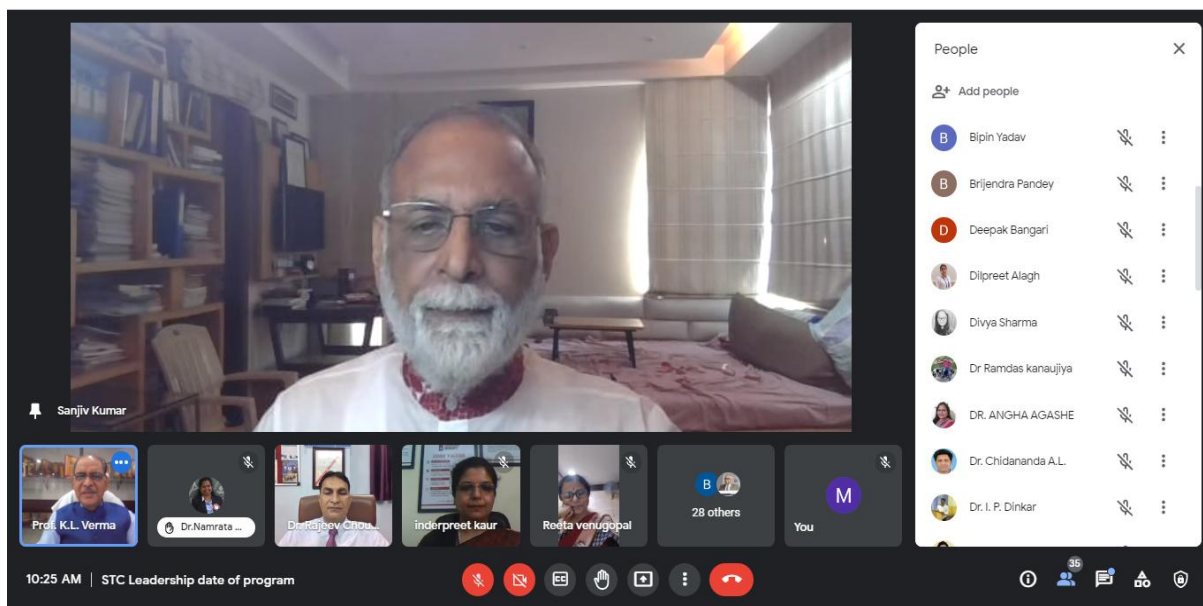
The first day of the STC was started with focused on leadership by Prof Neeta Kumar. The first session handled by her provided a detailed and informative insight to the specific topic on objectives & methodology for all the organizers and facilitators. The information shared during the session was highly appreciated by the participants. The second session focuses on Leadership in Academics and personal leadership Plan which enabled the participants to orient their leadership skills to defined directions. In session three, which was an advanced information based session related with team work and team leadership. Third was handled by Dr Preetha GS. The fourth session which was handled by Dr Sanjiv Kumar focused on the theories and concepts of leadership coaching and mentoring. All the four sessions were enriched with conclusive ideas and practical real life applications



Director, HRDC



Course Coordinator



Day 2 (29/09/2021)

Day 2 of STC comprised of four sessions among which the first two sessions were handled by Dr Sanjiv Kumar and in his session he encrypted the

leadership skills regime in a detailed manner. The subsequent two sessions were handled by Prof Neeta Kumar. Prof Neeta Kumar gave detailed information about the scientific writing and evidence to policy. These sessions were extensive and enriched with technical knowledge.

REC Sanjiv Kumar is presenting

Day 2 Session 1+0 2 Leadership Skills in Academics - PowerPoint

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1 2 3 4 5

What is your Purpose in life?

- Life without purpose is like driving a vehicle without knowing the destination.
- One may have multiple purposes in life - a purpose in professional life, in marriage, for children, in faith, or at work.
- When one has a purpose one finds work fulfilling, full of meaning and motivating.
- The purpose(s) may change at various stages in life, both at work and personal.

"The two most important days in your life are, the day you are born and the day you find out why." Mark Twain

<https://drsanjivkumar.wordpress.com/2021/08/02/purpose-driven-leadership/>

PHD Shiksha University, Lucknow-226015

10:45 AM | STC Leadership date of program

Dr.Namrata Ach... Sanjiv Kumar JAYA CHANDRA

Deepak Bangari DR. ANGHA AG... Ratan Lal

Dipreet Alagh Bindiya Rawat Dr. Rajeev Chou...

Renu Gautam 13 others You

REC Prof. Neeta Kumar is presenting

1 NEETA Scientific writing 30 sept 2021 STC - PowerPoint

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From Beginning Custom Slide Set Up Hide Slide Rehearse Record Slide Show - Set Up

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

What to write? Ask yourself:

- Have I provided solutions to some difficult problems?
- Is it a new and interesting work
- Is it a current hot topic?
- Am I duplicating previously published work?
- Am I ready to publish? May require more data/ follow up/Meaningful statistical analysis?

With delay, it loses relevance

Multinstitutional /multispecialty studies preferred

Do not write

3:20 PM | STC Leadership date of program

Prof. Neeta Ku... mrs Thanalakshmi Dr V. L. Dewangan

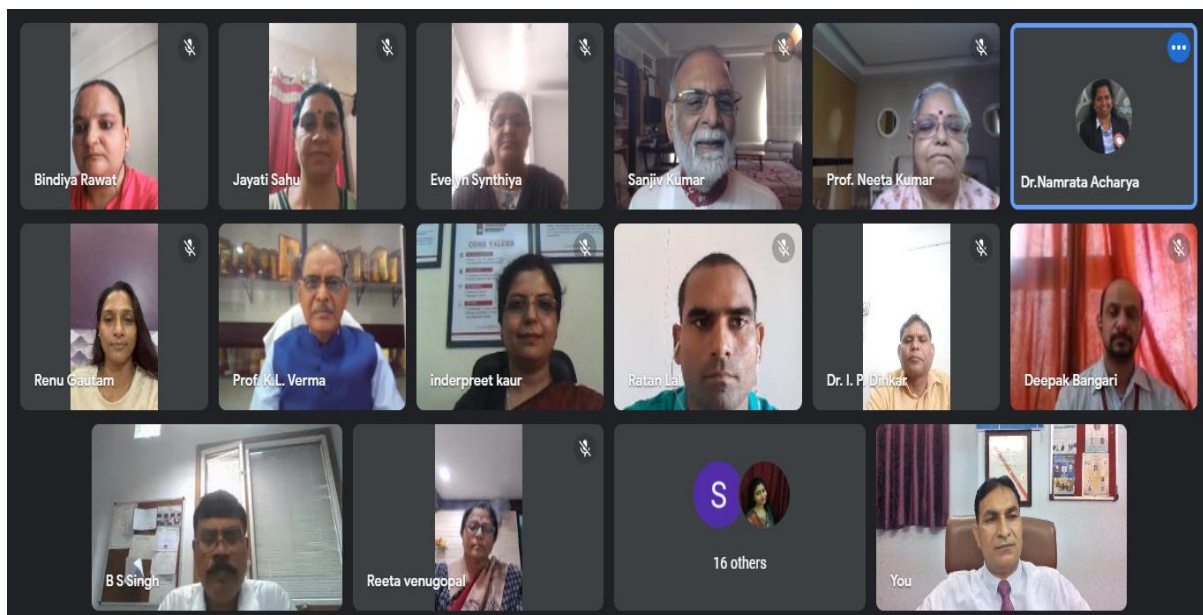
Dr. Rajeev Chou... Dipreet Alagh Evelyn Synthiya

Sanjiv Kumar Renu Gautam Dr. Namrata Shri...

Ratan Lal 12 others You

Day 3 (30/09/2021)

Third day of STC started with a session on mentoring and coaching by Dr Sanjiv Kumar. The session touched all important parameters on the topic of mentoring and coaching. The second session by Dr BS Singh was highly relevant to the present day scenario of time management. This topic was taken with much enthusiasm by the participants. The 3rd and 4th sessions lead by Prof Neeta Kumar & Dr BS Singh gave the conclusive remarks on the above presented sessions and covered the areas of personal development and leadership skills.



ORGANISING TEAM



Prof. K. L. Verma
Vice Chancellor
Pt. RSU, Raipur (C.G.),
India



Dr. Shailendra Saraf
Director
HRDC, Pt. RSU, Raipur
(C.G.), India



Dr. Arvind Agrawal
Assistant Professor
HRDC, Pt. RSU, Raipur
(C.G.), India



Prof. Rajeev Choudhary
SoS in Physical Education,
Pt. Ravishankar Shukla University,
Raipur (C.G.)

UGC - HRDC, PRSU, Raipur, Chhattisgarh
Tentative Time Table: Online Short Term Course - Leadership and
Capacity Building
Course Coordinator: Prof. Rajeev Choudhary

Date	Session-1 10.30 AM to 12.00 PM	Session-2 12.15 PM to 01.45 PM	Session-3 02.30 PM To 04.00 PM	Session-4 04.15 PM To 05.45 PM
(Day -1) 28/09/2021	Objectives & Methodology: Organizers and All Facilitators (Lead by Prof. Neeta Kumar)	Introduction to Leadership in Academics, Personal Leadership Plan: All Facilitators (Lead by Dr. Preetha GS)	Team Work and Team leadership Dr. Preetha GS	Concepts, theories of leadership coaching and mentoring Dr. Sanjiv Kumar
(Day -2) 29/09/2021	Leadership Skills Dr. Sanjiv Kumar		Scientific writing and evidence to policy Prof. Neeta Kumar	Scientific writing and evidence to policy (contd) Prof. Neeta Kumar
(Day -3) 30/09/2021	Mentoring and Coaching Dr. Sanjiv Kumar	First Things First (Time Management) Dr. BS Singh	Personal leadership development plans, follow up and conclusion: All Facilitators and organizers (Lead by Prof. Neeta Kumar & Dr BS Singh)	

List of Resource Persons

S. No.	Name	S. No.	Name
01	Dr. Sanjiv Kumar <ul style="list-style-type: none">● Founder Chair and Managing Trustee, 3D Health Leadership Foundation● Former Senior Advisor, UNICEF● Director IIHMR, New Delhi● Executive Director, NHSRC, MoHFW, New Delhi. Email: drsanjivkumardixit@gmail.com Mobile: 7678503003	02	Prof. GS Preetha Professor of Public Health, IIHMR New Delhi. E mail: preethagsunni@gmail.com Mobile: 987111210
03	Prof. Neeta Kumar Professor, Faculty of Dentistry, Jamia Millia Islamia, New Delhi. Email: neetasanjiv@gmail.com Mobile: 981125936	04	Prof. BS Singh Professor, Statistics and Research Methodology, IIHMR New Delhi Email: bssingh6412@gmail.com Mobile: 9999111739

Online Short Term Course - Leadership and Capacity Building

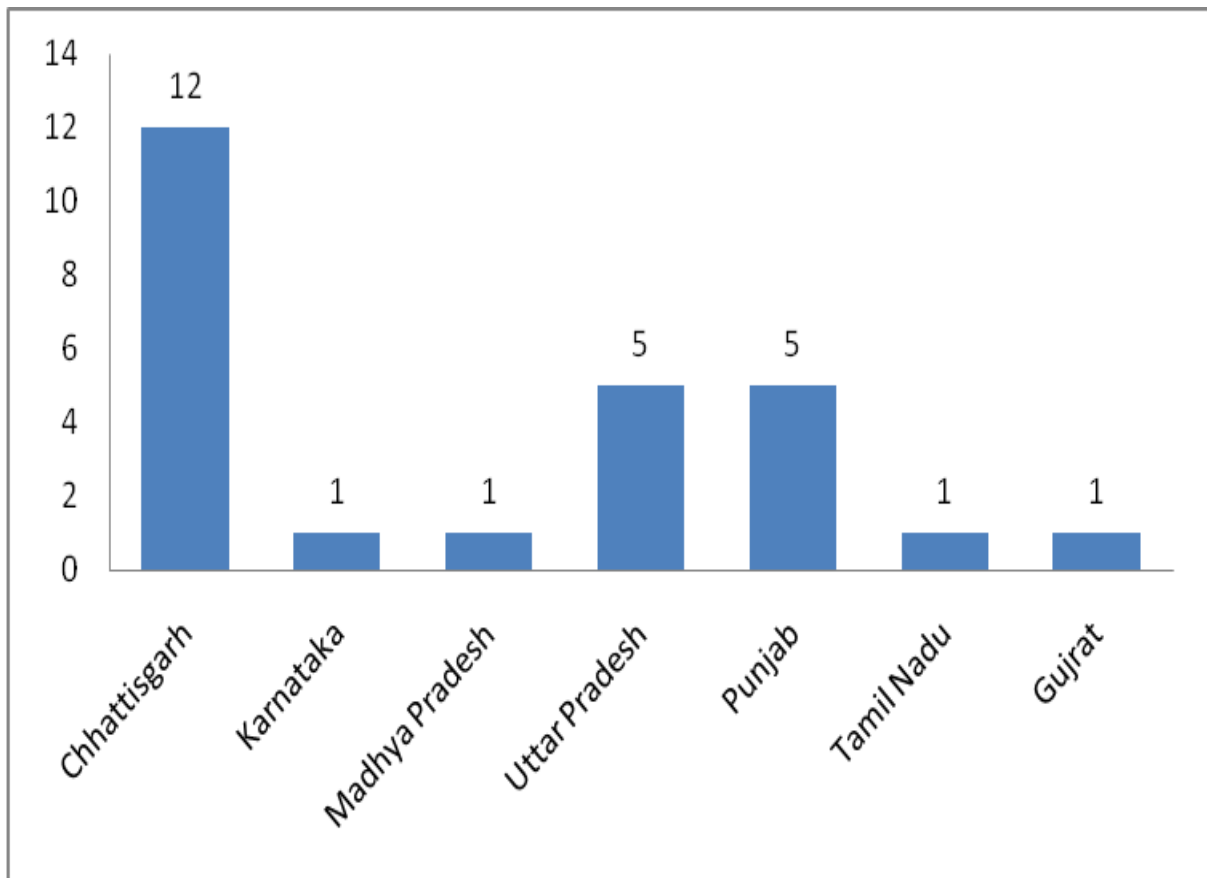
(28.09.2021 – 30.09.2021)

List of Participants

S. No.	Name of Participants	Mobile Number	Gender	Email Address	Name of College	Affiliated University
1	Bipin Yadav	9452869780	Male	bipinyadav12aug89@gmail.com	Jawahar lal Nehru Smarak P.G. College, Maharajganj, (U.P.)	Siddartha University , Kapilvastu Pachangawa, (U.P.)
2	Dr. Ranadheer Singh	9452017418	Male	ranadheersingh23@gmail.com	Dr. Ram Manohar Lohia P.G. College, Bhairotalab, Varanasi, (U.P.)	Mahatma Gandhi Kashi Vidyapith, Varanasi, (U.P.)
3	Punam Sahu	9399234337	Female	mishty810@gmail.com	Mansa College of Education, Bhilai, (C.G.)	Hemchand Yadav University, Durg, (C.G.)
4	Mamta Patle	9329336715	Female	mamtapatle51@gmail.com	Mansa College of Education, Bhilai, (C.G.)	Hemchand Yadav University, Durg, (C.G.)
5	Dr. Pushpa Sharma	9111979401	Female	drpushpasharma585@gmail.com	Mansa College of Education, Bhilai, (C.G.)	Hemchand Yadav University, Durg, (C.G.)
6	Dr. Smita Saxena	9893750431	Female	Smitasaxena8@gmail.com	Mansa College of Education, Bhilai, (C.G.)	Hemchand Yadav University, Durg, (C.G.)
7	Jayati Sahu	9399311212	Female	jayatisahu470@gmail.com	Mansa College of Education, Bhilai, (C.G.)	Hemchand Yadav University, Durg, (C.G.)
8	Ratan Lal	9409463440	Male	ratan1500@gmail.com	K.B.P.G. College, Mirzapur, (U.P.)	Mahatma Gandhi Kashi Vidyapith, Varanasi, (U.P.)
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11	Dilpreet Kaur	9729489999	Female	Dilpreet.E10259@cumail.in	Chandigarh University, Mohali, Punjab	Chandigarh University, Mohali, Punjab
12	Dr. Bindiya Rawat	9927931626	Female	bindiya.e11241@cumail.in	Chandigarh University, Mohali, Punjab	Chandigarh University, Mohali, Punjab
13	Dr. Deepak Bangari	9356032440	Male	deepak.e11248@cumail.in	Chandigarh University, Mohali, Punjab	Chandigarh University, Mohali, Punjab
14	Manisha Rani	8284033576	Female	manisha.uitr@cumail.in	Chandigarh University, Mohali, Punjab	Chandigarh University, Mohali, Punjab
15	Dr. Namrata Shrivastava	7000187740	Female	namrata.shrivastava@kalungauniversity.ac.in	Kalinga University, Raipur, (C.G.)	Kalinga University, Raipur, (C.G.)
16	Dr. Inderpreet Kaur	9781925299	Female	inderpreetkaur.pruthi@gmail.com	University Institute of Teachers Training and Research	Chandigarh University, Mohali, Punjab

S. No.	Name of Participants	Mobile Number	Gender	Email Address	Name of College	Affiliated University
17	Dr. Pradnya Karandikar	7748091962	Female	pradnyakarandikar4@gmail.com	Govt. College, Shahganj, Sehore, (M.P.)	Barkatullah University, Bhopal, (M.P.)
18	Dr. Monika Sethi Sharma	9752984666	Female	monikasethisharma@gmail.com	Kalinga University, Raipur, (C.G.)	Kalinga University, Raipur, (C.G.)
19	Dr. Ram Das	9458009988	Male	ramdasathletics@gmail.com	K.B.P.G. College, Mirzapur, (U.P.)	Mahatma Gandhi Kashi Vidyapith, Varanasi, (U.P.)
20	Dr. Evelyn Synthiya	9677017177	Female	esyns2084@gmail.com	Anna University, Chennai, Tamil Nadu	Anna University, Chennai, Tamil Nadu
21	Renu Das	9456684332	Female	renugautam121@gmail.com	Mata Bhagwati Devi Govt. Girls Degree College, Anwalkhera, Agra, (U.P.)	Dr. B.R. Ambedkar Agra University, Agra, (U.P.)
22	Jaya Chandra	7898332933	Female	jaya.chandra.edu@gmail.com	Mahant Laxminarayan Das College, Raipur, (C.G.)	Pt. Ravishankar Shukla University, Raipur, (C.G.)
23	Dr. Chidananda A.L.	9980993426	Male	friendlychidu@gmail.com	Department of Education(M.Ed), Mangalore University, Mangalagangothri, Mangalore, Karnataka	Mangalore University, Mangalore, Karnataka
24	Dr. R. Thanalakshmi	9445291151	Female	mrsthanalakshmi@gmail.com	Dr. Sivanthi Aditanar College of Physical Education	Tamilnadu Physical Education and Sports University, Chennai, Tamil Nadu
25	Dr. Angha Agashe	9425844209	Female	dranghaagashe15@gmail.com	Pandit Sundarlal Sharma (open) University, Bilaspur, (C.G.)	Pandit Sundarlal Sharma (open) University, Bilaspur, (C.G.)
26	Dr. Vijaylaxmi Dewangan	917 959 7687	Female	vijaylaxmi.vld@gmail.com	Pt. Devi Prasad Choubey Govt College Saja	Hemchand Yadav University, Durg, (C.G.)
27	Dr. I.P. Dinkar	9406011086	Male	dripdinkar@gmail.com	Pt. Devi Prasad Choubey Govt College Saja	Hemchand Yadav University, Durg, (C.G.)

State wise number of participants





UGC Human Resource Development Centre
Pt. Ravishankar Shukla University, Raipur



ONLINE

Workshop on MOOCs, Online Courses and OER
February 14 to 19, 2022
Report

Name of Course/Program	ONE WEEK WORKSHOP ON MOOCs, ONLINE COURSES AND OPEN EDUCATIONAL RESOURCES
Name of Contact person from HRDC	Dr. Arvind Agrawal
Date of Course/Program	14.02.2022 to 19.02.2022
Name of Course Coordinator	Prof. Sanjay Tiwari Professor, Head & Coordinator Institute of RETM Pt. Ravishankar Shukla University, Raipur
Theme of Course/Program	Multidisciplinary Refresher Course in Biotechnology
Number of Participants	41
State wise number of participants:	Chhattisgarh– 22, Telangana– 08, Madhya Pradesh– 04, Maharashtra- 03, West Bengal– 01, Tamil Nadu– 01, Gujarat- 01, Uttar Pradesh - 01
Gender wise number of participants:	Male: 16, Female: 25
Number of Resource Persons	14
Signature of the Course Coordinator	
Prof. Sanjay Tiwari Professor, Head & Coordinator Institute of RETM Pt. Ravishankar Shukla University, Raipur	Dr. Arvind Agrawal Assistant Professor Human Resource Development Centre Pt. Ravishankar Shukla University Raipur

Organizing Team



Prof. K. L. Verma
Vice Chancellor
Pt. RSU, Raipur (C.G.)



Prof. Shailendra Saraf
Director
HRDC, Pt. RSU, Raipur (C.G.)



Prof. Sanjay Tiwari
Professor Head
& Coordinator, Institute of RETM
Pt. Ravishankar Shukla
University, Raipur (C.G.)



Dr. Arvind Agrawal
Assistant Professor
HRDC, Pt. RSU, Raipur (C.G.)

Course Coordinator:
Prof Sanjay Tiwari, SoS in Electronics and Photonics, PRSU, Raipur
E-mail: drsanjaytiwari@gmail.com

ABOUT THE WORKSHOP

The development of any nation depends mainly on the standards of its educational institutions. A teacher has a prominent role to change the society. At present, digital learning is playing a pivotal role in teaching learning, research and extension. The role and responsibilities of a teacher is changing from time to time. At international level the UN, UNESCO and EU are stressing the need of ICT integrating teaching. At the same time, the Government of India, MHRD, UGC, AICTE, NCERT and NCT are stressing the need of Online Learning and integration of ICT in teaching, learning and thinking.

OBJECTIVES OF THE WORKSHOP

Teaching-learning process works on Push-Pull theory. While the text books push the knowledge and questions to learners, the web based open learning resources pull the knowledge and questions from the learners. To make the best use of Information and communication technology (ICT) for teaching-learning is the demand of this digital world.

By and large, teachers' role has been shifted from the knowledge creator to the knowledge facilitator and for the same Open Education Resources (OER) can play the vital role. In the modern information rich era, the role of a teacher is vital in selecting the particular information available as resources and process it in to the knowledge and ultimately to the wisdom.

With the advent of technology, e-learning is rapidly gaining importance and momentum. With the government aiming at digitizing India with its „Digital India“ initiative, educational institutes are also working in tandem to help fulfill the goal. Massive Open Online Courses (MOOC) are fast gaining popularity among students and working professionals as they help them study at their convenience and time. Massive Open Online Courses (MOOCs) are the modern day learning-platforms for the inquisitive minds, who wish to learn right from the comfort of their study-desks. Despite the physical distance between the mentor and the apprentice this mode of learning offers constructive interactions through technological aid.

In view of this UGC HRDC PRSU, Raipur has conducted an online workshop on “MOOCs, Online Courses and Open Educational Resources” for College and University teachers during 14-19 February, 2022 between 10:30 to 17:30 hrs.

NEED OF THE PROGRAMME

The Covid-19 Pandemic hit unprecedented crises has led Education sector to go for a push in its acquisition and process of knowledge and its application. At this juncture the MOOC is considered on the one hand as a panacea for education and on the other as a defilement of the sanctity of the higher education tradition. The truth will probably lie somewhere in between, and we must explore the potential of MOOCs to create a model of simultaneously teaching on-site and off-site learners, using synchronous and asynchronous teacher learner interactions to deliver high quality learning to large numbers, maybe evolve a model for a classroom of thousands of learners. Universities and Colleges are encouraged to make use of SWAYAM Online platform for learning. University Grant Commission,

Course Coordinator:
Prof Sanjay Tiwari, SoS in Electronics and Photonics, PRSU, Raipur
E-mail: drsanjaytiwari@gmail.com

Govt. of India is also encouraging the faculty members to submit their expression of Interest for developing Under Graduate and Post Graduate courses for SWAYAM platform. For faculties of Universities and Colleges to develop Online Courses, they require training so that they can design and develop Quality Online courses based on the SWAYAM Guidelines. Hence, there is a necessary for development of an online training course on SWAYAM, which will be able to motivate and guide step by step procedure for development of courses for SWAYAM. This MOOC will build the capacities of the faculty members to develop and deliver Courses not only on SWAYAM platform but also through institutional LMS.

The Workshop will be inaugurated by Prof. Kannan M. Moudgalya IIT Bombay who is a philosopher, thought leader, scientist and Lead Coordinator of Free and Open Source Software in Education & Spoken Tutorials Projects at IIT Bombay and renowned for exceptional and path-breaking contributions in digital revolution in Education through ICT. He has been a Member of the Standing Committee of the National Mission on Education through ICT, MHRD GOI.

The workshop was attended by faculty members across the country from Coimbatore, Hyderabad, Karnataka Madhya Pradesh, Maharashtra and 26 from all parts of Chhattisgarh. and involve a good interaction between the resource-person and the audience.

The main objective of the workshop was to sensitize the teaching faculty of colleges and universities about the advantages of e-learning and to encourage them towards planning, designing, developing, delivering and implementing MOOCs and other Open Educational Resources (OER) so that they can keep pace with digital revolution of the twenty first century in which technology is blended with traditional teaching-learning pedagogies for better learning outcomes. The workshop is designed to raise the capacity of the faculty to use MOOC platform for effective delivery of courses in higher education in blended as well as online modes. This workshop is a great starting point for effective teaching in the 21st century learning environment.

The workshop covered hands on training on tools for Online Teaching, Learning and Assessment with Open Educational Resources, Education Technology Tools and Moodle MOOC Platform" was to improve the quality of education and raise Gross Enrolment Ratio (GER).

The participants got fair idea about LMS and MOOCs Platform configuration & its customization and course flow activities. Moreover, the workshop will provide extensive hands-on training on installation and configuration of MOOCs Platforms. The Workshop intends to provide exhaustive information and hands-on training on e-learning and platforms for massive open online courses to faculty members working in university/colleges who are interested in e-learning and electronic content creation. During the workshop, information about open online courses on these platforms, various formats, text transcription, credit transfer schemes, joint collaborations between the institutes and industries with SWAYAM was given.

Prof K L Verma Vice Chancellor said on the occasion that as we continue to shape the future of learning

Course Coordinator:
Prof Sanjay Tiwari, SoS in Electronics and Photonics, PRSU, Raipur
E-mail: drsanjaytiwari@gmail.com

and redefine education at a 21st-century teaching and research university, we are excited to organize this workshop that will allow faculty to explore new opportunities to advance online pedagogy, create more diverse and inclusive learning environments, engage in research, and increase access to academic excellence at Pt.Ravishankar Shukla University. He further added "I highly encourage faculty to explore potential opportunities to experiment with digital education and engage with other faculty and experts on campus." We are also the first in the Central India to frame Regulation for Swayam program.”

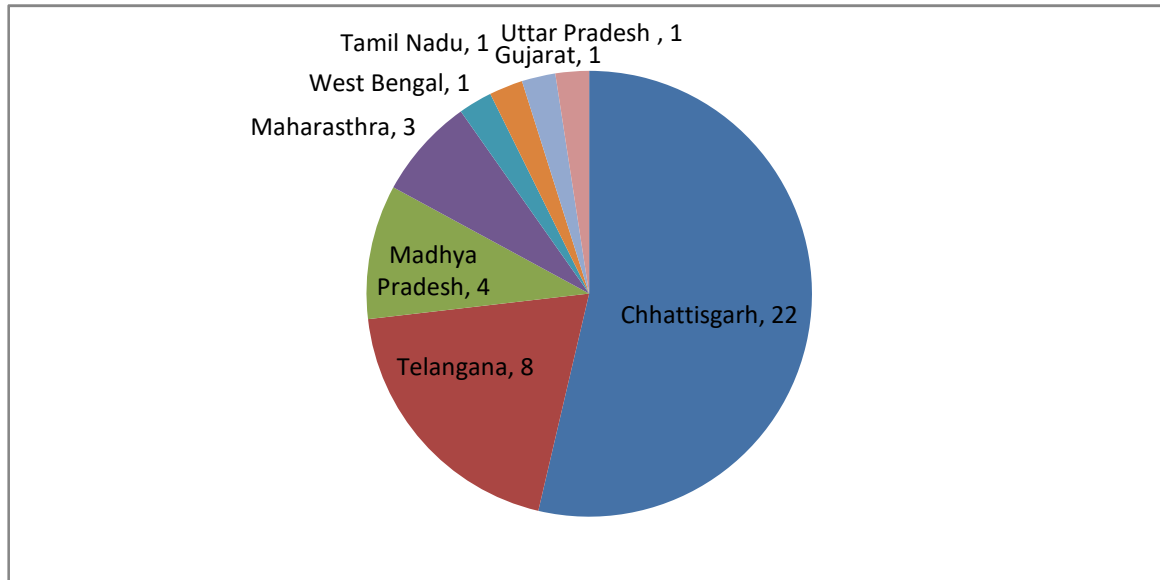
The Director UGC HRDC PRSU said Ministry of Education as embarked on a major and new initiative called 'Study Webs of Active Learning for Young Aspiring Minds'

(SWAYAM), which provides one integrated platform and MOOCs (Massive Open Online Courses) portal for online courses, using Information and Communication Technology (ICT) and covering all higher education subjects and skill sector courses. Till date over and above the 25 lakh students/learners who are already enrolled in the 571 courses of the January 2020 semester of SWAYAM. SWYAM has about 1900 courses which can be accessed by people in over 60 countries. The videos of the SWAYAM Prabha DTH TV channels are viewed by around 50,000 people every day. Credit transfer facility up to 20% is enabled through the notification issued by UGC/AICTE- „Credit Framework for online learning courses through SWAYAM Regulation 2016“. It is the endeavor of MOE to align the courses on the SWAYAM portal with the curriculum of Universities said Dr Shailendra Saraf Director HRDC

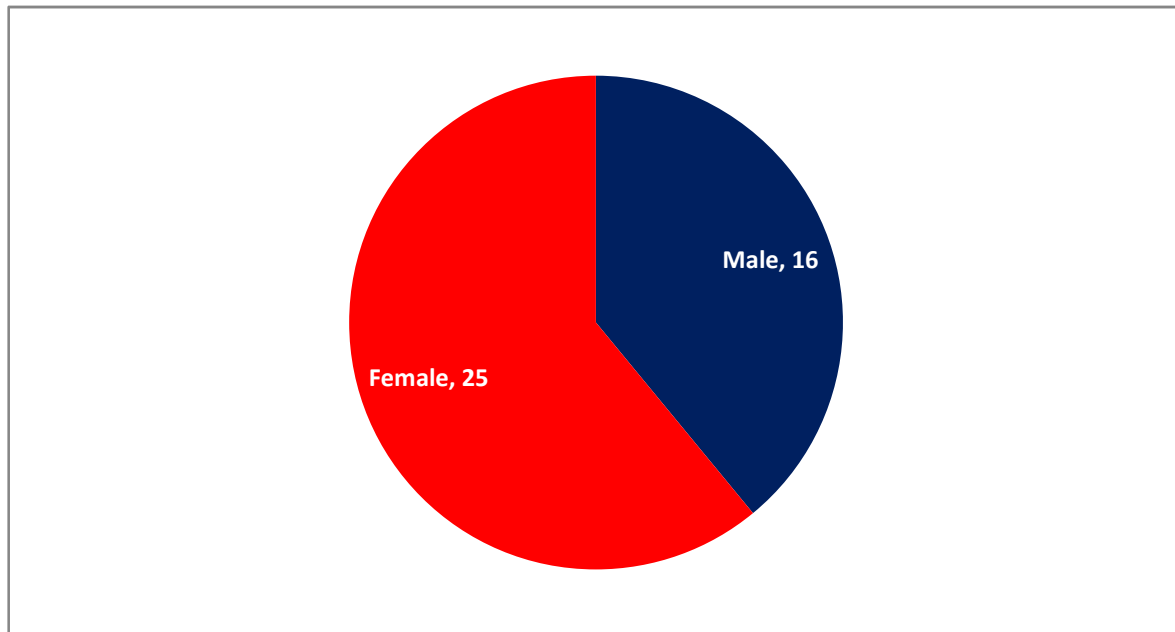
Talking about MOOCs Online Courses and OER in India, Prof. Sanjay Tiwari Coordinator of STC Workshop said the introduction of new technologies and electronic gadgets has played an important role in transforming the education sector in numerous ways. When education is coupled with technology, students and teachers find it more interesting because sharing of knowledge becomes more engaging easier and hassle free. The Covid 19 pandemic has changed everything and its right time to take advantage of digital wave to further improve our education system as it provides unique solution to reach every deserving candidate in any part of the country and reap the benefit ofdemographic dividend Arrival of Massive Open Online Courses (MOOCs) has revolutionized the higher education landscape.” MOOCs provide learners with the access to high-quality learning content along with the flexibility of pacing their learning. The Indian government has also identified the possibilities that MOOCs offer to achieve the three cardinal principles of Education Policy viz. Access, Equity and Equality, and have initiated efforts to promote MOOCs through the SWAYAM platform as well as the encouraging transfer of MOOC credits in regular university education. The biggest advantage of MOOCs is accessing study content taught by the best faculty at any given time. “

“For all MOOCs, tuition is free. Students only need to pay a nominal fee for the examination charges every semester. Currently, all certificate courses, which last for two- three months, are on offer on the MOOC platform. Prof. Tiwari added.

State wise Participants



Gender Wise Participants



DAY 1 (14/02/2022)

Session I (10:30-12:00) Inaugural Function

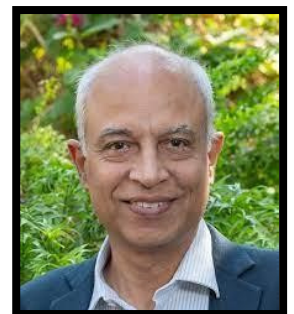
UGC Human Resource Development Centre of Pt. Ravishankar Shukla University, Raipur is organizing Workshop on MOOCs, Online courses and Open Educational Resources during 14-19 Feb, 2022. The workshop is attended by faculty members across the country from Coimbatore, Hyderabad, Tamilnadu, Telangana, Uttar Pradesh, Karnataka, Gujrat, Madhya Pradesh, Maharashtra and from all parts of Chhattisgarh. and involved a good interaction between the resource-person and the audience.

Prof K. L. Verma Vice Chancellor PRSU said Teaching in colleges across Chhattisgarh will undergo major changes with the Government keen on integrating technology in a big way. The organization of such programs by PRSU is to sensitize the teaching faculty of colleges and universities about the advantages of e-learning and to encourage them towards planning, designing, developing, delivering and implementing MOOCs and other Open Educational Resources (OER) so that they can keep pace with digital revolution of the twenty first century in which technology is blended with traditional teaching-learning pedagogies for better learning outcomes. The technology has given an opportunity to students to unshackling access to quality content and education bypassing the difficulty to get admission into the expensive institutions. The efficacy of the MOOC platform to reach the countless millions across the country is amazing. India needs to change its traditional mindset and go for innovation across the sectors if it wishes to maintain its competitive edge in the global economy.

Technical Session I (10:30 to 11:30)

Topic: Keynote Address on Spoken Tutorials

Resource Person: Prof Kannan Moudgalya, Professor, IIT, Mumbai



The Keynote speaker Prof Kannan Moudgalya the leader of Spoken Tutorial Project said project will enable visually-challenged students take lessons in information technology or computer programming in regional languages. The tutorials will involve explaining any computer-based activity with a live demonstration. The spoken part can be dubbed in any Indian language. “The tutorial captures the changes in the screen in the form of a movie, along with a running commentary by an expert. The spoken tutorial can be used to explain the steps involved in carrying out an activity, such as using some software. The spoken tutorial project is targeting everyone, including those who stay in the remotest part of the country and some tutorials have been dubbed into 15 to 16 languages.

As the commentary will be available in a local language, He said it has the potential to reduce the digital divide between urban and rural India. “There are many benefits of such tutorials. Listening to a person is better than going through written instructions. Since it can be dubbed in any Indian language, it can empower many, including those in villages, to participate in content development.

Dr. Srinivas Resource person from NIEPA, New Delhi said “Arrival of Massive Open Online Courses (MOOCs) has revolutionized the higher education landscape.” MOOCs provide learners with the

Course Coordinator:
Prof Sanjay Tiwari, SoS in Electronics and Photonics, PRSU, Raipur
E-mail: drsanjaytiwari@gmail.com

access to high-quality learning content along with the flexibility of pacing their learning. The Indian government has also identified the possibilities that MOOCs offer to achieve the three cardinal principles of Education Policy viz. Access, Equity and Equality, and have initiated efforts to promote MOOCs through the SWAYAM platform as well as the encouraging transfer of MOOC credits in regular university education. The stage is being set for effective online teaching and learning experience in a collaborative, vibrant environment by bringing into play Massive Open Online Course (MOOC). These aim at unlimited participation and open access to teachers and students through the web.

He cited the “powerful and secure Open Educational Resources (OER) like Moodle, a free learning platform that helps one create effective online teaching and learning experiences.” Developed on pedagogical principles, Moodle is used for distance education, flipped classroom and other e-learning projects in schools, universities, workplaces and other sectors.

Chairperson: Dr. Surajit Ghosh

Moderator: Dr. Rani Shantaram Kankate

Technical Session II (11:45 to 01:15)

Online Education: Moving with the Times

Resource Person:

Prof. Y Narasimhulu
Former Vice Chancellor, University of Rayalaseema



Prof. Y Narasimhulu Former Vice Chancellor University of Rayalaseema said “Use of innovative methods in classroom teaching is imperative. The expectations of students are very high and there is a wide gap. We live in the age of Facebook and Twitter where students are socially connected. Simply uploading the new modes of teaching online is not enough. We need to start transacting,” he further said It has become clear in the 21st century that online education is entering mainstream and becoming a growing market as it continues to expand access to learning for more people . Therefore, online instructors and students need to synthesize information across subjects to critically weigh significantly different perspectives and incorporate various inquiries. In doing so, they need to construct such possibilities by means of fostering critical learning spaces, where students are encouraged to increase their capacities of analysis, imagination, critical synthesis, creative expression, self-awareness, and intentionality in action. Only well-designed and effectively delivered online courses can survive to fulfill the possibility of blending the borders of the classrooms and to connect formal learning to broader space and vast social issues through an energetic online learning community Prof. S Saraf Director HRDC said while some believe that the unplanned and rapid move to online learning will result in a poor user experience that is un conducive to sustained growth, others believe that a new hybrid model of education will emerge, with significant benefits. He said he believe that the integration of information

Course Coordinator:
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technology in education will be further accelerated and that online education will eventually become an integral component of school education,“

Workshop Coordinator Dr Sanjay Tiwari said When education is coupled with technology, students and teachers find it more interesting because sharing of knowledge becomes more engaging easier and hassle free. The major advantage is that technology/electronic gadgets assist students to develop their skill sets. Technology-based education helps students to think beyond their notebooks and improve their learning skills.

The pandemic has caused serious damage to the education system and traditional education models; yet in turn, it has also empowered MOOC and Online education. He added If the students don't learn the way we teach them, we must teach them the way they learn. Technology won't replace the teachers but teachers who use technology will replace teachers who do not.

Chairperson: Dr. Surajit Ghosh

Moderator: Dr. Rani Shantaram Kankate

Technical Session III and IV (14:00 to 15:30 and 15:45 to 17:15)



Learning Outcomes:

- Understanding the Blend and Blended Learning
- Exploring the Blended Learning Eco System
- Understanding the Teacher, Student roles in BL
- Designing and Developing a Blended Learning Course
- Understanding OER and Creative Commons Licensing
- Hands-on Experience CC Content

CC Search; Youtube Filter; Google Advanced Search

The Technical Session 3 began with the welcome note by Prof. Sanjay Tiwari, Workshop Coordinator. He then highlighted the works and achievements of the Resource Person for the session, Prof. K. Srinivas. Prof. Srinivas started the session stating the three cardinal principles. He said whichever mode is followed whether Blended or MOOC- the facilitators, in order to enhance the quality of teaching-learning, should follow the three cardinal principles i.e. making it Impactful, Engaging, Interesting and Challenging He said Education should be skill-based and knowledge oriented. For this we should keep in mind the maxim

Tell me, I will forget Show me I will remember

Involve me I will understand; So as to make our teaching-learning engaging, interactive and interesting. Prof. Srinivas further added that we, the teachers/facilitators will have to adapt to change because the technology of online education and all the digital initiatives have all the possibilities to revolutionize higher education.

He talked about synchronous (live mode - Google Meet, zoom, face- to-face teaching etc.) and asynchronous (not live) learning tools in blended learning; emphasized on learning, unlearning, relearning and collaborative learning. He said that lack of enthusiasm to learn new, lack of institutional

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Prof Sanjay Tiwari, SoS in Electronics and Photonics, PRSU, Raipur
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support and poor technology infrastructure are the challenges in higher education, which we need to overcome. As a teacher, we need to maintain passion, patience and perseverance. We need to enjoy our job and put in our best to make our learners interact and engage by motivating and encouraging them during blended/online learning.

He further added that technology can never replace a teacher because technology is a means not an end. It is not a cure for all education ailments; effectiveness of technology is directly proportional to competence building, intent and right attitude, which the teachers have to develop.

In Technical Session 4, Prof. Srinivas explained at length the six essential elements for using the Blended learning Course/MOOCs/Open and Distant Learning Courses. For this he mentioned the following:

- (i) Course Planning and Designing
- (ii) Selecting Appropriate Pedagogy
- (iii) Content Developing (create and curing)
- (iv) Delivery Platforms (synchronous and asynchronous)
- (v) Course Transaction
- (vi) Activities and Assessments and Interaction

Prof. Srinivas elucidated about with the four quadrant instructional approach- e- Tutorials, e-Contents, Discussion Forum and Web Resources and Self-Assessment. In addition to this he provided hands-on training on Designing, developing and delivering a sample MOOC COURSE. A specimen project work was shown by Prof. The participants were given a task to prepare a two-week blended learning course with four topics of the subject covering in-class learning activities (2days/week) using four quadrant instructional approach. The resource person shared useful links and sources - Digital Initiatives of GOI and State Governments in Higher Education like- UGC MOOCs, NDL, NROER, FOSSEE, VLABS and many more to be used as supplementary resources in teaching-learning. He further demonstrated how to prepare the blended learning course. Prof. also made the participants understand the concept of OER- Open Educational Resources, which are freely available online for everyone to use- instructor, student and self-learner. He said OER includes- full courses, quizzes, pedagogical materials, games and many more materials contained in digital media collections from around the world. Lastly, Prof. Srinivas dealt with Creative Commons- a non-profit organization that enables the sharing and use of creativity and knowledge through free legal tools. He summarized the talk and concluded the session. All in all Technical Session 3 and 4 by Prof. Srinivas were very informative, engrossing and provided new learning to the participants. The session concluded with the formal vote of thanks proposed by the chairperson of the session Dr. Seema Arora.

Chairperson: Dr. Shilpi Shrivastava
Seesion-3

Dr. Seema Arora
Seesion-4

Moderator: Dr. G. Veera Senthil Kumar

Moderator: Dr. Lokeshwar Prasad

DAY 2 (15/02/2022)

Technical Session I (10:30 to 12:00)

Student Centric MOOC Activity

Resource Person: Prof. Chanda Jain, Head Training and Placement Institute of Technology and Science, Ghaziabad



MOOCS IS A WAY TO SHARE HIGH-LEVEL LEARNING WIDELY AND SUPPLEMENT TRADITIONAL CLASSROOMS: DR. KALPANA KANNAN, IIT BOMBAY.

With the objective to enhance the quality of teaching in the country, the MHRD is emphasizing on the use of the Massive Open Online Courses platform SWAYAM to update the teaching technique of 1.5 million higher education faculty with the focus on new and emerging trends. Massive Open Online Course (MOOC) and e-content generation contribute significantly towards honing creative thinking and innovative learning among the students and at the same time help the faculty to update their knowledge and skills through such faculty development programmes. Massive Open Online Courses (MOOCs) are gaining traction all over the world to provide unlimited participation and open access to quality education via web. The visitors to the top three MOOCs platforms (Swayam, Udemy, FutureLearn, Coursera and edX) are from the United States, followed by visitors from India. This shows the tangible interest in MOOCs in India with their cost effectiveness and potential to reach a large number of learners. MOOCs provide us the opportunity to broaden the access to quality education at all levels. She focused on Student centric MOOC Activity Development. Addressing the participants she said, “MOOCs are expanding in popularity and scope, and several new courses are being designed and implemented in a variety of contexts & the discussion around MOOCs is growing too. There are still not many advances in the pedagogical format, and many MOOCs end up being an online version of the traditional lecture format. At the same time, several problems have been reported, such as, lack of learner engagement, low participation in forums and low completion rates. To address these challenges, we present the Learner-Centric MOOC model: a prescriptive model consisting of a set of guidelines, activity formats and actions for MOOC creators. The LCM model guides instructors in conceptualizing, creating and conducting a MOOC, while maintaining a learner-centric pedagogical approach at its core. The LCM model consists of four structural elements: Learning Dialogs, Learning by Doing activities, Learning Experience Interaction and Learning Extension Trajectories, and Orchestration dynamics.” She explained how LCM satisfies the four basic quadrants of MOOC & Swayam. The learner-centric MOOC (LCM) model has formed the basis for several online and blended courses on NPTEL and IITBombayX platforms.

Chairperson: D. Illakkiam

Moderator: Mrs. G Joseph Mary

Course Coordinator:
Prof Sanjay Tiwari, SoS in Electronics and Photonics, PRSU, Raipur
E-mail: drsanjaytiwari@gmail.com

Technical Session II & IV (12:15 to 13:45 & 16:00 to 17:30)

An overview of MOOCs

Resource Person:

Dr. Kalpana Kannan
Senior Project Manager
Department of Computer Science &
Engineering, IIT, Mumbai



The session was followed giving overview on MOOCs by Dr. Kalpana Kannan Senior Project Manager Department of Computer Science and Engineering IIT Bombay. She said, “MOOCs is a way to share high-level learning widely and supplement traditional classrooms”. Dr Kalpana shares her vision of MOOC blended learning, where teachers create the ideal learning experience for 21st century students. Three cardinal principles of Education Policy viz., access, equity and quality. She added it is must to bridge the digital divide for students who have hitherto remained untouched by the digital revolution and have not been able to join the mainstream of the knowledge economy.

She said, “Technology plays vital role in making the education more vibrant and faculties need to integrate technology seamlessly into the curriculum instead of viewing it as an add-on, an afterthought, or an event”. The technology itself is not transformative, it's the institution, the pedagogy that is transformative. She explained various methodologies of teaching by using digital tools. She encouraged the participants for using open educational resources/ softwares. Usage of available OER softwares make the presentations & class more interactive.

Chairperson: Dr Anil kumar Singh

Moderator: Dr. Hemlata Borkar Wasnik

Technical Session III (14:15 to 15:45)

An overview of MOOCs

Development Resource Person: Dr. P. Malliga
Head I/C Department of Educational Media
and Technology
National Institute of Technical Teachers
Training and Research (NTTTER) Chennai



Dr. P. Malliga Head i/c, Dept. of Educational Media and Technology, National Institute of Technical Teachers Training and Research (NITTTR) Chennai discussed on Need for E-Content Development and Authoring Tools in 3rd Technical session. She told that contents which available at MOOC are in various format that are useful resources to the students at a various

Course Coordinator:
Prof Sanjay Tiwari, SoS in Electronics and Photonics, PRSU, Raipur
E-mail: drsanjaytiwari@gmail.com

understanding levels. It could be used numerous times and it supplies the information round the clock. Contents could be in Image, PDF, Document, Audio & Video in these sites. Multiple Choice Questions are reliable methodology that ensures the understanding of the students.

She further added, “Education is not a vessel to be filled but a fire to be kindled”. & explained how we can give assignments, MCQ etc. to students and ask them to submit within prescribed limit and monitor their performances through assessments after giving course content.

Chairperson: Dr. Mary Vinaya Sheela Moderator: Dr Maneesha Saxena

Chairperson: Dr Anil kumar Singh Moderator: Dr. Hemlata Borkar Wasnik

DAY 3 (16/02/2022)

Technical Session I & II (10:30 to 12:00 & 12:15 to 13:45)

Open Educational Resources

Resource Person:

Prof. Pradeep Kumar Mishra
Director CPRHE
National Institute of
Educational Planning
and Administration, New Delhi



Prof. Pradeep Kumar Misra, Director CPRHE National Institute of Educational Planning and Administration, New Delhi. He elaborated about Open Educational Resources. The session was interactive as numerous brainstorming questions related to copyright & open access was discussed. Speaking about the OER movement he said that The Indian government approved an open license policy to bring all the new digital learning resources as OER under BY-SA licenses. A number of OER Initiatives have already started, including: National Repository of Open Educational Resources (NROER), National Programme on Technology Enhanced Learning (NPTEL), eGyankosh, Project Oscar and NIOS: OER Repository. Among the population of 1.27 billion people in India, 228 million are enrolled as students at school level and 18.5 million at higher education level. Hence, a need and importance of OER as a cost-effective mechanism to provide quality resources becomes self-evident.

He added that Teacher education nowadays needs a change in vision and action to cater to the demands of changing societies. Reforms, improvements, and new approaches in teacher education are an immediate need. Online training of teachers using OER has emerged as a new approach in this direction. This approach will facilitate mass training of teachers as per their convenience and ease and will be helpful in filling the huge gap in demand for skilled teachers. The other assumption is that being OER-

based training, it will be easy to adapt it to different cultures and languages. During his interactive session he emphasized on OER definition, its types, principles & creative common license. He explained how to prepare the content with the help of creative common license & without violating copyright norms

Chairperson: Dr. Ritika Waghay Moderator: Dr.A.N.P.P.Anantha

Technical Session III (14:15 to 15:45)

Tools for Teaching & Learning (Hands-on Practice)

Resource Person:

Dr. Ramesh Chander Sharma
Professor, School of Global Affairs
Dr. B. R Ambedkar University, New Delhi



Dr. Ramesh Chander Sharma from Ambedkar University Delhi. He is Instructional Design and Chairperson of the Committee to facilitate adoption of MOOCs for SWAYAM. This hands-on session intensified the interest to convert all your documents to interactive flipbook. He demonstrated how you can make your documents better by use of applications which are freely available like ANYFLIP. Easy to use, Responsive across all devices, Improved visual appearance of your PDF files, Easy to share, Security options, SEO optimization capability, Insightful marketing statistics are few of its advantages. ANSWER GARDEN is another interactive way to collect the reviews, comments & feedback. Teachers can use AnswerGarden to pique interest before beginning a unit and access prior knowledge by having students respond to a question, or they can use it as an exit ticket response at the end of a lesson for general assessment. AnswerGarden can also be used for quick relationship-building questions that don't relate to any specific content. It can be used, too, in professional development (PD) or other speaking engagements for audience participation, He said.

UGC – Human Resource Development Center, Pt. Ravishanker Shukla University Raipur (CG) organized 6-Days online workshop on MOOCs, Online Courses and Open Educational Resources from 14th -19th February 2022. Day one start with Inauguration Function. At every day 4- technical session was conducted. Mrs. Preethi Rathi, Assistant professor, St. Joseph's Degree and PG College Hyderabad was the chairperson of third technical session of day -3. Dr. Ramesh Chander Sharma, Educationist, Professor, School of Global Affairs Dr. B. R Ambedkar University, New Delhi was the speaker of this session. The introduction of speaker was enthusiastically done by Mrs. Preethi Rathi. Dr. Ramesh Sharma delivered a fabulous demonstration on flip book, talk and comment-voice note anywhere, pixabay.com for sharing copyright free images, videos and music, unsplash.com for free images and pictures, answergarden.ch for collect the feedback. The session was very interesting and interactive. All the participants enjoyed a lot. The aim of this session was to explore the various tools of online teaching & learning for participants. 40 participants were actively participated in this online workshop. At the end of the session we successfully achieved the expected outcome by the participants. The session was concluded by Dr. Sanjay Tiwari, Prof. Head & coordinator, Institute of RETM Vote of thanks was done by Ms. Komal Shelke, Assistant Professor, MNG Science College, Babhulgaon. Dist. Yavatmal.

Chairperson: Mrs Preethi Rathi

Moderator: Ms. Komal Babanrao

Technical Session IV(16:00 to 17:30)

Creating Video based Lessons

DevelopmentResource Person:

Dr. P. Malliga
Head I/C Department of Educational Media
and Technology
National Institute of Technical Teachers
Training and Research (NTTTER) Chennai



Dr. P. Malliga Head i/c, Dept. of Educational Media and Technology, National Institute of Technical Teachers Training and Research (NITTTR) Chennai discussed on Creating Video based Lessons in last Technical session of today. She explained about Steps to Create a Video-Based Education Course Identifying the Learning Goals, Choosing the Correct Authoring Tools, Providing Instructions in Chunks, Building Video- Ready Slides, Defining Time Limit are the basic steps for creating interactive Video.

She further demonstrated H5P, Videonote.es, edpuzzle etc. These application gives you access to lots of different interactive content types & allow you to easily share and reuse content. To reuse content, you just download the application you would like to edit and make your changes – e.g. translate to a new language or adjust it to a newsituation.

She added that, “This type of activity can be used in any online classroom setting. It is aimed to improve student knowledge on fundamental concepts in your course. In this activity, teachers upload their video about content, or their lecture, and lock specific moments in the timeline with practice questions. Students have to answer these questions first before they can continue to watch the rest of the video. Students have the opportunity to go over the video material provided and practice their knowledge on the topics followed to further improve their knowledge and readiness for assessment. The teacher keeps track of the analytics, keeping track of the students” performance and engagement, to find out what questions students struggle with. This can be done via theteacher dashboard or the .csv export.

Chairperson: Dr. Anjali Bhatnagar

Moderator: Dr Yogita Jiwane

DAY 4 (17/02/2022)

Technical Session I & II (10:30 to 12:00 & 12:15 to 13:45)

Designing MOOC through MOODLE [Moodle Cloud Registration, Moodle App Installation] [Hands-on Practice]

and

Designing MOOC through MOODLE: Course Announcement, New, Announcements [Hands-on Practice]



Development Resource Person:

**Dr. Deepak Bishla
System Administrator
IT Department
Dr. B. R. Ambedkar University Delhi**

Education is not a vessel to be filled but a fire to be kindled, with this insightful view the initial two sessions of 04th Day started by Dr. Deepak Bishla, System Administrator, IT Department, Dr. B. R. Ambedkar University Delhi. In his sessions he focused about Conceptual Design: Inputs for Design, Develop & Deliver and Designing MOOC Through MOODLE. According to him, “Teaching methodologies are no more confined to classroom activities. Learning now involves more technology than it ever did. The dynamic and sturdy rise in edutech is contributing to the development of new teaching methodologies. These methodologies focus on the holistic development of the learners with innovative teaching-learning methods. The use of animation in education facilitates educators and learners in a variety of ways. Not only it assists learning but also gives educators freedom to use a combination of teaching methodologies. They can quickly pick-up an animated video about a topic and show it to the learners for better understanding. Various teaching methodologies focus on the holistic development of the learners with innovative teaching-learning methods. The use of animation in education is another such development in tech that is continuously evolving. Its various advantages mentioned in this article make it an attractive learning solution for all levels.

He explained how animation in education makes use of visuals for learning? Animation presents abstract concepts through visuals to provide learners a clear picture of the lesson. Animation in education is all about interactive learning. It incorporates various learning styles in one. As the learners indulge in the enriching visuals, they participate in the learning process. Educators can use animation to create lessons as well as assessments that engage learners. Different teaching methodologies can serve their purpose with the help of animation.

While giving hands-on in different tools of Screen Recording, Video Editing, Animation, he demonstrated about Powtoon & Plotagon, Both application facilitates you to create your own animation. Powtoon can be used for creating short video presentations. It gives the ability to create videos and presentations. You can select from free libraries of animation, live-action video, images, designed backgrounds, soundtracks, and moving graphics, or you can use your own visual content and voiceover at the same time using Plotagon Education, students can create animated movies, make characters, and write plots about any subject matter. It provides a plethora of ideas for any class, from language arts to social studies to math and even social skills.

During the first technical session, Dr. Deepak Bishla mainly focused on designing “MOOCS through Moodle. Firstly, he explains why do need MOOCS on MOODLE. He highlighted the open educational resources. He also talked about ICT tools for Teaching Learning Purpose (LMS). He discusses about systematic approach for online classes. He provided clarity about copywrite and open educational resource. He explains the use of Freecam software and Plotagon application with live hands-on practice.

During the second technical session, Dr. Deepak Bishla sir briefly discusses how to develop MOOCS through MOODLE. He

explains how to create own MOODLE account on gnomio.com He briefly discusses about Moodle learning system likes creation method in Moodle, Course creation, Resource uploaded, Enrollment of students, Assessment method etc. He also given detailed information about Swayam platform. He suggests creating video and upload on YouTube and develop content and save on google drive. He also provided extremely useful tips to secure from cyber threat. Forty-one participants of different colleges/Universities from all over India have participated in the workshop and make it success. The vote of thanks delivered by Dr. Rameshwar Tiwari Assistant Professor, Chhindwara Madhya Pradesh. In mid of first and second session the Workshop Coordinator, Prof. Sanjay Tiwari explained the participants on how to create video of their presentation using Slideator and make it more interactive. He discussed and demonstrated the advantages of using slideator and other video presenter tools.

Chairperson: Dr. Mitulkumar Parmar Moderator: Dr. Rameshwar Tiwari

Technical Session III (14:15 to 15:45)

Creation of MOODLE platform and upload the activities and resources

Development Resource Person:

Dr. Praveen Kumar
Vijaya Teachers College, Bengaluru



The Technical Session 3 began with the welcome note by Prof. Dhirendra Singh Kshatri Chairperson of this session. He then highlighted the works and achievements of the Resource Person for the session, Prof. Praveen Kumar. The session was based on “Creation of MOODLE platform and upload the activities and resources”. He told that Educational institutions around the world are using e-learning platforms to improve their teaching and learning activities, a development made possible by the rapid expansion of information and communication technologies. Institutions are now using learning management systems such as Moodle, Blackboard and many more tools. They provide features such as resources and activities to design and implement online courses. Successfully adopting e-learning depends on addressing various factors.

Emphasizing over Online Educational Learning Environment he said, “Moodle is used for blended learning, distance education, flipped classroom and other e-learning projects in schools, universities, workplaces and other sectors. With customizable management features, it is used to create private websites with online courses for educators and trainers to achieve learning goals. Moodle allows for extending and tailoring learning environments using community-sourced plugins, Moodle is a free and open-source learning management system (LMS) written in PHP and distributed under the GNU General Public License. Developed on pedagogical principles. As an E-learning tool, Moodle has a wide range of standard and innovative features such as a calendar and a Gradebook.” He added that contents which available at MOOC are in various format that are useful resources to the students at a various understanding levels. It could be used numerous times and it supplies the information round the clock. Contents could be in Image, PDF, Document, Audio & Video in these sites. Multiple Choice Questions are reliable methodology that ensures the understanding of the students. Further he demonstrated Moodle using Gnomio, he explained about creating course, quizzes & evaluation process.

Prof. Praveen Kumar in his talk highlighted the importance of ICT tools in enhancing teaching learning. He said that we the Indian teachers are lagging behind in the knowledge of digital tools as compared to abroad. But it is a happy thing now Indian teaching fraternity is updating upgrading themselves in ICT tools.

He said, Moodle is a vast area and fusing ICT tools in teaching learning will bring a tremendous change. He advised the participants to explore and expose themselves to ICT tools to become an efficient teacher. This will help you to become a 21st century teacher for the 21st century students. Further he added that we can add activities in Moodle platform. So Moodle is a complete package helpful for both teachers and students. He instructed all the participants to create an account in the Moodle platform.

Next, prof. Praveen discussed and explained about the VARK Model of Moodle. He taught us how to create Moodle account in Genomia and Moodle Cloud. He elaborated on how to create Examinations on Moodle.

In Technical Session 3 by Prof. Praveen were very informative and provided new learning to the participants. The session concluded with the formal vote of thanks proposed by the Reporter of the session Dr. Shubhra Mishra.

Chairperson: Dr. Dhirendra Singh Kshatri

Moderator: Dr. Shubhra Mishra

Technical Session IV (16:00 to 17:30)

Learner Centric MOOC Model (LCM) Overview	
Development Resource Person:	Annapurna Madhuri Active Learning Workshops, Head, SMIORE Academy for Teacher Training, Sandur



The session was followed by giving overview on Learner Centric MOOC Model by Annapurna Madhuri, Active Learning Workshops, Head, SMIORE Academy for Teacher Training, Sandur. She emphasized about constructive feedback, LeD & LbD activities. She said, “Learning by Doing is a formative assessment activity. What this means is that learners get sufficient and multiple opportunities to practice, to apply, and get feedback on their work. If we look at the structure of an LbD, the learners first do an activity such as solve a problem or click on the choice to the answer of a question and then they get feedback. This feedback is formative. That means it helps the learner take stock of where their work is at the current point and helps them improve and revise their work so that they get closer to the learning goal. LbD activities help learners towards the goals of concept attainment or immediate application of some content or integration of knowledge” To summarize, while creating an LbD activity, we need to start with the learning goal, “is it concept attainment, application, integration of knowledge”. We can use our teaching experience to decide the pedagogical goal and the pedagogical type and we need to explore the platform to decide the format of the question and then combine all this using our creativity. She added that the loop of formative assessment is closed when the learner gets feedback on their current work and also pointers on what they should do next?

Sameer Sahasrabudhe is the Director, Educational Multimedia Research Center (EMMRC), Pune, India. Prior to this, as a Research Scientist at IIT Bombay, he has contributed in the development of the Learner – Centric MOOC (LCM) model at the IDP-ET; and the MOOCs platform: IITBombayX at the Dept. of CSE, IIT Bombay. Sameer Sahasrabudhe supported the sessions by Annapurna Madhuri & Dr. Sarika Chouhan who are members of active learning workshop group.



Chairperson: Dr. Santu Ram Kashyap

Moderator: Dr. Rinkesh Bhatt

DAY 5 (18/02/2022)

**CONVERSATIONAL COMPUTING, INTERACTIVE QUIZZES AND GAMES
WITHIN THE PROGRAM CONTRIBUTE TO THE OVERALL DEVELOPMENT OF
AN INDIVIDUAL**

When you are preparing for a presentation, you want it to be engaging and memorable. Yet after giving and attending various presentations, you may be aware of how the audience can lose interest in a presentation shortly after that presentation kicks off. Those are typically the presentations which lack the “interaction”, where the presenter takes the lead all of the time and give no chance to the audience to really participate in. However, you may be unsure of how a speech can be considered “interactive” and attention-drawing, and how you can transform yours into wonderful presentations. The initial two sessions of 05th Day was based on that theme. The session was taken by Prof K.Thiyagu, School of Education, Central University of Kerala in which he focused about Tool for creating and delivering amazing Presentations and Formative and Summative Assessment Tools.

Technical Session I & II (10:30 to 12:00 & 12:15 to 13:45)

**Tool for creating and delivering amazing Presentations
and**

Formative and Summative Assessment Tools

Development Resource Person:

Dr. K. Thiyagu
Department of Education
School of Education Central University of
Kerala Tejaswini Hills Periyar, Kasaragod,
Kerala - 671 320



Learning Outcomes:

- Understanding the how to prepare power point presentation.
- Exploring the various applications
- Explaining all the modern tools such as Pixton, Pexels, Unsplash, Infographic, Flaticon and Slido.
- Demonstrate every tools with examples.

The Technical Session 1 began with the welcome note by Dr. Annu Verma, session chair. She then highlighted the works and achievements of the Resource Person for the session, Prof. K. Thiyagu.

Prof. Thiyagu started the session with modern tools. He demonstrated each tools and given excellent examples.

He explored all the tools and explained practical importance in online Education System. He demonstrated and installed every modern tools which is as follows:

1. PIXTON
2. UNSLASH
3. INFOGRAPHIC
4. FLATICON
5. SLIDO

The session concluded with the formal vote of thanks proposed by the Moderator/Rapporteurs of the session Dr. Rakesh Singh Dhundhel.

Attendance: Total 43 participants were present including expert and coordinator.

He said, “Most of the time, we have come to terms with conditional, old-styled presentations which are monologues by the

speaker. They give information, they give out slides with tons of text, and they speak – seeing their audience glaze over and start to glue their eyes to their phone screens. On the other hand, interaction makes audience truly a part of your presentation by creating a connection between you and them. It is the sense of engagement that gets them to be willing to listen to you, and subconsciously more perceptive of your ideas. On the scientific side, activities speak 70% more than mere words! With interaction, the audiences are not only more focused during your presentation, but also retain the information for a much longer time than when they simply listen”. He gave hands-on to tools like Pixtor, Pexels, Unsplash, Slidekit, Flaticon, Slido, Peardeck and many more during his sessions.

Chairperson: Dr. Annu Verma

Moderator: Dr. Rakesh Singh Dhundhel

Technical Session III (14:15 to 15:45)

Designing MOOC Through MOODLE [Moodle Cloud Registration, Moodle App Installation] [Hands-on Practice]

Development Resource Person:

Dr. V. P. Joshith
Department of Education Central
University of Kerala
Tejaswini Hills, Periyar (PO), Kasargod,
Kerala



Learning Outcomes:

- The purpose of this course is to highlight the importance of designing an effective compensation system which is equitable & motivates the employees & acts as an effective retention strategy. Exploring the various applications.
- The objective of the course is to provide the student with an understanding of basic management concepts, principles & practices.
- Introduction to training, structure, need assessment and evaluation of training.
- Demonstrate every tools with examples.

The Technical Session 2 began with the welcome note by Dr. Sanjay Tiwari, Workshop Coordinator. He then highlighted the works and achievements of the Resource Person for the session, Dr. V. P. Joshith.

Dr. V. P. Joshith started the session with Gnomio.com. He explained each process one by one and more focussed on registration process to all the participants. He explored all the process like registration, password setting, category creation, course creation etc. The session concluded with the formal vote of thanks proposed by the Moderator/Rapporteurs of the session Dr. Anita Singh.

Dr. V. P. Joshith from Central University of Kerala was the resource person for third session of today's workshop. Dr. Joshith discussed about OER and many other applications available over internet. Likewise hands-on on gnomio made the session much interactive. He demonstrated then how these technologies have now made system much efficient and made assesment process far easier. These tools can be easily deployed in the classroom environment to make the learning more interesting. He explained how we can generate report student wise, question wise, performance wise etc. During the session he explained how to create the account on Moodle and what all process which needs to be followed for devlopment of e-content for MOOCs & Moodle. Participants gained knowledge on how to modify & update the details in Moodle account.

Describing about adding a resource or an activity to the course he said to follow simple steps comprising of

- log in to your Moodle site
- go to the desired course
- ensure editing is turned on
- go to the topic / week where you would like the new resource or activity to be placed
- select either the 'Add a resource...' or 'Add an activity...' menu select the appropriate option from the pull down list

Chairperson: Prof. Shailendra Kumar Shrivastava

Moderator: Dr. Anita Singh

Technical Session IV (16:00 to 17:30)

Learner Centric MOOC Model (LCM) Overview

Development Resource Person:

Dr. Sarika Chouhan
Active Learning Workshops,
SMIORE Academy for Teacher Training,
Sandur



The session was followed by giving overview on Learner Centric MOOC Model by Dr. Sarika Chouhan Active Learning Workshops, SMIORE Academy for Teacher Training, Sandur. She emphasized about dynamics of learner experience interaction (LxI) constructive feedback, LeD & LbD activities. She said, “Learning by Doing is a formative assessment activity. What this means is that learners get sufficient and multiple opportunities to practice, to apply, and get feedback on their work. If we look at the structure of an LbD, the learners first do an activity such as solve a problem or click on the choice to the answer of a question and then they get feedback. This feedback is formative. That means it helps the learner take stock of where their work is at the current point and helps them improve and revise their work so that they get closer to the learning goal. LbD activities help learners towards the goals of concept attainment or immediate application of some content or integration of knowledge”. To summarize, while creating an LbD activity, we need to start with the learning goal, “is it concept attainment, application, integration of knowledge”. We can use our teaching experience to decide the pedagogical goal and the pedagogical type and we need to explore the platform to decide the format of the question and then combine all this using our creativity. She added that the loop of formative assessment is closed when the learner gets feedback on their current work and also pointers on what they should do next?

According to her Qualitative and quantitative methods were employed in combination including questionnaires, interviews, document analysis, and discussion board analysis. The latter method involved adapting an existing content analysis framework. The findings highlight the significance of group member participation, collegiality, and familiarity among group members. Students enjoyed working in online groups and found the discussion board useful, but often gave preference to other communication methods. Lecturer presence in online groups was found to be important to students, but interaction on the group discussion board was mostly student-centred. Provision of non-referential topic-related information, opinion, and solidarity were the most common types of interaction

Concluding the session with Dynamics of learner experience interaction (LxI) she said, “Dynamic learning programs are interactive and include tasks that involve a high-level of learner engagement, and the use of multiple learning mediums”. Dynamic e-learning programs are fluid and engaging, as you can incorporate a variety of features like conversational computing, interactive quizzes and games within the program. Such activities contribute to the overall development of an individual, taking the focus away from course grades, and moving it to acquiring new skills. The customizations involved in this mode of learning helps course instructors create personalized learning experiences for their students. Personalized learning sets the student up for success, as it takes their strength and weaknesses into account. Dynamic learning is quickly transforming the way e-learning content creators design courses, with more emphasis on student needs and blended learning experiences that take into account the different types of learners.

Chairperson: Dr. Kamlesh Kumar Shrivastava

Moderator: Dr. Indrapal Karbhari



FACULTIES SHOULD MAKE THEMSELVES SELF-RELIANT WITH DIGITAL EDUCATION:

PROF. K.L. VERMA

A week-long workshop on MOOCs, e-content development and open educational resources was conducted by UGC-HRDC, Pt. Ravishankar Shukla University, Raipur which concluded on Saturday.

Chairing the valedictory session of the week-long workshop, Hon^{ble} Vice- Chancellor Prof. K.L. Verma said, "Massive Open Online Course (MOOC) and e-content generation contribute significantly toward showing creative thinking and innovative learning among the students and at the same time help the faculty to update their knowledge and skills through such faculty development programmes."

He urged faculty members of various colleges and universities to serve as agents of change and harness constructive ideals among young learners.

In his valedictory address, Director, UGC-HRDC, Prof. Shailendra Saraf elaborated upon the intended learning outcomes behind the workshop and emphasized that the main objective of the workshop was to sensitize the teaching faculty of colleges and universities about the advantages of e-learning and to encourage them towards planning, designing, developing, delivering and implementing MOOCs so that they can keep pace with digital revolution of the twenty first century in which technology is blended with traditional teaching-learning pedagogies for better learning outcomes.

Addressing in the Workshop, Prof. Sanjay Tiwari, Workshop Coordinator elaborated upon the modalities behind design and conduct of the workshop and informed the gathering that renowned experts including Prof K. Srinivas from NIEPA, New Delhi, Prof. Pradeep Kumar Misra, Director, CPRHE, New Delhi, Dr. Kalpana Kannan, IIT Bombay, Chanda Jain, Institute of Technology and Science, Ghaziabad, Prof K.Thiyagu, School of Education, Central University of Kerala, Dr. P. Malliga, NITTTR, Chennai, Dr. Deepak Bishla, Dr. B. R. Ambedkar University, Delhi, Dr. V. P. Joshith from Central University of Kerala, Annapurna Madhuri, SMIORE Academy for Teacher Training, Sandur, DR. PRAVEEN KUMAR T D, Vijaya Teachers College, Bengaluru were invited to impart hands-on training to the participants in designing and developing MOOCs over SWAYAM platform. He informed that 40 in-service faculty members belonging to various colleges and universities from all around the corners of nation witnessed, learned & became part of this effective workshop. These participants are being exposed to Flipped Classroom and Blended learning methods for virtual classrooms; use of video conferencing and learning management tools for teaching; experiential learning material generation for students and improved student engagement in the virtual class with the help of technology. Assistant Director-HRDC, Dr. Arvind Agrawal extended the vote of thanks.

MOOCs have emerged as one of the most inexpensive mechanisms for offering quality education online to a large number of students, from 15 to 75-year-olds, via the Internet and enable students to solve assignments and quizzed at their own pace, besides incorporating discussion forums and chat rooms. Currently, Massachusetts Institute of Technology (MIT), Harvard, IIT-B, UC Berkeley, and Stanford, among others offer MOOCs. In June last year, IIT-B had joined the massive open online courses (MOOCs) platform started by Harvard University and Massachusetts Institute of Technology. According to experts, the web-based technology and infrastructure of edX allow lakhs to log in to a course simultaneously.

Using Smartphones in the class will no longer be considered as a punishable offence. Smartphone technology has evolved enough to approve the use of phones and tablets in the classroom to turn the boring lecture into an exciting learning system by means of educational mobile apps for teachers and educators. From expanding the horizon of learning environment to creating lessons, preparing lecture subjects, and enhancing student engagement, the learning-oriented mobile apps can help maintain learning even outside the classrooms. By having a right set of teaching software, teachers and educators can streamline their activities like keeping attendance, recording behaviour, engaging students inside and outside the classroom with effective communication. Moreover, with pandemic situations, today's learning arena has evolved into a digital space where teachers and students communicate virtually and learn from the comfort of their homes and these apps are in high demand than ever before.

Technical Session I & II (10:30 to 12:00 & 12:15 to 13:45)

Mobile Apps for Teachers

Development Resource Person:

Dr. K. Thiyagu
Department of Education
School of Education Central University of
Kerala Tejaswini Hills Periyar, Kasaragod,
Kerala - 671 320



The last day of Workshop started with the effective & interactive sessions of Prof K.Thiyagu, School of Education, Central University of Kerala in which he demonstrated various Mobile Apps for Teachers. He said, “Nearly everyone uses technology of some form in our everyday lives. Apps, in particular, have a multitude of uses with many great ones focusing on education. Educational apps allow students to have access to invaluable resources and learning materials on laptops and mobile devices. One benefit of these types of apps is that they can keep students connected to the classroom, even while they’re away from school”.

He added, “Teachers love to turn a boring lesson into a game to motivate their students, but not everyone has the skills to make a game from scratch. Education takes place in and out of the classroom and many applications give you a way to quickly save articles, videos, and other web content pertinent to your current or future class lectures.”

There is a better way of keeping attendance, grades, and class notes than in easily misplaced notebooks or on random pieces of paper. As a digital grade book and classroom management app, lets you take attendance, calculate grades, and plan your timetable, all on your mobile device.

Chairperson: Dr. Manoj Kumar Patel

Moderator: Dr. Jyothi Kalyan

Technical Session III (14:15 to 15:45)

Designing MOOC Through MOODLE: Uploading the Course Contents etc. [Hands-on Practice]

Development Resource Person:

Dr. V. P. Joshith
Department of Education Central
University of Kerala
Tejaswini Hills, Periyar (PO), Kasargod,
Kerala



Dr. V. P. Joshith from Central University of Kerala took third session of today's workshop and gave hands-on training on Designing MOOC Through MOODLE: Uploading the Course Contents etc. He said, "Today, the Indian education system is beginning to correctly recognize the need to mainstream vocational training. Policy initiatives such as the National Skills Qualification Framework (NSQF) are providing equivalence of skill training with general education levels and mapping them to industry-driven job standards. Promoting MOOCs, at this juncture, to address serious challenges of providing qualified teachers and infrastructure can be the much-needed catalyst to achieve depth and reach of vocational education with uniform quality standards."

He further said that MOOCs can also leverage Digital India's promise of providing mass connectivity and computing. Portals such as Coursera, edX and Udacity host courses offered by the world's premier universities such as Stanford, MIT and Harvard for free, to a global audience to take at their own pace. These chair-less classes break all limits of enrolment (there have been up to 3 lakh students in an online cohort), allowing unprecedented scale. With about a million registered users in India for Coursera alone, savants here are embracing this phenomenon."

Completion and Certification

The Completion certificates were issued to all successful participants who scored above 60% in the assessments and participated in at least five discussion forum posts. As the criteria were fulfilled completion certificates were awarded to the participants. The course witnessed a commendable participation from the enrolled participants. The Two-Week FDP MOOC also ensured that access to e-content and adopting synchronous and asynchronous mode of course plotting resulted in effective learning experiences among participants.

Feedback from the participants

The participants' feedback on developing MOOCs or any online course is admirable. They purported that this course has a realistic picture of how to prepare, produce and launch a MOOC after deciding what the MOOC is for why it is worth enrolling in. They also added that this MOOC really is using best practice based on sound knowledge and skill required for developing online Teaching-Learning-Evaluation experiences/environment. They would strongly recommend it to their fellow/colleague/acquaintances to pursue. Some of them complemented that this Course was very helpful for them to conduct online classes for their students, especially in this restricted phase. They extended their acknowledgement to the Coordinators, Team of Instructors and facilitators who made this course wonderful and informative. The participants came out to consider it as a very well-designed course as the lectures are kept short and crisp that brings out a great essence of online teaching techniques. Overall, they put into record that it is worth learning this course as it was intensive and very professionally crafted. The quality was outstanding.

The participants also restored their views on how they got benefitted from this FDP MOOC. The following are the few excerpts:

- It was a structured sensitization attempt and created awareness about the Digital Initiatives of GOI in Higher Education
- It also warranted steps of Instructional Design for MOOC Development & to understand the process of planning, designing and implementing online courses in line with SWAYAM-MOOC requirements
- It lent a hand towards E-Content Development (Script Writing/ Video Recording) with Generic Video Recording and Screen Capturing Tools to enable the participants to learn for implementation

To a large extent, it satisfactorily helped them to use MOOC/ develop online courses as an adjunct to face-to-face teaching and to teach in a fully online or distance learning context and to get a feel for how their courses could be enhanced using web platform.

➤ The inferred views exposed contentment towards creating better and active communication and collaboration with the students and to design and manage learning through Rubric assessment.

➤ This online programme provided an opportunity for all participants to have a ready experience of exploring OER for Learning, teaching and Professional Development.

➤ At the end it may be inferred that, the online Faculty Development Programme (FDP) has a positive impact on the participants as they are quite satisfied with the design, delivery and hand holding support of the Massive Open Online Course (MOOC) on FDP.

Recommendations

As per NEP, the GER should be 50% by 2035 which can be achieved through extensive use of information and communication technology (ICT) in the education sector. Technology has transformed almost every aspect of our lives, and now it seems that education systems around the world would be ICT integrated. The educators are tapping into the digital revolution and adopting new technologies to reach their students more effectively without the restriction of time and pace. With the use of digital platform, the delivery of educational programme has witnessed a paradigm shift from traditional teaching-learning system to technology mediated learning or digital learning. As we move forward for online learning, NEP lays a special focus to develop digital infrastructure including strengthening the existing digital educational platform like SWAYAM, SWAYAMPRAKASHA, DIKSHA, VYAS etc. After successful completion of the three subsequent cycles of the FDP-MOOC, experiences from these three efficacious cycles, the Course Coordinators have drawn the following recommendations-

➤ This FDP has extended its scope to continuous professional development of teachers in various levels of education.

➤ This FDP has benefitted not only the faculties of HEIs who are aspired to develop MOOCs on SWAYAM platform, it also empowered the teachers, scholars from different HEIs and Schools to develop online courses and design instructions for their own institutional LMS or create any personalized instructional environment and/or any Teaching-Learning-Evaluation milieu.

➤ The researchers were also introduced to the scope of being content writer/developer and contribute to virtual learning environment.

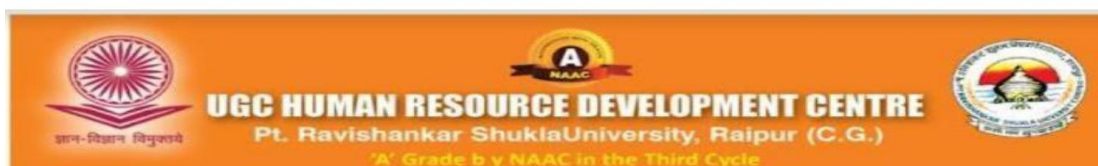
➤ The programme helped a large number of faculties/Teachers/other academicians to gain an awareness in the ground level and enhance their capacity to design and develop innovative SWAYAM Courses and/or customized online courses in their own context and teaching-learning settings.

Chairperson: Dr. Vani Harpanahalli

Moderator: Dr. Gajula Savita

UGC - HRDC, PRSU, Raipur

Time Table: One Week Workshop on MOOCS, Online Courses and Open Educational Resources (14/02/2022 to 19/02/2022)



Workshop on MOOCs, Online Courses and Open Educational Resources

14-19 February, 2022

WORKSHOP SCHEDULE

INAUGURAL DAY

Day/Date	Session 1 (9.30 hrs – 10.30 hrs)	Tech. Session 1 (10.30 hrs – 11.30 hrs)	Tech. Session 2 (11.45 hrs – 13:15 hrs)	Tech. Session 3 (14.00 hrs – 15.30 hrs)	Tech. Session 4 (15.45 hrs – 17.15 hrs)
Day 1 Monday 14.02.2022	Inaugural Function/ Interaction with Vice Chancellor	Keynote Address Spoken Tutorials Prof Kannan Moudgalya IIT Mumbai	Online Education: Moving with the Times Prof. Y Narasimhulu UoH	Building the Competencies of Teachers in Designing Blended Learning/MOOCs: A Step by Step Practical Approach Prof K. Srinivas NIEPA	Project Work on Designing, Developing and Delivering a Sample MOOC Course [Hands-on Practice] Prof K. Srinivas NIEPA

REGULAR SCHEDULE

Day/Date	Tech. Session 1 (10.30 hrs – 12.00hrs)	Tech. Session 2 (12.15 hrs – 13:45hrs)	Tech. Session 3 (14.15 hrs – 15.45 hrs)	Tech. Session 4 (16.00 hrs – 17.30 hrs)
Day 2 Tuesday 15.02.2022	Student centric MOOC Activity Development Prof. Chanda Jain	An overview of MOOCs Dr. Kalpana Kannan	Need for E-Content Development and Authoring Tools Dr. P. Malliga	Creating and implementing MOOCs Dr. Kalpana Kannan
Day 3 Wednesday 16.02.2022	Open Educational Resources Prof. Pradeep Kumar Misra	Open Educational Resources Prof. Pradeep Kumar Misra	Tools for Teaching & Learning [Hands-on Practice] Dr. Ramesh Chander Sharma	Creating Video based Lessons Dr. P. Malliga
Day 4 Thursday 17.02.2022	Designing MOOC Through MOODLE [Moodle Cloud Registration, Moodle App Installation] [Hands-on Practice] Dr. Deepak Bishla	Designing MOOC Through MOODLE: Course Announcement, New, Announcements [Hands-on Practice] Dr. Deepak Bishla	Creation of MOODLE platform and upload the activities and resources. Dr Praveen Kumar	Leamer Centric MOOC Model (LCM) Overview Annapurna Madhuri
Day 5 Friday 18.02.2022	Tool for creating and delivering amazing Presentations Dr. K. Thiyagu	Formative and Summative Assessment Tools Dr. K. Thiyagu	Designing MOOC Through MOODLE [Moodle Cloud Registration, Moodle App Installation] [Hands-on Practice] -Dr. V. P. Joshith	Learner Centric MOOC Model (LCM) Overview Dr. Sarika Chouhan
Day 6 Saturday 19.02.2022	Mobile Apps for Teachers -Dr. K. Thiyagu	Designing MOOC Through MOODLE: Course Announcement, New, Announcements [Hands-on Practice] -Dr. V. P. Joshith	Designing MOOC Through MOODLE: Uploading the Course Contents etc. [Hands-on Practice] -Dr. V. P. Joshith	Valedictory Function

Resource Persons

<p>Prof Kannan Moudgalya Erach and Meheroo Mehta Advanced Education Technology Chair Professor Professor, Chemical Engineering, Systems Indian Institute of Technology, Bombay</p>	<p>Prof. Y Narasimhulu Director, HRDC, University of Hyderabad Former Vice-Chancellor Rayalaseema University hrdcuoh@uohyd.ac.in</p>	<p>Prof. K. Srinivas Head ICT & Project Management Unit National Institute of Educational Planning and Administration (NIEPA), MOE , New Delhi drksvasu@gmail.com</p>
<p>Chanda Jain Head, Training & Placement Institute of Technology and Science Mohan Nagar , Ghaziabad, jainchanda@its.edu.in 9421783618</p>	<p>Dr. Kalpana Kannan Project Coordinator and a Senior Project Manager Department of Computer Science and Engineering IIT Bombay. kalpana.moudgalya@gmail.com</p>	<p>Dr. P. Malliga Associate Professor Computer Science & Engg., Head i/c, Dept. of Educational Media and Technology, National Institute of Technical Teachers Training and Research (NITTTR)Taramani, Chennai -600 113 malliga@nitttrc.ac.in, 9380342066</p>
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<p>Prof K.Thiyagu, Department of Education School of Education Central University of Kerala Tejaswini Hills Periyel Kasaragod Kerala -671 3201 thiyagucuk@gmail.com 9486812800</p>	<p>Dr. Sarika Chouhan Chief Academic Officer Vidyalankar School of Information Technology</p>	<p>DR. PRAVEEN KUMAR T D Vijaya Teachers College-CTE 30th Cross, 11th Main 4th Block, Jayanagar, Bengaluru-560011 Email:praviedu2011@gmail.com Contact No: 9964629452</p>
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One Week Workshop on MOOCS, Online Courses and OpenEducational Resources
(14/02/2022 to 19/02/2022)

Course Coordinator - Prof. Sanjay Tiwari
Participants List

S.No.	Name of Participants	Email Address	Mobile Number	Photo	Name of College	Affiliated University
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03.	Dr. Shilpi Shrivastava	shilpi.srivastava@kalingauniversity.ac.in	8878101537		Kalinga University Naya Raipur	Kalinga University Naya Raipur
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40.	Dr Saumya Tiware	drsaumyatiwari@gmail.com	9630837168		Disha College	Pt. Ravishankar Shukla University
41	Gajendra Singh Rathore	gajendra05in@gmail.com	9827966082		Institute of Renewable Energy Technology & Management	Pt. Ravishankar Shukla University, Raipur

One Week Workshop on MOOCS, Online Courses and OpenEducational Resources

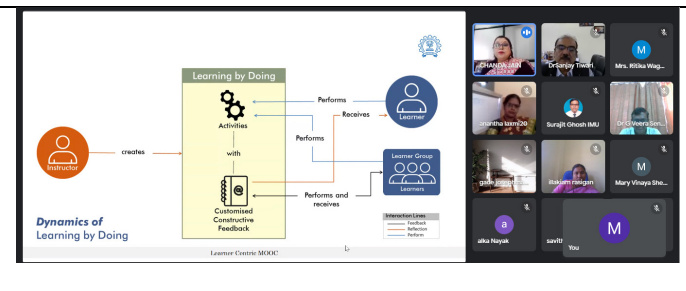
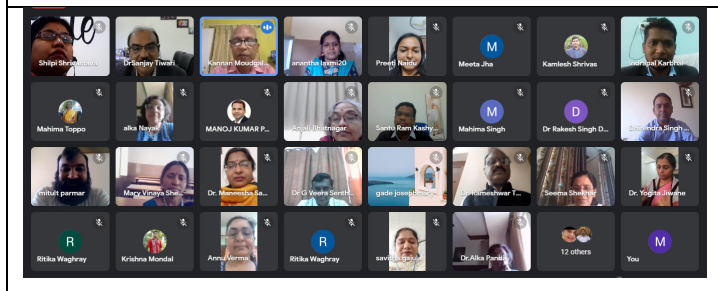
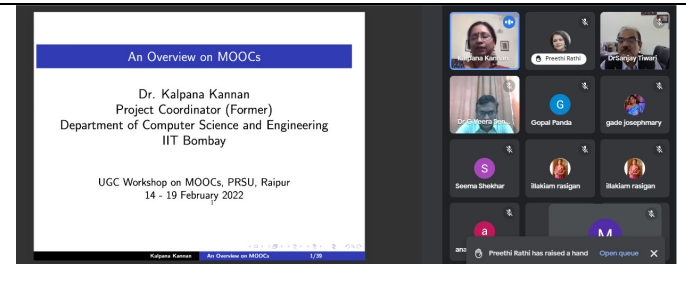
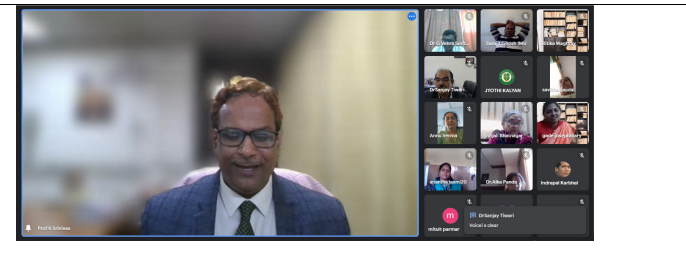
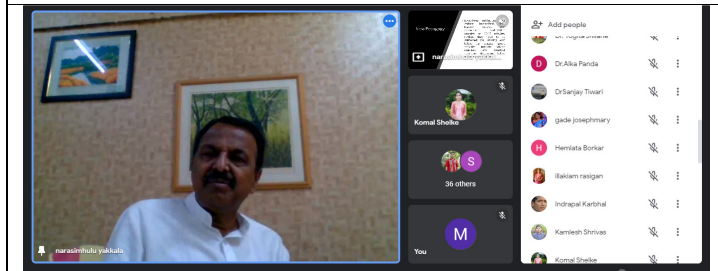
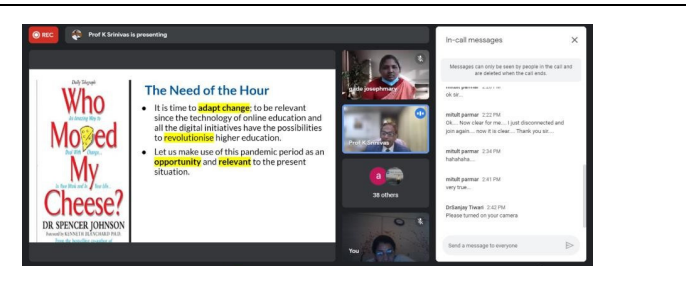
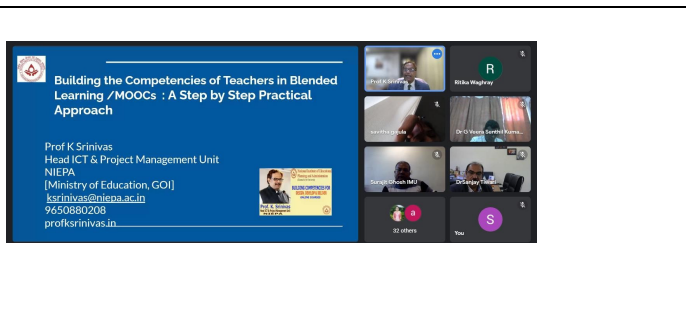
(14/02/2022 to 19/02/2022)

Course Coordinator - Prof. Sanjay Tiwari

Chairperson and Reporter List

Sr.No.	Date	Tech. Session I and II		Technical Session III		Technical Session IV	
		Chairperson	Moderator/ Rapporteurs	Chairperson	Moderator/ Rapporteurs	Chairperson	Moderator/ Rapporteurs
01.	Monday 14.02.2022	Dr. Surajit Ghosh	Dr. Rani Shantaram Kankate	Dr. Shilpi Shrivastava	Dr. G. Veera Senthil Kumar	Dr. Seema Arora	Dr. Lokeshwar Prasad Sinha
02.	Tuesday 15.02.2022	D. Illakkiam	Mrs. G Joseph Mary	Dr. Mary Vinaya Sheela	Dr. Maneesha Saxena	Dr. Anil kumar Singh 8299776770	Dr. Hemlata Borkar Wasnik
03.	Wednesday 16.02.2022	Dr. Ritika Waghray 9848208128	Dr. A.N.P.P. Anantha Lakshmi 9704694939	Mrs. Preethi Rathi 9949922111	Ms. Komal Babanrao Shelke 9860102560	Dr. Anjali Bhatnagar 9993021310	Dr. Yogita Jiwane 9754129323
04.	Thursday 17.02.2022	Dr. Mitulkumar Parmar 9909533983	Dr. Rameshwar Tiwari 9424920344	Dr. Dharendra Singh Kshatri 7415233554	Dr. Shubhra Mishra 9926160707	Dr. Santu Ram Kashyap 9826560119	Dr. Rinkesh Bhatt 9406946717
05.	Friday 18.02.2022	Dr. Annu Verma 9131391418	Dr. Rakesh Singh Dhundhel 7828606975	Prof. Shailendra Kumar Shrivastava 9685576760	Dr. Anita Singh 7999709042	Dr. Kamlesh Kumar Shrivastava 7879581979	Dr. Indrapal Karbhal 8605985169
06.	Saturday 19.02.2022	Dr. Manoj Kumar Patel 8826933120	Dr. Jyothi Kalyan 7207289919	Dr. Vani Harpanahalli 9963005214	Dr. Gajula Savita 9502819378	Valedictory Function	

Some Glimpses of the Workshop



Flyer of of the Workshop



ज्ञान-विज्ञान विमुक्तये



UGC HUMAN RESOURCE DEVELOPMENT CENTRE

Pt. Ravishankar Shukla University, Raipur (C.G.)

'A' Grade by NAAC in the Third Cycle



Dr. Sanjay Tiwari
Workshop Coordinator

A SIX-DAY online workshop on

"MOOCs, Online Courses and Open Educational Resources"

14th February to 19th February 2022

PREAMBLE: The introduction of new technologies and electronic gadgets has played an important role in transforming the education sector in numerous ways. When education is coupled with technology, students and teachers find it more interesting because sharing of knowledge becomes more engaging easier and hassle free. The Covid 19 pandemic has changed everything and the Open Educational Resources (OER) and Massive Open Online Courses (MOOC) has become an integral part of the teaching and learning processes. Its right time to take advantage of digital wave to further improve our education system as it provides unique solution to reach every deserving candidate in any part of the country and reap the benefit of demographic dividend. In view of this UGC HRDC, PRSU, Raipur is conducting an online workshop on "MOOCs, Online Courses and Open Educational Resources" for College and University teachers during 14-19 February, 2022 between 10:30 to 17:30 hrs.

ABOUT THE COURSE : The online workshop is mainly aimed to explore the knowledge on various online tools, Open-Source Software, Open Educational Resources and other digital tools for creating active learning environment. It will provide the detailed information about the GOI Digital Initiatives in Higher Education. This workshop will address various issues relating to planning, developing, delivering and managing online courses in the context of higher education institutions. The participants will learn the classroom management strategies through Technology Enabled Teaching. The faculty members will be enabled to adapt online assessment strategies in teaching and also learn the Learning Management System.

ELIGIBILITY, TARGET GROUP AND DURATION

Faculty members working in universities and colleges from all disciplines that are included under section 2(f) of the UGC Act, even though they may not yet be fit under Section 12 (B) may participate. The teachers of colleges that do not yet come within the purview of Section 2(f), but have been affiliated to a university for at least five years, may also participate in the Workshop.

PRE-REQUISITES: The teacher participating in the course must have

- ▶ Proficiency in MS Office and basic internet knowledge
- ▶ Desktop/Laptops with good internet connectivity
- ▶ Webcam, Microphone, headphones with Multimedia enabled

REGISTRATION FEE PARTICULARS: The Registration fee for the course is Rs. 1000/- (Rupees One thousand Only) (non-refundable/non-transferable) to be paid online in Director ASC Bank Account number 30644576182; IFSC code: SBIN0003739 State Bank of India, Ravishankar University Branch, Raipur. For any assistance regarding payment please contact-Dr. Arvind Agrawal on 9754233057 or Dr. Brijendra Pandey 9827159831

HOW TO APPLY: The Faculty members desirous to participate in the program are requested to register their details at given link: <https://forms.gle/tud3etpdxnBGBz7S7> on or before 31st January 2022 upto 11am.

SELECTION CRITERION: Selection will be based on first-come-first-serve basis to a maximum number of 40. The list of selected participants will be intimated through E-mail.



IMPORTANT NOTE:

- ▶ Submission of Registration form is mandatory
- ▶ Further details regarding the Online Workshop will be conveyed on registered Email ID of the selected Candidates.
- ▶ Certificate of participation will be given after the successful completion of the course by the participant.

CONTACT:

mooctrsu@gmail.com, hrdcprsu@gmail.com

Key contact Persons

- ▶ Dr. Shailendra Saraf, Director, HRDC (hrdcprsu@gmail.com)
- ▶ Dr. Sanjay Tiwari, Workshop Coordinator (9424225771)
- ▶ Dr. Arvind Agrawal, Assistant Professor, HRDC (9754233057)
- ▶ Dr. Brijendra Pandey, Assistant Professor, HRDC (9827159831)

