



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-III

EVIDENCE(S), AS PER SOP

METRIC No. 3.4.1.	The institution ensures the implementation of its stated Code of Ethics for Research
<ul style="list-style-type: none">• Copy of syllabus of research methodology coursework• Constitution of the ethics committee• Constitution of research advisory committee• DRC regulation• Plagiarism guidelines	

SCHOOL OF STUDIES IN BIOTECHNOLOGY

Pt. Ravishankar Shukla University
Raipur 492 010, Chhattisgarh



Syllabus

Ph.D. Course Work in Biotechnology
(Program Code: 0410)

Session
2022-2023

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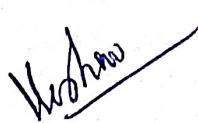
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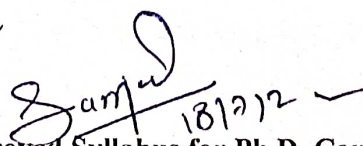
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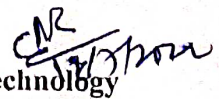
Program Learning Outcomes for Ph.D. Course Work in Biotechnology

1. Students will be able to develop a vision for the biotechnology field and its scope in R&D activities.
2. Students will become familiar with IPR, biosafety regulations and standards, and bioethics before commencing the research work.
3. Develop ability to design, analyze, interpret and present the research work/ data.
4. Will be acquainted with sophisticated instruments and techniques essential required for various experimentations during the research.
5. Will have technical skill to write research papers, reviews, research projects, thesis, *etc.*



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School of Studies in Biotechnology
Syllabus for Ph.D. Course Work in Biotechnology (2022-23)
(Program Code: 0410)
One Semester

There will be two papers; each with 100 marks maximum.

**Paper-I (Code: 041001): Research Methodology, Advanced Tools & Techniques,
Quantitative Data Analyses and Computer Fundamentals**

Paper-II (Code: 041002): Review of Literature & Seminar

Paper- I (Code: 041001): Research Methodology, Advanced Tools & Techniques, Quantitative Data Analyses and Computer Fundamentals		Maximum Marks
A	Research Methodology Essential steps in research: Identification, Selection of objectives, case studies and practical knowledge of research process. Research design: - Components, importance of literature collection, citation & indexing. IPR, Experimental error and control, Research Report Presentation-table, Figure, Formatting and typing	25.0
B	Advanced Tools/ Techniques & their Applications Electrophoresis, HPLC, Microscopy, PCR, Biosensors: Types, Application of biosensor, Biosafety cabinets; Protein sequencing, DNA sequencing, Radioisotope Techniques, Bioinformatics & Biological Databases.	25.0
C	Quantitative Data Analysis Measures of variability: Standard Deviation, Standard Error, Coefficient of Variation, Correlation and Regression, Test of Significant: t-test, chi-square test, Frequency distribution: Binomial and normal distribution, Statistical tools and techniques: MS Excel, SPSS.	25.0
D	Entrepreneurship, Biosafety & Bioethics Entrepreneurship in bio-business: Introduction and scope in Bio-entrepreneurship, MSME, DBT, BIRAC, Make In India. Biosafety - introduction; primary containment for biohazards; biosafety levels; principles of environmental risk assessment. Bioethics – Human, plants, microbes and animal experimentation, biopiracy.	25.0
Paper-II (Code: 041002): Review of Literature & Seminar		Maximum Marks
A	Review of Literature- Writing review of literature in the area of the proposed Ph.D. program	50.0
B	Seminar-Based on the review of literature	50.0

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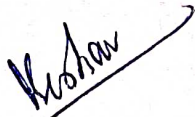
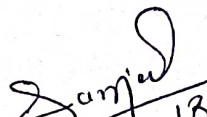


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BoS Approved Syllabus for Ph.D. Course Work in Biotechnology
(Academic Session 2022-23)

Note:

1. There will be FOUR units (A, B, C & D) of 25 marks each. The pattern will include both objective (multiple-choice questions) and subjective (short answer, using 50 to 100 words) questions.
2. The candidate should obtain 50% or more marks to qualify in the course work examination. Each answer paper will be assessed by two examiners independently.
3. Research and Publication Ethics: As per the UGC Notification [D.O. No.F.1-1/2018 (Journal/CARE), dated on December, 2019]. This course (Annexure 01) will separately be taught and its examination will be conducted by the HRDC PRSU Raipur.

BoS Approved Syllabus for Ph.D. Course Work in Biotechnology
(Academic Session 2022-23)

Annexure 01:

Syllabus THEORY

RPE 01: PHILOSOPHY AND ETHICS

1. Introduction to philosophy: definition, nature and scope, concept, branches
2. Ethics: definition, moral philosophy, nature of moral judgments and reactions

RPE 02: SCIENTIFIC CONDUCT

1. Ethics with respect to science and research
2. Intellectual honesty and research integrity
3. Scientific misconducts: Falsification, Fabrication and Plagiarism (FFP)
4. Redundant publications: duplicate and overlapping publications, salami slicing
5. Selective reporting and misrepresentation of data

RPE03: PUBLICATION ETHICS

1. Publication ethics: definition, introduction and importance
2. Best practices/standards setting initiatives and guidelines: COPE, WAME, etc.
3. Conflicts of interest
4. Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types
5. Violation of publication ethics, authorship and contributorship
6. Identification of publication misconduct, complaints and appeals
7. Predatory publishers and journals

PRACTICE

RPE 04: OPEN ACCESS PUBLISHING

1. Open access publications and initiatives
2. SHERPA/RoMEO online resource to check publisher copyright & self-archiving policies
3. Software tool to identify predatory publications developed by SPPU
4. Journal finder/journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester, etc.

RPE 05: PUBLICAITON MISCONDUT

A. Group Discussions

1. Subject specific ethical issues, FFP, authorship
2. Conflicts of interest
3. Complaints and appeals: examples and fraud from India and abroad

B. Software tools (2 hrs.)

Use of plagiarism software like Turnitin, Urkund and other open source software tools

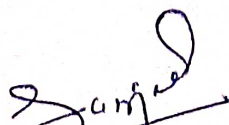
RPE 06: DATABASES AND RESEARCH METRICS

A. Databases

1. Indexing databases
2. Citation databases: Web of Science, Scopus, etc.

B. Research Metrics

1. Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score
2. Metrics: h-index, g index, i10 index, altmetrics



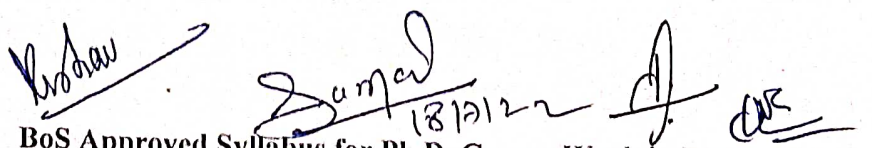
BoS Approved Syllabus for Ph.D. Course Work in Biotechnology
(Academic Session 2022-23)

Learning Outcomes:

1. Students will be able to think critically and creatively about the use of biotechnology to address local and global problems.
2. Able to write and present a technical report/ document.
3. Will acquire mastery in the specific area of biotechnology and will be able to go for a collaborative and multidisciplinary research.
4. Will be able to apply gathered knowledge and management skills in managing research projects in efficient and economical manner and with intellectual integrity and ethics for sustainable development of society.

Employability/ Skill Development:

1. Will be capable to carry out research /investigation independently in specialized area of Biotechnology. Recognize the need of continuous learning, and will be prepared to create, select, learn and apply appropriate techniques, resources, and modern instrumentation to solve complex biotechnological issues with an understanding of the limitations.
2. Rigorous training on instrumentation, workshops, seminars, planning and execution of specific research leading to fruitful results, data analysis and interpretation, thesis and research paper writing, etc.


BoS Approved Syllabus for Ph.D. Course Work in Biotechnology
(Academic Session 2022-23)

Pt.Ravishankar Shukla University Raipur

Syllabus

Ph.D. Course Work

Session: 2022-23 & onwards

Approved by
Board of Studies in Mathematics
(Meeting on 21 April 2022)

Pt. Ravishankar Shukla University, Raipur
Ph.D. Course Work (Mathematics)

2022-23 & Onward

Scheme of Examination

There shall one paper and one project work. Each of 100 marks.

S.No.	Particulars	Max. Marks		
1	Research Methodology, Quantitative techniques and Computers	100		
2	Project Work	Dissertation/Project Script	50	100
		Seminar	20	
		Viva Voce	30	
Grand Total				200

Note: In addition to above paper and project work every candidate has to complete a two-credit course on Research and Publication Ethics

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Details of Syllabus

Paper I Research Methodology, Quantitative techniques and Computers

M.M. 100

Learning Outcomes: At the end of the course, the students will be able to :

1. Understand fundamental knowledge of research methods and design used in research, selected research problem.
2. Understand importance of scientific writing, importance of word selection, journals and their abbreviations.
3. Understand mathematics subject classification and mathematical review and mathscinet, structure of mathematical research paper.
4. Use Latex for mathematical typesetting, making bibliography and slides .
5. Use MATLAB for scientific computing, plotting curves and surfaces, interpolation and curve fitting.

Unit I – Research Methodology:

Introduction to research methodology, Meaning, objectives, types, significance of Research. Identification, Selection of Research problem, Formulation of research objectives, Research design, components, importance and typology; Quantitative and qualitative methodology, hypotheses. Research ethics.

Unit II - Scientific Writing : Importance of Science Writing , Meaning and nature of Scientific Style , Writing effective scientific prose, Effective word selection in Science writing, Common mathematical functions and their abbreviations, Symbols, Operators Commonly used in Mathematics, Greek, Roman letters used in mathematics, Mathematical Theorems and properties, Mathematics Journals and their abbreviations.

Unit III - Style and Usage for Mathematics :

Review : Mathematics Subject Classifications (MSC). Mathematical Review, MathSciNet and other E-Resources.

Manuscript Preparation :

Structure of a Standard Mathematics Paper (in brief), Other Forms of Mathematics Manuscripts.

Usage : Mathematical Expressions, Alphabets used in Mathematical Expressions, Bracketing, Limits, Fractions, Multiplication, Vectors, Tensors, and n-forms, Summations, Products, Unions, and Integrals.

Unit IV - Typesetting Mathematical Text with LATEX :

Sample Document, Type Style, Environments, Lists, Centering, Tables, Verbatim, Vertical and Horizontal Spacing. Equation Environments, Fonts, Hats, and Underlining, Braces, Arrays and Matrices, Customized Commands, Theorem-like Environments, Math Styles, Document Classes and the Overall Structure, Titles for

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Documents, Sectioning Commands, Packages, Inputting Files, Inputting Pictures, Making a Bibliography, Making an Index, Slides.

Unit V - MATLAB :

Arithmetic Operations, built-in-MATH functions, scalar variables, Creating Arrays, built-in-functions for handling arrays, Mathematical Operations with Arrays, Script Files, Two dimensional plots, programming in MATLAB, Polynomial, curve fitting, and interpolation, Three-dimensional plots.

Books recommended :

1. C.R.Kothari, Research Methodology, New Age International Publishers (2004)
2. Michael Davis : Ethics and the University. Routledge (1999)
3. Harold Rabinowitz, Suzanne Vogel : The Manual of Scientific Style. Academic Press (2009)
4. Laslie Lamport : LATEX. Addison Wesley Publication Company (1994)
5. David F. Griffiths, Desmond J. Higham : Learning LATEX. Society for Industrial and Applied Mathematics, Philadelphia (1997)
6. Amos Gilat : MATLAB : An Introduction with Applications. John Wiley & Sons, INC (2004)

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Paper II
Project Work

M.M. 100

This paper will consist of three components

- | | | |
|-------|---|----|
| (i) | Dissertation/Project work leading to Ph.D. Work | 50 |
| (ii) | Seminars (two) | 20 |
| (iii) | Viva-Voce on Dissertation | 30 |

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School of Studies in Life Science

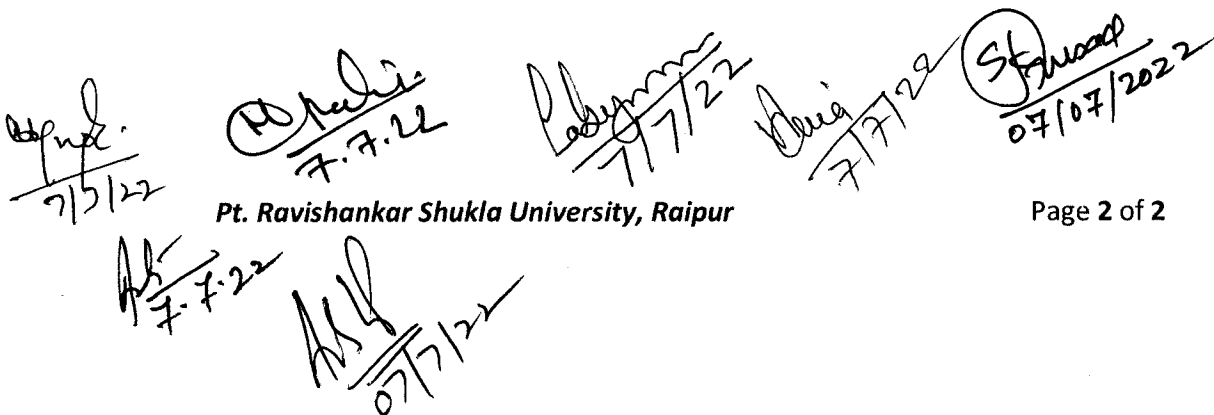
	D	Computer Fundamentals	08	
		Introduction to MS-Office software: MS-Word (Track change)	2L	
		MS-Excel, Power Point	3L	
		Features for Statistical data analysis using computers and software, Microsoft Excel Data Analysis ToolPak, SPSS	3L	

Paper-II			--	100
Course code- Ph.D. BS (0409 B)		Review of Literature & Seminar		
	A	Review of Literature – Writing review of literature in the area of the proposed Ph.D. work		50
	B	Seminar – Based on the review of literature		50

Note: Research and Publication Ethics (2 credit course)-As per guidelines of Pt. Ravishankar Shukla University, Raipur (C.G)

Recommended Books:

Al Vogel Buranen L and Roy AM Campbell RC Cassel P <i>et al.</i> Chatwal and Chatwal Coleman P and Dyson P CR Kothari Gilmore B Gralla P Habraken J Kumar Anupa P R Panneerselvam Shelly GB, Vermaat ME, Cashman TJ Snedecor GW & Cochran WG Sokal RR & Rohlf FJ Sood V Sumner M Upadhyaya and Upadhyaya Wardlaw AC White R Zar JH	Analytical chemistry Perspectives on Plagiarism and Intellectual Property in a Post-Modern World Statistics for biologists Inside Microsoft Office Professional Instrumentation Mastering Internets Research Methodology: Methods & techniques, 2008 Plagiarism: Why it happens, How to prevent it? How the Internet Works Microsoft® Office 2003 All in One, Microsoft® Office 2010 In Depth Cyber Law Research Methodology Microsoft® 2007: Introductory Concepts and Techniques Statistical Methods Introduction to Biostatistics Cyber Law Simplified Computers: Concepts & Uses Instrumentation Practical Statistics for Experimental Biologists How Computers Work Biostatistical Analysis
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Pt. Ravishankar Shukla University, Raipur

**SCHEME OF EXAMINATION
&
SYLLABUS OF PH. D. COURSE WORK
With
Learning Outcomes based Curriculum Framework
(LOCF)
for
Ph.D. (ELECTRONICS) PROGRAMME
(Program Code: 0307)
(Academic Session 2022-23)**



FACULTY OF SCIENCE

**Approved by Board of Studies in Electronics
Effective from Academic Session from Starting
JULY 2022**

School of Studies in Electronics and Photonics
Pt. Ravishankar Shukla University
Amanaka, GE Road, Raipur (C.G) 492010
www.prsu.ac.in

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PT.RAVISHANKAR SHULKA UNIVERSITY, RAIPUR

SCHEME OF EXAMINATION & SYLLABUS PRESCRIBED FOR THE EXAMINATION OF COURSE WORK FOR Ph. D. (Electronics)

EFFECTIVE FROM JULY 2022

Programme Objectives:

The primary objective this programme is to develop the critical and creative thinking in the specific research field of Electronics. Writing and the presentation skills of students are also developed. This programme also promotes the multidisciplinary and collaborative research work. The students will also aware with values of research and professional ethics and be made ready to contribute to society as responsible individual.

Programme Specific Outcomes:

- Student will be able to develop a clear research vision in the area of electronics.
- Student will become aware about plagiarism, Intellectual property rights (IPR), and publication ethics.
- Student will be able to design, analyse, and present the research work.
- Student will also be able to develop the skill to write research and review papers, research projects, thesis and technical articles etc.
- This programme will help to develop the skill to handle the sophisticate instruments and also develop scientific understanding.

Scheme of Examination

The course work for PhD degree in Electronics is a six month course after completion of P.G. Degree in the ^{* concerned / relevant / allied} subject. There shall be two compulsory papers based on the research areas of Electronics discipline. The structure of the course is given below:

* concerned / relevant / allied

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S.No.	Theory Paper	Marks
1.	Research Methodology, Quantitative Methods and Computer Applications	100
2.	Review of Literature Concerned Subject, Seminar/Project Report	100
Total		200

Paper I

Research Methodology, Quantitative Methods & Computer Applications

Course Objective:

- To develop understanding of Research methodology.
- To provide knowledge and concepts of research in the area of electronics.
- To be able to operate research instruments as well as computer applications such as simulation softwares, data analyse applications and other relevant computer applications.

Course Outcomes:

- Student will able to develop a clear research vision in the area of electronics.
- Student will become aware about plagiarism, Intellectual property rights (IPR), and publication ethics.

Activities with direct bearing on Employability/ Entrepreneurship/ Skill development:

It helps in Skill Development of Research Methodology, Quantitative Methods & Computer Applications

Unit I- Introduction and Design of research

Meaning objective and significance of research, types and parameters of research, research process, identification and definition of the research problem, definition of construct and variables, pure and applied research design, exploratory and descriptive design methodology, qualitative Vs quantitative research methodology, field studies, field experiments Vs laboratory experiments, research design in social and physical sciences.

Unit II- Data Analysis

Procedure for testing of Hypothesis, the null hypothesis, determining level of significance, types I and types II errors, grouped data distribution, measures of

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central tendency, measures of spread/ dispersion, normal distribution, analysis of variance : one way, two way, chi square test and its application, students 'T' distribution, non parametric statistical techniques, binomial test, Correlation and regression analysis-discriminate analysis- factor analysis-cluster analysis, measures of relationship.

Unit III- Solar PV fundamentals and Emerging Solar Cell Technologies

P-N junction under illumination: Generation of Photo voltage, Light Generated current, I-V equation, Solar Cell Characteristics, parameters of solar cells, Relation of V_{oc} and E_g

Design of solar cells: Upper limit of cell parameters, Losses in solar cell, Design for High I_{sc} , V_{oc} and FF

Analytical Techniques: Solar Simulator-IV measurement, Quantum efficiency measurement, Minority carrier lifetime & diffusion length measurement.

Thin film solar cell technologies: amorphous Si solar cells, CdTe solar cells, Quantum Dot Solar Cells, Dye Sensitized Solar cells, Perovskite solar Cells, Present status of different PV technologies, Shockley-Queisser limit.

Unit IV- Molecular Devices and Semiconductor Device Simulation

Molecular Devices: Operation fundamentals of organic LEDs, Organic FETs and Organic solar cells, Basic physics underlying device operation, Fundamental benefits and limitations of the organic materials.

Introduction to Semiconductor Device Simulation: Need of Simulation, Process Simulation, Device Simulation device simulation sequence, hierarchy of transport models, DD Model, Relationship between various transport regimes and significant length-scales. Numerical solution Methods-finite difference scheme, discretization of Poisson's and current continuity equations.

Unit V- Image Fundamentals

Digital Image representation, fundamental steps in Digital Image processing, Elements of Digital Image Processing Systems: image acquisition, storage, processing, communication & display, Simple image model, sampling and quantization, some basic relationships between pixels: Neighbors of a pixel, connectivity, Labelling of connected Components, Relations, distance Measures.

Image Transforms

Introduction to Fourier Transform, The Discrete Fourier Transform, some properties of two dimensional Fourier transform: Separability, translation, periodicity & conjugate symmetry, rotation, distributive and scaling, average value, Laplacian, convolution and correlation, sampling. **The Fast Fourier**

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Transform: FFT algorithm, number of operations, the inverse FFT, implementation. **Other Separable Image Transforms:** Walsh Transforms, Discrete Cosine Transform, Hadamard Transform, the Haar & Slant transform.
Study of basic functions of image processing toolbox of Matlab software

Reference Books-

1. Research in education, By J W Best and J V Kann. Pearson/Allyn and Bacon.
2. Research Methodology- Methods and Techniques, CK Kothari, New Age International.
3. Solarphotovoltaic's: Fundamentals, Technologies and Applications, C.S.Solanki, 2nd Edition, Prentice hall of India, 2011.
4. Solar cells: Operating principles, technology and system applications, by Martin A. Green, Prentice- hall Inc, Englewood Cliffs, NJ, USA,
5. Physics of Solar Cells: From Basic Principles to Advanced Concepts Peter Würfel Wiley-VCH; 1 edition
6. Organic Electronics: Materials, Manufacturing, and Applications Hagen Klauk Wiley-VCH; 1 edition
7. Organic Molecular Solids Markus Schworer (Author), Hans Christoph Wolf, Wiley- VCH; 1 edition (March 27, 2007)
8. Semiconductor Devices Modeling and Technology" by Nandita Das Gupta Amitava Das Gupta, Prentice Hall of India Pvt. Ltd.
9. Digital image processing: Gonzalez and Woods, 2nd Edition, Pearson Education Publication
10. Fundamental of Digital Image processing- A.K. Jain, PHI.

Paper - II

Course Objective:

- To introduce basic concept of writing the research article
- To develop the understanding of literature review in the specific field of electronics.

Course Outcomes:

- Student will be able to design, analyse, and present the research work.
- Student will also be able to develop the skill to write research and review paper, research projects, thesis and technical article etc.

Activities with direct bearing on Employability/ Entrepreneurship/ Skill development:

It helps in Skill Development of Review of Literature

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Review of Literature in Concerned Subject, Seminar/ Project Report

Review work related to latest developments in any related field excluding Ph.D. thesis topics.

The student should submit a detailed report of the review work and deliver a seminar before submission of report and final seminar.

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Syllabus for Ph.D. Course work in Geography (2022-23)

Paper – II Geography – elective (15 C)

There are two papers: each with 15 credits. Total credit: 15 X2 = 30

I credit = Five lecture of 1 hour each.

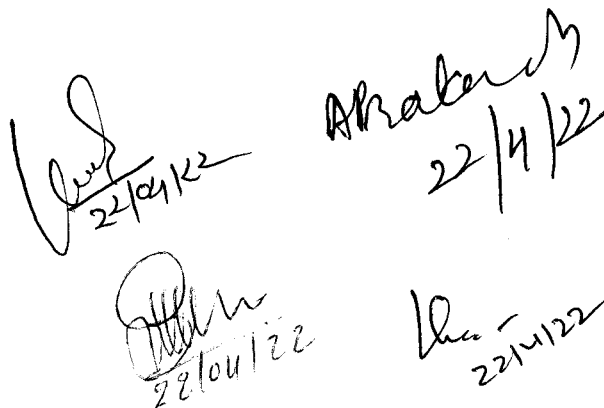
C= credit; L = Lecture

Paper - I Research Methodology, Computer Fundamentals, Statistical tools and techniques in Geography (15 C)

Paper – II Geography – elective (15 C)

Paper - I : Research Methodology, Computer Fundamentals, Statistical tools and techniques in Geography (15 C)

A	Research Methodology : Procedure of Scientific Research, Defining Research Problem, Review of Literature, Formulation Hypothesis, Research design, Explanation in Geography
B	Sources of data in Geography, Methods of data collection: observation, schedule, questionnaire and interview, Processing of data: editing, coding, classification and tabulation, data Representation Techniques, Sampling: sampling methods and size of the sample.
C	Analysis of data: Measurement of Central Tendency, dispersion and relationship, probability, Important Scaling techniques, Quantitative techniques: Correlation; Rank order Correlation, Product Movement Correlation.
D	Describing Point Patterns; Mean Centre, Nearest Neighbor Analysis, Hypothesis Testing: 't'- Test' 'F' Test, Chi-square Test, Rank Size Rule, Lorenz Curve, Functional Classification of towns, Linear Regression.
E	Interpretation and preparation of Research Report: Meaning and techniques of interpretation, Research ethics, steps, layout and type of reports, Structure of Research Report, Plagiarism, Reference, Bibliography, Formulating Research Paper, citations.
F	Computer application: Computer fundamentals, Microsoft office (word, Excel and Power Point), internet, Computer cartography, Remote sensing and GIS application.



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Paper – II - Elective (15 C)

A1	Geomorphology	
A2	Population Geography	
A3	Social Geography	
A4	Settlement Geography (Rural and Urban)	
A5	Agriculture Geography	
A6	Resource Geography	
A7	Regional Development and Planning	
A8	Remote Sensing and GIS	
B	Review writing-Topic of review relevant to the proposed Ph. D. work	
C	Writing of research proposal, statement of problem, objective, hypothesis, and plan of the thesis.	
D	Thesis writing, Formats of report writing, Formats of Publications in research Journals; Bibliography	
E	Seminar presentation; Preparation of Research Paper	

Scheme of examination for the pre-Ph.D. course work for Geography		
	Examination scheme	
1	The question paper will be of 100 marks	
2	There will be five questions. All the five questions shall be compulsory.	
3	The pattern of the question paper shall be as follows:	
	Q. 1 Objective questions of multiple choice type (40 questions to be answered) covering contents of both papers equally.	40
	Q.2. Short answers type questions (in about 50-100 words)	10
	Q.3. Shorts notes (in about 200-250 words)	10
	Q.4. Preparation of any suitable research proposal	20
	Q. 5. Preparation of any research paper	20
4	The answer papers will be assessed independently by two examiners.	
5	The candidate must obtain 50% or more marks to qualify in the course work	

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SCHOOL OF STUDIES IN HISTORY
Pt. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR (C.G.)

COURSE WORK FOR Ph. D. IN HISTORY

Prog. Code- Ph. D. HIS. 0201

Paper Code- Ph. D. HIS. 020130

Effective from 2011

Session - 2022-23

S.N.	PAPERS	MARKS
1	Methodological Aspect of Research in History	100
2	Practical a. Review of Related Literature (Marks - 20) b. Seminar : (Marks - 20) c. Project Report/Dissertation (External - 40) & (Internal - 20)	100
TOTAL MARKS		200

Course Learning Outcome:-

The aim of the course is to provide students with an introduction to research methods and report writing. Upon successful completion of the course you are expected to develop understanding on various kinds of research, objectives of doing research, research process, research designs and sampling. Have basic knowledge on qualitative research techniques.

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Paper - I
Methodological Aspects of Research in History

M.M. - 100

UNIT - I

1. Research - Meaning, aims and importance
2. Stages of synopsis preparation-selection of topic, Review of related Literature.
3. Hypothesis formation-meaning, aims, kind.
4. Selection of Research methodology, Chapterisation, Bibliography.

UNIT - II

5. Observation-meaning, importance, kind
6. Historical field observation-inscriptions, monuments,
7. Historical Documents Observation-Primary sources-Manuscripts, Published matters (Government and Non Government), Letters.
8. Historical documents observation-Secondary sources Books, Research papers, News papers

UNIT - III

9. Sociological observation-meaning, aims, importance.
10. Sociological observation-equipments, process, kinds.
11. Sample-kinds, technique.
12. Questionnaire-preparation of questions, kinds, verification

UNIT - IV

13. Interview-meaning, aims, importance, equipments.
14. Interview-classification, technique, problems
15. Statistical tools and analysis.
16. Computer application-Data entry and use of MS office and PPT in research

UNIT - V

17. Cross examination of sources and Interpretation.
18. Stages of thesis writing- Test of Hypothesis, co-relation.
19. Quotations, Footnotes, References, Bibliography.
20. Writing of Research Paper, Project Report and Book Review.

Add. Unit VI.16 Computer application-Data entry and use of MS office and PPT in research

Paper - II (Practical)**M.M.- 100****Part(a) : Review of Related Literature****(M-20)**

The candidate shall review minimum 20 research articles of a broad research area from referred journals of the discipline. After reviewing the research articles the candidate shall submit a summary chronologically developing the arguments to the Department within two months from the beginning of the Course. On the basis of the review of literature the candidate shall prepare a synopsis including.

- i. Research
- ii. Review of Literature
- iii. Gaps in earlier Studies
- iv. Statement of Problem.
- v. Objectives
- vi. Hypotheses
- vii. Methodology
- viii. Plan of the Study

Part – (b) - Seminar**(Marks - 20)**

The candidate shall present a seminar on the synopsis. On the basis of the suggestions made in the seminar, the candidate shall prepare a project report/dissertation. Final examination will be conducted with the help of an external examiner in the presence of the internal examiner.

Part – (c) Project Report / Dissertation**(Marks - 60)**

(External - 40) & (Internal - 20)

Atk
14.7.22

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Suggested Readings:

- E.H Carr: *What is History*, Penguin, 2008
- Marc Bloch, *The Historian's Craft (Introduction and Chapter I: History, Men and Time)*, Manchester University Press, 1992
- E. Sreedharan, *A Text book of Historiography 500 BC to AD 2000*, Orient Longman, 2004
- Arthur Marwick, *New Nature of History: Knowledge, Evidence and Language (Chapter V: The Historian at Work: Forget 'Facts', Foreground Sources)*, Lyceum Books Incorporated, 2001.
- Arthur Marwick, *The Nature of History (Chapter IV: History, Science and Social Science)*, London: Macmillan, 1989.
- Thomson, D. Renier, G.J.: *The Aims of History (London: James and Hudson, 1969); History: Its Purpose and Methods (London: George Allen & Unwin, 1950)*
- Postan, M.M: *Fact and Relevance: Essay on Historical Method: Cambridge university, Press, 1971*
- Hockett, H.C: *The Critical Method in Historical Research and Writing (New York: Macmillan, 1966)*
- Ali B. Sheikh: *History: Its Theory and Method*, Macmillan India Limited, New Delhi, 1978.
- Bajaj Satish K: *Research Methodology in History, new Delhi, 2000*
- Vinay Mohan Sharma: *Shodh Pravidhi*, national Publishing House, Delhi, 1973.
- Kumar Ranjit: *Research Methodology: A step by step guide for beginners*, Sage Publication, 2004.
- Kothari, C.R. *Research Methodology; Methods and Techniques, New Age International, 2004.*
- Pal Abha Rupendra and Khute, Dishwar Nath, *Samajik Vigyan Ki Shodh Pravidhiyan, Sarwapriya Pub. Delhi, 2011*



**Pt. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR
(CHHATTISGARH) INDIA**

G.E. Road, Amanaka, Raipur (C.G.) 492010
Website- www.prsu.ac.in, Email: prsuacademic@prsu.ac.in,
Phone - 0771-2262802

No. 89 /Acad./IEC/2022

Raipur, Date : 13/09/2022

NOTIFICATION

The Institutional Ethics Committee (IEC) for Human Research, Pt. Ravishankar Shukla University, is being constituted in accordance with the guidelines for preparing standard operation procedure (SOP). The names, position, and addresses of the members of the IEC are outlined below:

S. No.	Subject Expert	Discipline	Position	Address
1.	Padma Shri Dr. A.T. Dabke (Clinician)	Padiatrics	Chairperson	Former Vice Chancellor The Ayush & Health Sciences University of Chhattisgarh, Civil Lines, Raipur – 492001 dabkeat@yahoo.co.in 9826123479
2.	Prof. Preeti K. Suresh (Pharmacist)	Pharmaceutics	Deputy Chairperson	Professor University Institute of Pharmacy, Pt. Ravishankar Shukla University Raipur – 492010 suresh.preeti@gmail.com 9827938427
3.	Prof. Meenakshi Sinha (Medical Scientist)	Medical Physiology	Member	Professor Department of Physiology, AIIMS, Tatibandh, G.E. Road, Raipur – 492099 sinham66@yahoo.com 8518881709
4.	Dr. Arvind Kumar Shukla (Statistician)	Statistician	Member	Assistant Professor Department of Community & Family Medicine, AIIMS, Tatibandh, G.E. Road, Raipur – 492099 drarvindkshukla@aiimsraipur.edu.in , arvindshukla_vns@rediffmail.com 918650017371
5.	Dr. Preetam Narayan Wasnik (Clinician)	General Medicine	Member	Associate Professor Department of General Medicine, AIIMS, Tatibandh, G.E. Road, Raipur – 492099 pnwasnik@aiimsraipur.edu.in 919823706618
6.	Dr. Vivek Choudhary (Medical Scientist/ Clinician)	Medical Oncologis	Member	Director, Regional Cancer Center, Professor & Head, Department of Radiotherapy, Dr. B.R. Ambedkar Memorial Hospital, Raipur – 492001 drvivekc@yahoo.ca 9826064727
7.	Dr. Arun Kedia (Clinician)	Cardiodiabetes	Member	Lifeworth Super Speciality Hospital, Samta Colony, Raipur – 492001 kediaarun@yahoo.com ; 9826131347
8.	Prof. CD Agashe (Basic Scientist)	Sports Psychology	Member	Professor SoS in Physical Education, Pt. Ravishankar Shukla University, Raipur – 492010 cagash@yahoo.com 9425503534

9.	Prof. Aditi Poddar (Basic Scientist)	Parasitology and Immunology, Environmental Toxicology	Member	Professor SoS in Life Science, Pt. Ravishankar Shukla University, Raipur – 492010 adinpod@gmail.com 8839440215
10.	Dr. L.S. Gajpal (Social Scientist)	Rural Labour Migration	Member	Associate Professor, SoS in Psychology, Pt. Ravishankar Shukla University, Raipur – 492010 gajpal14@gmail.com 9826197413
11.	Mr. G.C. Das (Lay person from the community)	Senior Citizen	Member	MIG-76, Housing Board Tatibandh, Raipur - 492099 gcdas18@yahoo.com 9826424060
12.	Shri J.L. Gahare (Philosopher)	Philosophy of Religion	Member	Associate Professor Swami Vivekanand Memorial SoS in Comparative Religion, Philosophy & Yoga, Pt. Ravishankar Shukla University, Raipur – 492010 gaharejagelal@yahoo.com 9301551999
13.	Dr. Venudhar Rautiya (Legal Expert)	Constitutional and Administrative Law	Member	Assistant Professor SoS in Law, Pt. Ravishankar Shukla University, Raipur – 492010 venucgvs@gmail.com 9752024287
14.	Prof. Arti Parganiha (Member-Secretary)	Chronobiology. Animal Behavior, Animal Physiology	Member-Secretary IEC for Human Research	Professor School of Studies in Life Science Pt. Ravishankar Shukla University Raipur – 492010 arti.parganiha@gmail.com 9826551089

Normally, The IEC for Human Research will meet 2-3 times per year and will review and approve all types of research proposal involving human participants with a view to safeguard the dignity, rights, safety, and well-being of all actual and potential research participants. The Committee may also have additional meetings depending upon the requirement of the researcher of the university, its affiliated colleges, and recognized research centers.

S. Patel
12/9/22
Registrar

Endt. No. 90 /Acad/IEC/2022

Raipur, Date 13 /09/2022

Copy to:

1. All concerned
2. All Heads of the SoS/ Institute
3. DCDC with a request to circulate the notification in all affiliated colleges of PRSU
4. Director, IQAC, Pt. Ravishankar Shukla University, Raipur
5. Dy. Registrar, Academic Section
6. Finance Controller
7. Secretary to the hon'ble VC, Pt. Ravishankar Shukla University, Raipur
8. PA to the Registrar, Pt. Ravishankar Shukla University, Raipur

S. 12/09/22
Officer on Special Duty (Acad.)

NCC
9.9.22

Guidelines for preparing Standard Operating Procedures (SOP) for Institutional Ethics Committee for Human Research

1. Objective:

The objective of this SOP is to contribute to the effective functioning of the Institutional Ethics Committee (IEC) so that a quality and consistent ethical review mechanism for health and biomedical research is put in place for all proposals dealt by the Committee as prescribed by the Ethical guidelines for biomedical research on human subjects of ICMR.

2. Role of IEC

IEC will review and approve all types of research proposals involving human participants with a view to safeguard the dignity, rights, safety and well being of all actual and potential research participants. The goals of research, however important, should never be permitted to override the health and well being of the research subjects.

The IEC will take care that all the cardinal principles of research ethics viz. Autonomy, Beneficence, Non - maleficence and Justice are taken care of in planning, conduct and reporting of the proposed research. For this purpose, it will look into the aspects of informed consent process, risk benefit ratio, distribution of burden and benefit and provisions for appropriate compensations wherever required. It will review the proposals before start of the study as well as monitor the research throughout the study until and after completion of the study through appropriate well documented procedures for example annual reports, final reports and site visits etc. The committee will also examine compliance with all regulatory requirements, applicable guidelines and laws.

The mandate of the IECs will be to review all research projects involving human subjects to be conducted at the Institute, irrespective of the funding agency. The role of IEC can be modified according to the requirement of each Institute

3. Composition of IEC

IECs should be multidisciplinary and multisectorial in composition. Independence and competence are the two hallmarks of an IEC.

The number of persons in an ethical committee should be kept fairly small (7-9 members). It is generally accepted that a minimum of five persons is required to compose a quorum. There is no specific recommendation for a widely acceptable maximum number of persons but it should be kept in mind that too large a Committee will make it difficult in reaching consensus opinions. 12-15 is the maximum recommended number.

Indian Council of Medical Research

The Chairperson of the Committee should preferably be from outside the Institution and not head of the same Institution to maintain the independence of the Committee. The Member Secretary who generally belongs to the same Institution should conduct the business of the Committee. Other members should be a mix of medical / non-medical scientific and non-scientific persons including lay public to reflect the differed viewpoints.

The composition may be as follows :-

1. Chairperson
2. 1-2 basic medical scientists.
3. 1-2 clinicians from various Institutes
4. One legal expert or retired judge
5. One social scientist / representative of non-governmental voluntary agency
6. One philosopher / ethicist / theologian
7. One lay person from the community
8. Member-Secretary

The ethical committee at any institution can have as its members, individuals from other institutions or communities if required. There should be adequate representation of age, gender, community, etc. in the Committee to safeguard the interests and welfare of all sections of the community / society. Members should be aware of local, social and cultural norms, as this is the most important social control mechanism. If required, subject experts could be invited to offer their views, for example for drug trials a pharmacologist, preferably a clinical pharmacologist, should be included. Similarly, based on the requirement of research area, for example HIV, genetic disorders etc. specific patient groups may also be represented in the Committee. The membership of IEC will include Epidemiologist(s), Sociologist(s), Lawyer(s), Theologian, Statistician(s), Clinician(s), Basic scientists, Pharmacist(s)/Clinical Pharmacologist(s) etc They should be appointed by the Head of the Institute based on their competencies and integrity, and could be drawn from any public or private Institute from anywhere in the country.

IEC should be constituted in the following pattern :

- i) A Chairperson
- ii) A Deputy Chairman if need be,
- iii) A Member Secretary,
- iv) 5-15 members from different Departments / Specialties / disciplines or areas etc.

4. Authority under which IEC is constituted:

The Institutional Head constitutes the IEC.

5. Membership requirements:

- a. The duration of appointment is initially for a period of 2-3 years

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- b. At the end of 2-3 years, as the case may be, the committee is reconstituted, and 50% of the members will be replaced by a defined procedure.
- c. A member can be replaced in the event of death or long-term nonavailability or for any action not commensurate with the responsibilities laid down in the guidelines deemed unfit for a member.
- d. A member can tender resignation from the committee with proper reasons to do so.
- e. All members should maintain absolute confidentiality of all discussions during the meeting and sign a confidentiality form.
- f. Conflict of interest should be declared by members of the IEC

6. Quorum requirements:

The minimum of 5 members are required to compose a quorum. All decisions should be taken in meetings and not by circulation of project proposals.

7. Offices

The Chairperson will conduct all meetings of the IEC. If for reasons beyond control, the Chairperson is not available, the Deputy Chairperson or an alternate Chairperson will be elected from the members by the members present, who will conduct the meeting. The Member Secretary is responsible for organizing the meetings, maintaining the records and communicating with all concerned. He/she will prepare the minutes of the meetings and get it approved by the Chairman before communicating to the researchers with the approval of the appropriate authority.

8. Independent consultants

IEC may call upon subject experts as independent consultants who may provide special review of selected research protocols, if need be. These experts may be specialists in ethical or legal aspects, specific diseases or methodologies, or represent specific communities, patient groups or special interest groups e.g. Cancer patients, HIV/AIDS positive persons or ethnic minorities. They are required to give their specialized views but do not take part in the decision making process which will be made by the members of the IEC.

9. Application Procedures:

- a. All proposals should be submitted in the prescribed application form, the details of which are given under Documentation
- b. All relevant documents should be enclosed with application form
- c. Required number of copies of the proposal along with the application and documents in prescribed format duly signed by the Principal Investigator (PI) and Co-investigators / Collaborators should be forwarded by the Head of the Departments / Institution to the ethics committee.
- d. The date of meeting will be intimated to the researcher, to be present, if necessary to offer clarifications.

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- e. The decision will be communicated in writing. If revision is to be made, the revised document in required number of copies should be submitted within a stipulated period of time as specified in the communication or before the next meeting.
- f. Prescribed fee if any, should be remitted along with the application.

10. Documentation:

For a thorough and complete review, all research proposals should be submitted with the following documents :

1. Name of the applicant with designation
2. Name of the Institute/ Hospital / Field area where research will be conducted.
3. Approval of the Head of the Department / Institution
4. Protocol of the proposed research
5. Ethical issues in the study and plans to address these issues.
6. Proposal should be submitted with all relevant enclosures like proformae, case report forms, questionnaires, follow - up cards, etc.
7. Informed consent process, including patient information sheet and informed consent form in local language(s).
8. For any drug / device trial, all relevant pre-clinical animal data and clinical trial data from other centres within the country / countries, if available.
9. Curriculum vitae of all the investigators with relevant publications in last five years.
10. Any regulatory clearances required.
11. Source of funding and financial requirements for the project.
12. Other financial issues including those related to insurance
13. An agreement to report only Serious Adverse Events (SAE) to IEC.
14. Statement of conflicts of interest, if any.
15. Agreement to comply with the relevant national and applicable international guidelines.
16. A statement describing any compensation for study participation (including expenses and access to medical care) to be given to research participants; a description of the arrangements for indemnity, if applicable (in study-related injuries); a description of the arrangements for insurance coverage for research participants, if applicable; all significant previous decisions(e.g., those leading to a negative decision or modified protocol) by other ECs or regulatory authorities for the proposed study (whether in the same location or elsewhere) and an indication of the modification(s) to the protocol made on that account. The reasons for negative decisions should be provided.
17. Plans for publication of results – positive or negative- while maintaining the privacy and confidentiality of the study participants.
18. Any other information relevant to the study

11. Review procedures:

- a. The meeting of the IEC should be held on scheduled intervals as prescribed and additional meetings may be held as and when the proposals are received for review.

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- b. The proposals will be sent to members at least 2 weeks in advance.
- c. Decisions will be taken by consensus after discussions, and whenever needed voting will be done.
- d. Researchers will be invited to offer clarifications if need be.
- e. Independent consultants/Experts will be invited to offer their opinion on specific research proposals if needed.
- f. The decisions will be minuted and Chairperson's approval taken in writing.

12. Element of review

- a. Scientific design and conduct of the study.
- b. Approval of appropriate scientific review committees.
- c. Examination of predictable risks/harms.
- d. Examination of potential benefits.
- e. Procedure for selection of subjects in methodology including inclusion/ exclusion, withdrawal criteria and other issues like advertisement details.
- f. Management of research related injuries, adverse events.
- g. Compensation provisions.
- h. Justification for placebo in control arm, if any.
- i. Availability of products after the study, if applicable.
- j. Patient information sheet and informed consent form in local language.
- k. Protection of privacy and confidentiality.
- l. Involvement of the community, wherever necessary.
- m. Plans for data analysis and reporting
- n. Adherence to all regulatory requirements and applicable guidelines
- o. Competence of investigators, research and supporting staff
- p. Facilities and infrastructure of study sites
- q. Criteria for withdrawal of patients, suspending or terminating the study

13. Expedited review

All revised proposals, unless specifically required to go to the main committee, will be examined in a meeting of identified members convened by the Chairman to expedite decision making. Expedited review may also be taken up in cases of nationally relevant proposals requiring urgent review. The nature of the applications, amendments, and other considerations that will be eligible for expedited review should be specified.

14. Decision-making

- a. Members will discuss the various issues before arriving at a consensus decision.
- b. A member should withdraw from the meeting during the decision procedure concerning an application where a conflict of interest arises and this should be indicated to the chairperson prior to the review of the application and recorded in the minutes.
- c. Decisions will be made only in meetings where quorum is complete.
- d. Only members can make the decision. The expert consultants will only offer their opinions.

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- e. Decision may be to approve, reject or revise the proposals. Specific suggestions for modifications and reasons for rejection should be given.
- f. In cases of conditional decisions, clear suggestions for revision and the procedure for having the application re-reviewed should be specified.
- g. Modified proposals may be reviewed by an expedited review through identified members.
- h. Procedures for appeal by the researchers should be clearly defined.

15. Communicating the decision

- a. Decision will be communicated by the Member Secretary in writing.
- b. Suggestions for modifications, if any, should be sent by IEC.
- c. Reasons for rejection should be informed to the researchers.
- d. The schedule / plan of ongoing review by the IEC should be communicated to the PI.

16. Follow up procedures

- a. Reports should be submitted at prescribed intervals for review.
- b. Final report should be submitted at the end of study.
- c. All SAEs and the interventions undertaken should be intimated.
- d. Protocol deviation, if any, should be informed with adequate justifications.
- e. Any amendment to the protocol should be resubmitted for renewed approval.
- f. Any new information related to the study should be communicated.
- g. Premature termination of study should be notified with reasons along with summary of the data obtained so far.
- h. Change of investigators / sites should be informed.

17. Record keeping and Archiving

- a. Curriculum Vitae (CV) of all members of IEC.
- b. Copy of all study protocols with enclosed documents, progress reports, and SAEs.
- c. Minutes of all meetings duly signed by the Chairperson.
- d. Copy of all existing relevant national and international guidelines on research ethics and laws along with amendments.
- e. Copy of all correspondence with members, researchers and other regulatory bodies.
- f. Final report of the approved projects.
- g. All documents should be archived for prescribed period.

18. Updating IEC members

- a. All relevant new guidelines should be brought to the attention of the members.
- b. Members should be encouraged to attend national and international training programs in research ethics for maintaining quality in ethical review and be aware of the latest developments in this area.

F. No. 25/65/2013 – AWD
Government of India
Ministry of Fisheries, Animal Husbandry and Dairying
Department of Animal Husbandry and Dairying
O/o Committee for the purpose of Control and Supervision of Experiments on Animals

Krishi Bhawan, New Delhi-110001
Dated:31.03.2020

To,

Prof. Preeti K. Suresh, Chairperson, IAEC,
Institute of Pharmacy, Pt. Ravishankar Shukla University,
Raipur, Chhattisgarh - 492 010
Email:suresh.preeti@gmail.com
Mobile:9827938427

Subject: Renewal of Registration and Reconstitution of Institutional Animals Ethics Committee (IAEC)-regarding.

Madam,

The registration of Animal House Facility of your establishment with CPCSEA has been renewed for a period of five years from the date of issue of this letter.

2. The new registration number of Animal House Facility of your establishment is **923/GO/Re/S/06/CPCSEA** for **Research for Education purpose on small animals**. Henceforth, the new registration number may kindly be quoted in all your future correspondence with this office.

3. The CPCSEA has accepted the following members recommended by the establishment.

S.No.	Name of the IAEC Members	Designation in IAEC
1	Prof. Preeti K. Suresh	Scientist Incharge of Animal House Facility, Chairperson
2	Rakesh Tirkey	Biological Scientist, Member Secretary
3	Dr. Amber Vyas	Scientist from different biological discipline
4	Dr. Deependra Singh	Scientist from different biological discipline
5	Dr. Nalin Sharma	Veterinarian

Contd....



4. CPCSEA hereby nominates the following members to the Institutional Animals Ethics Committee (IAEC) of your establishment:

S.No.	Nominee Detail	Nominated as
1	Dr. Trilochan Satapathy, MIG- Flat No-02, Block-1 Pirda Housing Board Colony Infront of Harseet Petrol Pump, Pirda -2, Raipur – 492101, Chhattisgarh Contact No :7898369287, Email :trilochansatapathy@yahoo.co.in	Main Nominee
2	Dr. Ajazuddin, Professor, Dept of Pharmaceutics, Rungta College of Pharmaceutical Sciences & Research, Kohka - Kurud Road, Bhalai - 490024, Chhattisgarh. Contact No :9827199441, Email :write2ajaz@gmail.com	Link Nominee
3	Dr. Nagendra Singh Chauhan, Senior Scientific Officer Grade, Drugs Testing Laboratory Avam Anusandhan Kendra, Raipur, Chhattisgarh - 492010 Contact No :9406558176, Email :chauhan.nagendra@gmail.com	Scientist from out side of the Institute
4	Dr. Bibekananda Meher, Associate Professor, C/O: Kalidas Roy, Sanjay Mobile Zone, Main Road, Anand Nagar, PO. Mana Camp, Dist. Raipur, Chhattisgarh - 492105 Contact No :9457953057, 8126451119, Email :meherbibek@gmail.com	Socially aware Nominee

(Please note that any change in IAEC members can be made only with prior approval of CPCSEA.)

5. The IAEC is valid for a period of five years and is coterminous with renewed period of registration. IAEC is required to be reconstituted at the time of renewal of registration as per CPCSEA guidelines.

6. You are requested to convene the meeting of the re-constituted IAEC within a period of 30 days and upload the same on the website of the CPCSEA.

7. It is stated that only above approved IAEC members shall sign, with date, on the attendance sheet of the IAEC meetings, and decisions will be taken only in meetings where quorum is complete. The quorum for holding IAEC meeting is six (6), and Main Nominee, Scientist from outside of the Institute and Socially aware must be present in such meetings. Link Nominee can attend in case main nominee conveys his unavailability in writing to the chairman IAEC. Any decision taken in the meetings of IAEC without quorum shall be considered invalid.

8. It is also to inform you that before commencing any research on large animals you are required to send research protocols with due recommendation of IAEC to CPCSEA for further approval (procedure for submission of Research Protocols is available on the website of CPCSEA).

Contd....



9. Further, you are requested to expedite the process for appointment of permanent / full-time Veterinarian and after the appointment, you are requested to submit the request for revision of IAEC through the website of CPCSEA.

Yours sincerely,



(Dr. S. K. Dutta)
Member Secretary (CPCSEA)

Copy for necessary action to: Nominees of CPCSEA.

The Main Nominee is requested to ensure that the IAEC meetings are held regularly as stipulated in the SOP of CPCSEA and submit the Annual Inspection Reports of the Animal House Facility regularly on the Website of CPCSEA.

ORDINANCE No. 45
DOCTOR OF PHILOSOPHY

(As per UGC Regulation 2016)

(Approved by the Co-ordination Committee dated 19-04-2017)

(Governor office letter no. F 7-1/2014/रास/यू. Dated : 04-10-2017 and Commissioner, Higher Education
Letter no.989 / 05 / आउशि / समन्वय / 2017 Date 03-11-2017)

Preamble

1. The degree of Doctor of Philosophy (Ph.D.) may be granted in any discipline, belonging to any faculty of the Pt. Ravishankar Shukla University (hereafter: University), in which post-graduate studies and/or research is available at the University or at its affiliated Colleges that are recognized as research centers by the University.
2. All academic matters related to Ph.D. degree shall be processed by a Departmental Research Committee (hereafter: DRC) consisting of the following:
 - i. Head of the School/ Department (Chair), for UTD or Principal (Chair), for affiliated colleges of the University
 - ii. All teachers of the School/ Department/ Department of affiliated colleges of the University who are recognized by the University as Ph.D. supervisors.
 - iii. There should be at least three members, including the chairman of the DRC.
 - iv. The Kulapati shall nominate members from other/related departments in case the number of recognized Ph.D. guides is less than two in any School/ Department/ approved research centers of the affiliated colleges of the University.
3. **Eligibility for Registration for the Degree of Doctor of Philosophy**

A

Candidates for admission to the PhD program shall have a Master's degree or a professional degree declared equivalent to the Master's degree by the corresponding statutory regulatory body, with at least 55% marks in aggregate or its equivalent grade 'B' in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed) or an equivalent degree from a foreign educational Institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing, accrediting or assuring quality and standards of educational institutions.

Provided that a relaxation of 5% of marks, from 55% to 50%, or an equivalent relaxation of grade, may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently-abled and other categories of candidates as per the decision of the Commission from time to time, or for those who had obtained their Master's degree prior to 19th September, 1991. The eligibility marks of 55% (or an equivalent grade in a point scale wherever grading system is followed) and the relaxation of 5% to the categories mentioned above are permissible based only on the qualifying marks without including the grace mark procedures.

OR

Candidates who have cleared the M.Phil. Course work with at least 55% marks in aggregate or its equivalent grade 'B' in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed) and successfully completing the M.Phil. Degree shall be eligible to proceed to do research work leading to the Ph. D. Degree in the same Institution. A relaxation of 5% of marks, from 55% to 50%, or an equivalent relaxation of grade, may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/differently-abled

and other categories of candidates as per the decision of the Commission from time to time.

OR

A person, whose M.Phil. dissertation has been evaluated and the viva voce is pending may be admitted to the Ph.D. program of the same Institution.

OR

Candidates possessing a Degree considered equivalent to M.Phil. Degree of an Indian Institution, from a Foreign Educational Institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing, accrediting or assuring quality and standards of educational institutions, shall be eligible for admission to Ph.D. program.

B Provided that the candidate will be admitted to the Ph.D. program through an entrance test to be conducted once in a year, preferably in October by the University. The modalities of the test shall be decided by the University.

Candidates provisionally admitted to the program through an entrance test will be awarded with the University Fellowships depending upon their availability.

C Following candidates shall be exempted from appearing at the entrance test:

- i. Candidates, who qualify UGC-CSIR (JRF) examination, including NET lecturership/ SLET/ GATE/ GPAT or any other JRF examination conducted by national agencies, such as ICMR, ICSSR, etc.
- ii. (a) Candidate possessing M.Phil. degree from Pt. Ravishankar Shukla University, Raipur, provided that his/her admission to the M.Phil. degree has been through entrance examination.
(b) Candidate possessing M.Phil. degree from other recognized university has to appear at the entrance examination, but shall be exempted from course work if 'Research Methodology' has been a component of his/her M.Phil. degree.
- iii. Teacher Fellowship holder and University/ College teachers holding a regular position (regular appointment) and having completed two years of service as teacher in a department or affiliated colleges of the University.
- iv. Scientists of any recognized national (for example, DST-, CSIR-funded etc.) and international institutions (for example, WHO-funded etc.) having acquired two years experience.

4. Procedure for Admission/Registration

An eligible candidate (refer Clause 3) must apply for registration for Ph.D. degree of his/her subject on the prescribed form obtainable on payment of prescribed fee. The application shall be considered by the DRC of the concerned Schools/ Departments/ Affiliated Colleges.

The DRC will allocate the supervisor, with the mutual consent of the candidate and the guide, for an eligible candidate depending on the number of student per faculty member, the available specialization among the faculty supervisors and the research interest of the student as indicated during interview by the student. The candidate shall be required to finalize his/her admission at the Centre within a week from the date of DRC meeting called for the purpose.

All eligible candidates except in 3 C ii shall be required to undertake course work for a

minimum period of one semester. The course work must include Research Methodology which may consist of quantitative methods and computer applications. The course content shall be designed by the Board of Studies (BoS) of the concerned subject. The course work may also involve reviewing of published research in the relevant field.

On the recommendation of the Supervisor, the course work may be carried out by the candidates in sister schools/ departments/ institutes either within or outside the University.

The candidate shall be evaluated at the end of the semester. If the candidate is not able to pass the course with 55% marks, the candidate shall be allowed to reappear at the examinations within the next 12 months. The respective DRC will conduct the evaluation at the institutional/ departmental level.

While granting provisional admission to candidates to Ph.D. program the DRC will pay due attention to the National/ State reservation policy.

The candidates shall have to pay fees as decided by the university from time to time.

Provided that the teachers of the University and Teachers under the U.G.C. teacher fellowship scheme or any other scheme will not be required to pay the fees, except the registration fee and six-monthly progress report fee. The teachers of the other Universities shall be required to pay the Library and/or Laboratory Caution money.

5. Research Degree Committee (RDC):

The candidate shall be eligible to submit synopsis (as per **Appendix-1**) of his/her proposed research work, after successfully completing the course work, along with the title of the thesis (in six copies), making oral presentation of his/her proposal (synopsis) before the DRC in which the DRC may suggest alterations/ revisions in the synopsis, if required and such synopsis is duly forwarded by the chairman of the relevant DRC. He/ She shall be required to make an oral presentation of the proposed work before the Research Degree Committee consisting of the following members:

- i. Kulapati or his/her nominee
- ii. Dean of the Faculty
- iii. Head of the University Teaching Department/ School of Studies in the subject
- iv. Chairman, Board of Studies in the Subject
- v. One external subject expert of the rank of a University Professor/ Director of recognized Institutes to be appointed by the Kulapati, out of a panel of 5 experts given by the Chairman of the Board of Studies concerned. The term of the subject expert shall be coterminous with the tenure of the Board of Studies.

External expert and two other members shall form the quorum.

- Note:**
1. The Supervisor/ Co-supervisor are entitled to be present during the oral presentation of his/her candidate.
 2. No. TA and D.A. shall be payable to the candidate and the Supervisor/Co-supervisor for attending the Research Degree Committee meeting.

- 6.** The meeting of the Research Degree Committee shall be held in the University Office twice a year preferably in July and January. The committee shall confirm a list of approved Supervisor/Co-Supervisor along with their specializations, prepared by the DRC. This list shall be available with the Registrar/ Academic section of the University.

The committee shall formally recommend the registration of the candidate for the Ph. D. degree.

On approval by the RDC the candidate shall be registered and enrolled as a student from the date of his/her admission in the research center. He/ She will also be required to pay regular

tuition, library and laboratory fees (six-monthly) during his/her research tenure. The RDC has the right to suggest revision/alterations (if required) in the synopsis forwarded by the DRC.

Provided that if the RDC does not recommend a candidate for registration to Ph.D. degree, the caution money deposited by the candidate shall be refunded.

7. A candidate shall ordinarily be permitted to work for Ph.D. degree in the subject in which he/she has obtained his/her post-graduate degree.

Provided that research work leading to Ph.D. degree may be encouraged in allied subjects of interdisciplinary nature of the same faculty or of allied faculties. In such cases the candidate may also be permitted to work under one or two co-supervisors, along with the supervisor of the University.

8. A candidate shall pursue his/her research at the institution from where his/her application form has been forwarded under Clause 3 (b) of the Ordinance.

Provided that a candidate permitted to work in a research establishment* recognized by the University shall be required to take at least one co-supervisor along with the supervisor; one of them should be the teacher of the University and the other a Teacher/ Scientist/ Research Officer/ Director of the Institution where the candidate is actually working.

*Includes Institutions and Laboratories run and sponsored by the Union /State Governments or its agencies; and Foreign University/Institution of repute.

Provided also a candidate may be permitted to carry out his/her research/ practical work in a Research Institution/ Research Laboratory/ Laboratory of a University recognized by the University for the purpose under the supervision of a Scientist/ Director/ Teacher of the Institution who may or may not be the co-supervisor of the candidate.

9. **Supervisors/ Co-supervisors**

The person recommended as Supervisor/Co-supervisor to guide the Research Scholar must be:

Any regular Professor of the University/Institution Deemed to be a University/College with at least five research publications in refereed journals and any regular Associate/Assistant Professor of the university/institution deemed to be a university/college with a Ph.D. degree and at least two research publications in refereed journals may be recognized as Research Supervisor.

Provided that in areas/disciplines where there is no or only a limited number of refereed journals, the Institution may relax the above condition for recognition of a person as Research Supervisor with reasons recorded in writing.

Only a full time regular teacher of the concerned University/Institution Deemed to be a University/College can act as a supervisor. The external supervisors are not allowed. However, Co-Supervisor can be allowed in inter-disciplinary areas from other departments of the same institute or from other related institutions with the approval of the Research Advisory Committee.

The allocation of Research Supervisor for a selected research scholar shall be decided by the DRC concerned depending on the number of scholars per Research Supervisor, the available specialization among the Supervisors and research interests of the scholars as indicated by them at the time of interview/viva voce.

In case of topics which are of inter-disciplinary nature where the Department concerned feels that the expertise in the Department has to be supplemented from outside, the Department may appoint a Research Supervisor from the Department itself, who shall be known as the Research Supervisor, and a Co-Supervisor from outside the Department/ Faculty/College/Institution on such terms and conditions as may be specified and agreed upon by the consenting Institutions/Colleges.

A Research Supervisor/Co-supervisor who is a Professor, at any given point of time,

cannot guide more than three (3) M.Phil. and Eight (8) Ph.D. scholars. An Associate Professor as Research Supervisor can guide up to a maximum of two (2) M.Phil. and six (6) Ph.D. scholars and an Assistant Professor as Research Supervisor can guide up to a maximum of one (1) M.Phil. and four (4) Ph.D. scholars.

In case of relocation of an M.Phil/Ph.D. woman scholar due to marriage or otherwise, the research data shall be allowed to be transferred to the University to which the scholar intends to relocate provided all the other conditions in these regulations are followed in letter and spirit and the research work does not pertain to the project secured by the parent institution/supervisor from any funding agency. The scholar will however give due credit to the parent guide and the institution for the part of research already done.

10. Tenure of Ph.D. Work

- (a) Ph.D. program shall be for a minimum duration of three years, including course work and a maximum of six years.

The women candidates and Persons with Disability (more than 40% disability) may be allowed a relaxation of one year for M.Phil and two years for Ph.D. in the maximum duration. In addition, the women candidates may be provided Maternity Leave/Child Care Leave once in the entire duration of M.Phil/Ph.D. for up to 240 days.

The candidate shall pursue his/her research at the approved place of research under the Supervisor/Co-supervisors on the approved subject. In case a candidate does not submit his/her thesis within six calendar years, his/her registration shall stand automatically cancelled.

Provided also that Kulapati may permit a candidate to get re-registered on the same topic on payment of the prescribed re-registration fee. The minimum period and attendance shall not apply to such re-registered candidate.

- (b) The candidate possessing M.Phil. degree or a teacher with two years teaching experience at the time of registration can submit his/her thesis after 30 months instead of 36 months as provided in Clause 10 (a) of the Ordinance.
- (c) The candidate shall put in at least 300 days attendance, excluding attendance he/she will earn during the course work, in the research center and certified by the Supervisor and/or Co Supervisor.

11. Change of Supervisor

The candidate may be allowed to change the Supervisor by the Kulapati, on the recommendation of the DRC or committee constituted by the Kulapati for this purpose under special circumstances. No major change in the topic of research will be permitted due to change in supervisor.

12. Six-monthly Progress Report

The candidate shall submit every six months a record of attendance, receipt of fees paid and progress report of the work through his/her supervisor as per **Appendix-2**. If the progress of work is not found satisfactory in two successive reports or no reports are received for a period of one year and the candidate fails to deposit the prescribed fees, the Kulapati may order the removal of the name of the scholar from the list of those registered for the Ph.D. degree.

13. Submission of Summary of Thesis

- (a) Prior to submission of the thesis, the candidate shall make a pre-Ph.D. presentation before the DRC that may be open to all faculty members and research students, for getting feedback and comments, which may be suitably incorporated into the draft

- thesis under the advice of the supervisor.
- (b) The candidate shall submit six copies of the summary of the thesis together with at least one (1) research paper in refereed journal and make two paper presentations in conferences/seminars before the submission of the thesis for adjudication, and produce evidence for the same in the form of presentation certificates and/or reprints, through his/her Supervisor to the Registrar about two months prior to the anticipated date of submission of thesis.
 - (c) The supervisor shall submit a panel of at least six names of examiners actively engaged in the concerned area of research not below the rank of Reader or College Professor in a sealed cover to the Registrar. Provided that the panel of examiners shall be obtained from the Chairman, Board of Studies of the Subject concerned, in case the candidate is related to the supervisor.
 - (d) On the receipt of the panel of examiners from the supervisor and summary from the candidate, the Registrar shall call a meeting of Examination Committee of the subject constituted U/S 44 of the Adhinyam. The Committee considering the panel submitted by the Supervisor/ Chairman, Board of Studies, will prepare a panel of six names to act as examiners.
 - (e) THE TERM RELATIONS SHALL INCLUDE: Father, Mother, Wife, Husband, Daughter, Son, Grand Son, Grand Daughter, Brother, Sister, Nephew, Niece, Grand Nephew/Niece, Uncle, Aunt, Son-in-law, Sister-in-law, Father-in-law, First cousin-in-law etc.

14. The candidate shall submit three bound copies of his/her thesis along with the following:

- a) The candidate must append reprint of the published paper (Ref. 13.b) or acceptance letter and certificate of the publication of the papers in Symposium/Conference/Seminar.
- b) The thesis must be accompanied by a declaration from the candidate that the thesis embodies his/her own work and he/she has worked under the Supervisor at the approved place of work for the required period as per provisions of Clause 10 of Ordinance (Appendix-3).
- c) The certificate from the Supervisor together with Co-supervisors, if any, that the thesis fulfills the requirements of the Ordinance relating to the Ph.D. degree of the University (Appendix-4).
- d) The candidate shall also remit with the thesis the prescribed examination fee.
- e) Submission of Electronic copy of the Thesis/ Dissertation (ETD) is mandatory at the time of submission of the Ph.D. thesis (Appendix-5). The University shall submit a soft copy to the UGC within a period of 30 days after the award of the degree, for hosting the same in INFLIBNET, accessible to all Institutions /Universities.
- f) The candidate will submit a declaration that the thesis is free from plagiarism or produce a certificate from the institutional plagiarism cell to that effect (Appendix-6).

15. Evaluation Procedures following Submission of the Thesis

On receipt of the thesis along with the certificates and fee it shall be sent to the examiners already consented as per Clause 13 (d) of the Ordinance.

16. The thesis to be accepted for the award of the Ph.D. degree must comply with the following conditions:

- (a) It must be a piece of research work characterized either by the discovery of the facts or by a fresh approach towards the interpretation of facts. In either case it should evince the candidate's capacity for critical examination and sound judgment.
- (b) It must be satisfactory in point of language and presentation of the subject matter.
17. The examiners shall categorically recommend in the prescribed proforma (**Appendix-7**) acceptance, revision or rejection of the thesis together with detailed comments on the points spelled out in clause 16 of the Ordinance. The examiner must also give a list of the questions he/she wishes to be asked at the viva-voce examination.
- 18.
- (a) The examiners may seek clarification of the subject matter of the thesis from the Supervisor. The provision will be incorporated in the letter to be sent to the examiners while sending the thesis.
- (b) The Kulapati can recall the thesis from an examiner who fails to send the report within three months of the date of dispatch of the thesis and appoint another examiner.
- 19.
- (a) In case both the examiners reject the thesis or one of them rejects the thesis and the other recommends a revision the thesis shall be rejected.
- (b) If both the examiners recommend for the revision of the thesis the candidate shall be called upon to revise the thesis in the light of the observations of the examiners.
- (c) If one examiner approves the thesis and the other rejects it or recommends for revision the thesis shall be sent to the third examiner drawn from the panel of the examiners by the Kulapati with both the reports of earlier examiners. The names of earlier two examiners shall not be disclosed to the third examiner. The third examiner shall be asked to give his/her opinion on the points, raised by the earlier examiners while rejecting or recommending revision of the thesis. The opinion of the third examiner shall be final.
- (d) In case both the original examiners accept the thesis for the award of the Ph.D. Degree or in the event of it being referred to the third examiner, the third examiner accepts the thesis for the award of the Ph.D. Degree, the candidate shall be called upon to appear at the viva-voce examination before a board of examiners comprising of the Supervisor, Co-Supervisor (if any) and one of the two examiners selected by the Kulapati who have accepted the thesis for the award of the Ph.D. Degree. Provided that the Kulapati shall appoint the Chairman, DRC or Chairman, Board of Studies of the subject concerned to act as viva-voce examiner, in place of the Supervisor in case the candidate is related (Clause 13e) to the Supervisor.
- (e) The Supervisor/ Chairman, DRC, Chairman, Board of Studies of the subject concerned, as the case may be, shall be communicated the name of the external examiner appointed by the Kulapati to conduct the viva-voce examination. The date fixed for the viva-voce be informed to the candidate and the Registrar. Provided that in special circumstances Kulapati may appoint alternate viva-voce examiners if both the examiners are not in a position to conduct the viva-voce examination.
- (f) The viva-voce examination shall be conducted at the University Teaching Department/School of Studies in the subject or at any place fixed by the University for the purpose. The date, time and place of viva-voce examination shall be notified by the Registrar on the University Notice Board about a week in advance. At the time of viva-voce examination the board of examiners shall be provided with the reports of the examiners which shall be returned along with the report of viva-voce examination to the Registrar.
- (g) The candidate shall present the work embodied in the thesis before the board of examiners, members of faculty, research scholars and other interested persons. After the presentation of the research work the Board shall ask question together with those questions which have been given along with examiners reports. Others in the audience can also ask questions and the candidate shall reply only those questions

which are permitted by the external examiner.

- (h) In case the recommendation of the viva-voce examiner differs from that of the thesis examiner or there is difference of opinion between the viva-voce examiners, the candidate shall re-appear at a second viva-voce examination within six months. If the candidate fails to satisfy the viva-voce examiners a second time, his/her thesis shall be finally rejected. Such candidates would be required to pay the prescribed additional fee for the second viva-voce. The external examiner for second viva-voce shall be appointed by the Kulapati.

20. If the examiners recommend that the candidate be asked to revise/improve his/her thesis, the Kulapati shall permit the candidate to resubmit his/her thesis not earlier than six months and not later than eighteen months, the period being counted from the date of the issue of order to the candidate. The candidate shall be provided examiner (s) reports without disclosing the names of the examiners to enable him/her to improve the thesis. All the copies of the thesis shall also be returned to the candidate.

In case the candidate is allowed to resubmit the thesis he/she will have to pay the prescribed fee afresh at the time of resubmission, but it shall not be necessary for him to reproduce any certificate of further attendance at the Institution at which he/she carried out the work.

The resubmitted three copies of the thesis must mark clear mention that it is a revised version.

The thesis shall be got examined as far as possible by the examiners who finally recommended for the revision.

In case both the examiners of revised thesis accept the thesis for the award then the candidate shall be awarded with the Ph.D. Degree on successful viva-voce examination as per provisions of clause 19 of the Ordinance.

In case a candidate is asked to revise the thesis under clause 19 (b) and one of the examiners recommends again for revision and the other accepts the thesis for award then the thesis shall be sent to the third examiner. If the third examiner rejects or recommends for revision the thesis shall stand rejected. If, he accepts for the award then the candidate shall be awarded with the Ph.D. Degree on successful viva-voce examination as per provision of clause 19 of the Ordinance.

In case a candidate who has been asked to revise to thesis under clause 19 (c) and one of the examiners recommends again for revision and the other accepts the thesis for award then the candidate shall be awarded with the Ph.D. Degree on successful viva-voce examination as per provision of clause 19 of the Ordinance.

If the revised thesis is required to be revised a second time it shall automatically stand rejected.

21. Maximum number of research candidates that can be registered and allowed to pursue research work under a supervisor at any particular time shall be SIX only. The submission of a thesis shall create a vacancy for the admission of a new candidate for Ph.D. degree under the concerned supervisor.

Provided that the candidates registered with the Co-supervisor shall not be counted for the number of candidates under a Supervisor.

22. No research scholar shall join any other course, study or appear at any other examination conducted by any University leading to a degree (except Certificate/Diploma course of Languages, Research Methodology, Statistics, Computer courses).

23. The candidate, if so desires, is allowed to publish his/her thesis. However, such publication shall state on the title page itself that this was a thesis approved for the award of the Ph.D. Degree of the University.
24. The University agrees that a Ph.D. student is the owner of the copyright in his/her thesis.
25. After the viva-voce, the recommendation of the examiners shall be reported to the Executive Council for the award of Ph.D. Degree to the candidate. One copy of the thesis will be kept in the University Library and another copy will be kept in the Departmental Library of the Institution where the research work was carried out; the third will be returned to the Supervisor.
26. After the declaration of the result the successful candidates may be provided with the copies of reports of examiners who recommended for the award of the degree on payment of the prescribed fee. The reports will not disclose the identity of the examiners.
27. The candidates who have been already registered for Ph.D. Degree under the repealed Ordinance will continue to be governed by the Provisions of the repealed Ordinance.
The candidates who have applied for registration but have not been registered till this Ordinance comes into force shall be governed by the provisions of this Ordinance.
28. On detection of any irregularity, the University shall take suitable steps to withdraw the degree as per provisions of section 6 (12) of the Adhiniyam.

PROFORMA FOR SYNOPSIS (Clause 5 of the Ordinance - 45)

1. Title of the thesis :
2. Introduction (in about 200 words) :
3. A brief review of the work already done in the field :
4. Objectives
5. Noteworthy contribution in the field of proposed work :
6. Proposed methodology :
7. Expected outcome of the proposed work. :
8. Bibliography in standard format :
9. List of published papers of the candidate. :

Signature of the Supervisor

Signature of the Candidate

Forwarded

Chairman, DRC

CONFIDENTIAL (Clause 12 of the Ordinance - 45)

Six monthly Progress Report of the Research work done for the period from to of the research Scholar.

- 1. Name of the Research Scholar :
- 2. Subject :
- 3. Topic registered for Ph.D. Degree :
.....
.....
- 4. Name of the Supervisor :
- 5. Statement on the Research Activity Carried Out by the Candidate : Period with dates the candidates has been with the guide for research work. (Indicate the date of leave availed by the candidate during the above period).
- 6. Six monthly performance presentation Before DRC with date :

Fees paid vide receipt No.....Date.....

Signature of the Candidate

Remarks of supervisor on the work done by the candidate on the topic:

.....
.....
.....
.....

Signature of the Co-supervisor (if)

Signature of the Supervisor

Signature of the Chairman, DRC

DECLARATION BY CANDIDATE (Clause 14b of the Ordinance - 45)

I declare that the thesis entitled
..... is my
own work conducted under the supervision of Dr. (Supervisor /
Co-supervisor) at (Centre)
..... approved by the Research Degree Committee. I have put in 300
days of attendance excluding the attendance of the course-work, in the research centre.

I further declare that to the best of my knowledge the thesis does not contain any part of
any work, which has been submitted for the award of any degree either in this University or in
any other University/ Deemed university without proper citation.

Signature of the Supervisor

Signature of the Candidate

Signature of the Chairman, DRC

7. Details of previous research work (if any):	
Signature of the candidate	
8. Consent of the Guide	
Signature of the guide	
Note : If consent of the guide has not been taken then, candidate will have to mention the name of three guides in order of preference:	
Candidate preference order for Guide S.No.	Name of the Guide and address
1.	
2.	
3.	
9. Recommendation of the DRC for admission in Ph.D. Course :	
Date of DRC-	
(Signature of DRC Members)	
10. Exemption Status from the Course Work : Exempted /Not Exempted	
11.	(i) Allotment of the supervisor by the DRC (Name of the Supervisor recognized by the RDC of PRSU) : ----- Address with telephone number & Email ID ----- List of papers published in the last five years. (Enclosed reprint of at least one research paper).
	(ii) Date of Seminar :
	(iii) Results of the Course Work :
	(iv) Title of the Ph.D. Thesis :
	(v) Name of the Research Center where the research work will be carried out :
	(vi) Recommendation of DRC for Ph.D. Registration:
(Co-Supervisor)	(Signature of the Supervisor)
(Chairman DRC)	
Certificate by the Chairman, DRC	
This is to certify that Mr./Mrs./Ms./----- will be allowed to carry out research work in the school of Studies/College/ Institute and will be provided with the available research facilities .	
Signature with seal	

CERTIFICATE BY THE SUPERVISOR/ CO-SUPERVISORS
(Clause 14c of the Ordinance - 45)

This is to certify that the work entitled
..... is a piece of research work done by
Shri / Smt./ Ku. under my
(our) guidance and supervision for the degree of Doctor of Philosophy of
.....
Pt. Ravishankar Shukla University, Chhattisgarh, India. That the candidate has put in an
attendance of 300 days, excluding attendance of course-work, in the research centre.

To the best of my knowledge and belief this thesis

- [1] Embodies the work of the candidate himself/ herself.
- [2] Has duly been completed.
- [3] Fulfills the requirements of the Ordinance relating to the Ph.D. degree of the University;
and
- [4] Is up to the standard both in respect of contents and language for being referred to the
examiner.

Signature of the Co-Supervisor(s)

Signature of the Supervisor

Forwarded

Signature of the Chairman, DRC

Copy Right Transfer Approval Form
(Clause 14e of the Ordinance – 45)

Name of the Candidate:
Department:
Degree:
University:
Supervisor:
Thesis Title:
Year of Award:

Agreement

1. I hereby declare that, if appropriate, I have obtained and attached hereto a written permission/ statement from the owner(s) of each third party copyrighted matter to be included in my thesis/ dissertation, allowing distribution as specified below.
2. I hereby grant to the university and its agents the non-exclusive license to archive and make accessible, under the condition specified below, my thesis/ dissertation, in whole or in part in all forms of media, now or hereafter known. I retain all other ownership rights to the copyright of the thesis/ dissertation. I and my Supervisor also retain the right to use in future works (such as articles or books) all or part of this thesis, dissertation, or project report.

Condition:

1. Release the entire work for access worldwide

Signature of the Candidate

Signature and seal of the Supervisor

Place

Date

DECLARATION ON PLAGIARISM

I declare that all materials in my thesis entitled, "-----
-----" are my own work and do not involve plagiarism. I also
certify that:-

- a. No sentence, equation, diagram, table, paragraph or section has been copied verbatim from previous work unless it is placed under quotation marks and duly referenced.
- b. The work presented is original and my own work. No ideas, processes, results or words of others have been presented as my own work.
- c. Report on Plagiarism check is appended.

Raipur, Dated -----

Name & Signature of the Candidates

forwarded
Chairman, DRC



पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर (छ.ग.)

दूरभाष : 0771-2262802 (अकादमिक), 0771-2262540 (कुलसचिव), E-mail ID- academicprsu2@gmail.com

क्रमांक : 1354 /अका./2021

रायपुर, दिनांक : 05/02/2021

II अधिसूचना II

छत्तीसगढ़ शासन, उच्च शिक्षा विभाग, मंत्रालय के पत्र क्रमांक एफ 3-27/2020/38-2 दिनांक 11.01.2021 में प्राप्त अनुमोदन अनुसार विश्वविद्यालय के अध्यादेश क्रमांक-45 Doctor of Philosophy में निम्नानुसार संशोधन अधिसूचित किया जाता है -

क्र.	अध्यादेश क्रमांक	वर्तमान प्रावधान	प्रस्तावित संशोधन
1	Ordinance no. 45 DOCTOR OF PHILOSOPHY	<p>19(f) The viva-voce examination shall be conducted at the University Teaching Department/School of Studies in the subject or at any place fixed by the University for the purpose. The date, time and place of viva-voce examination shall be notified by the Registrar on the University Notice Board about a week in advance. At the time of viva-voce examination the board of examiners shall be provided with the reports of the examiners which shall be returned along with the report of viva-voce examination to the Registrar.</p> <p>(g) The candidate shall present the work embodied in the thesis before the board of examiners, members of faculty, research scholars and other interested persons. After the presentation of the research work the Board shall ask question together with those questions which have been given along with examiners reports. Others in the audience can also ask questions and the candidate shall reply only those questions which are permitted by the external examiner.</p>	<p>19(f) The viva-voce examination shall be conducted at the University Teaching Department/School of Studies in the subject or at any place fixed by the University for the purpose. The date, time and place of viva-voce examination shall be notified by the Registrar on the University Notice Board about a week in advance. At the time of viva-voce examination the board of examiners shall be provided with the reports of the examiners which shall be returned along with the report of viva-voce examination to the Registrar.</p> <p>(i) The University may conduct Ph.D. viva-voce examination through video conferencing using on-line platforms. The prior permission of Vice-chancellor will be essential to conduct on-line viva-voce examination. The external examiner in consultation with the internal examiner will forward the duly signed scanned copy of the report in prescribed proforma through email. The</p>

			<p>internal examiner and DRC Chairman will complete the formalities and submit the report along with the recording of Ph.D. viva-voce to the University.</p> <p>19(g) The candidate shall present the work embodied in the thesis before the board of examiners, members of faculty, research scholars and other interested persons. After the presentation of the research work the Board shall ask question together with those questions which have been given along with examiners reports. Others in the audience can also ask questions and the candidate shall reply only those questions which are permitted by the external examiner.</p>
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आदेशानुसार,



कुलसचिव

पृ.क्रमांक : 1359/अका./2021

रायपुर, दिनांक : 05/02/2021

प्रतिलिपि :-

01. माननीय राज्यपाल एवं कुलाधिपति महोदय के अवर सचिव, छत्तीसगढ़ राजभवन, रायपुर
02. सचिव, छत्तीसगढ़ शासन, उच्च शिक्षा विभाग, मंत्रालय, महानदी भवन, अटल नगर, नवा रायपुर
03. सचिव, छत्तीसगढ़ शासन, वित्त विभाग, मंत्रालय, महानदी भवन, अटल नगर, नवा रायपुर
04. आयुक्त, उच्च शिक्षा, ब्लॉक-सी-3, द्वितीय एवं तृतीय तल, इन्द्रावती भवन, अटल नगर, नवा रायपुर
05. अध्यक्ष, समस्त अध्ययनशाला/प्राचार्य, संबद्ध समस्त महाविद्यालय,
06. समस्त विभागीय अधिकारी,
07. कुलपति के सचिव/कुलसचिव के निजी सहायक,
पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर को सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित।



विशेष कर्तव्यस्थ अधिकारी (अका.)

3:41



पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर (छ.ग.)

अका. / 2011

रायपुर, दिनांक 27/05/2011

// अधिसूचना //

विश्वविद्यालय विद्यापरिषद् एवं कार्यपरिषद् की बैठक क्रमशः दिनांक 23.04.2011 एवं 29.04.2011 में निम्नांकित "विनियम" का अनुमोदन किया गया है।

विनियम क्र. 131

विभागीय शोध समिति (D.R.C.)
(E.C. Dated 29-04-2011)

The Academic Council in its meeting held on April 23, 2011 in Sir C.V. Raman Hall, Science Block at 2.30 p.m. approved the following modified version of the minutes of the Standing Committee meeting held on April 18 & 20, 2011 in the chamber of the Vice Chancellor.

The Committee has finalized the roles of DRC as outlined below:

1.	Constitution of DRC:	It will be constituted according to provisions of the Ordinance 45(2)
2.	Role and responsibility of DRC:	1. To prepare the list of eligible candidates. 2. To call all the eligible candidates (exempted category and those eligible through the written test for personal interview with prescribed proforma duly signed by the candidate and the proposed guide. 3. To provide all the eligible candidates with the list of guides along with available research seats with the guide, subject wise.

- Written test will be conducted by the University and admission of eligible candidates for subject concern will be finalized by the DRC of the concerned subject on the basis of interview.
- Admission of the eligible candidates for Ph.D. course/Registration will be decided on the basis of
 - mutual consent of the candidate and the guide as prescribed in the ordinance 45(4)
 - the performance of the candidate before the DRC committee.
- Reservation policy of the state government will be applicable for admission of students in Ph.D. program in each subject.
- Eligibility of the candidate passed in the Ph.D. Entrance Examination will remain valid for two consecutive academic sessions only.
- In case of any dispute, decision of the V.C. will be final.

आदेशानुसार,

कुलसचिव

पृ. क्रमांक : 3589/अका./2011

रायपुर, दिनांक 27/05/2011

प्रतिलिपि :-

- राज्यपाल के सचिव, छत्तीसगढ़ राजभवन, रायपुर (छ.ग.) ।
- सचिव, उच्च शिक्षा, छत्तीसगढ़ शासन, डी.के.एस. भवन, मंत्रालय, रायपुर (छ.ग.) ।
- आयुक्त, उच्च शिक्षा संचालनालय, शासकीय विज्ञान महाविद्यालय परिसर, रायपुर (छ.ग.) ।
- अध्यक्ष, समस्त अध्ययनशाला/समस्त विभागीय अधिकारी,
- वित्त नियंत्रक/प्रभारी अंकेक्षण, पं. रविशंकर शुक्ल वि.वि., रायपुर ।
- संचालक, महाविद्यालय विकास परिषद्/ अधिष्ठाता, छात्र कल्याण/ प्रभारी जनसंपर्क अधिकारी,
- कुलपति के सचिव/कुलसचिव के निजी सहायक, पं. रविशंकर शुक्ल वि.वि., रायपुर को सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित ।

उप कुलसचिव (अका.)



पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर (छ.ग.)

दूरभाष : 0771-2262802 (अका.) 0771-2262540 (कुलसचिव) फैक्स -0771-2262811,2262607

क्रमांक-2564 / अका./ शोध/2016


रायपुर, दिनांक 14. 10. 2016

- सूचना -

इस कार्यालय द्वारा जारी अधिसूचनाक्रमांक-2099/अका./शोध/2016, दिनांक 26.08.2016 के अनुक्रम में सूचित किया जाता है कि :-

- 1 पी-एच.डी. प्रवेश परीक्षा 24 सितंबर, 2016 में सम्मिलित हुए आवेदक परीक्षा परिणाम विश्वविद्यालय की वेबसाइट (www.prsu.ac.in) पर देख सकते हैं। तथा अपने परीक्षा केन्द्र से प्रमाण-पत्र प्राप्त कर सकते हैं।
- 2 प्रवेश परीक्षा में योग्य घोषित हुए आवेदक किसी भी मान्य शोध निर्देशक की सहमति प्राप्त कर रजिस्ट्रेशन फार्म शोध केन्द्र में दिनांक 25.10.2016 तक जमा कर सकते हैं। शोध केन्द्रों द्वारा रजिस्ट्रेशन फार्म स्वीकार करते समय यह ध्यान रखा जावे कि Ph.D. Eligibility Certificate की वैधता 2 वर्ष तक होती है, अतः उक्त अवधि के भीतर के ही आवेदक रजिस्ट्रेशन फार्म प्रस्तुत कर सकेंगे। शोध निर्देशकों की सूची तथा शोध केन्द्र की सूची विश्वविद्यालय की वेबसाइट पर उपलब्ध है।
- 3 आवेदकों द्वारा प्रस्तुत पी-एच.डी. रजिस्ट्रेशन फार्म पर विभागीय शोध समिति (DRC) द्वारा विचार किया जाएगा, तथा छत्तीसगढ़ शासन की आरक्षण नीति (शोध निर्देशक के अधीन कुल 06 सीट में अनुसूचित जाति-02, अनुसूचित जाति 01, अन्य पिछड़ा वर्ग-01 तथा अनाश्रित वर्ग-02 सीट) का पालन करते हुए शोध निर्देशकों का निर्धारण पारस्परिक सम्मति के आधार पर किया जाएगा। विभागीय शोध समिति की बैठक की सूचना अध्यक्ष, विभागीय शोध समिति द्वारा संबंधिता को उचित माध्यम से दी जाएगी।
- 4 विभागीय शोध समिति की अनुशंसा उपरांत आवेदक छात्र 07 दिवस के भीतर निर्धारित शुल्क जमा कर शोध केन्द्र में नियमानुसार प्रवेश प्राप्त कर सकेंगे।
- 5 समस्त शोध केन्द्रों द्वारा माह नवंबर, 2016 प्रथम सप्ताह (यथासंभव 01 नवंबर, 2016) से कोर्सवर्क का अध्यापन प्रारंभ किया जाना सुनिश्चित किया जाय।
- 6 अध्यक्ष/प्राचार्य, समस्त शोध केन्द्र द्वारा कोर्सवर्क की गतिविधियों की जानकारी तथा शोध आवेदकों की उपस्थिति की जानकारी प्रत्येक माह की अंतिम तिथि में उपकुलसचिव, अकादमिक विभाग, पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर को उपलब्ध कराया जावे।
- 7 ऐसे आवेदक जो कोर्स वर्क की परीक्षा दिनांक 30 अप्रैल 2016 में सम्मिलित होकर पत्र घोषित हुए हैं, उनके रजिस्ट्रेशन, विभागीय शोध समिति की अनुशंसा सहित उपकुलसचिव, अकादमिक विभाग को 25 अक्टूबर, 2016 तक उपलब्ध कराया जाय ताकि शोध उपाधि समिति के समक्ष विचारार्थ प्रस्तुत किया जा सके। ऐसे आवेदकों के शोध पत्रों के आवेदन फार्म के साथ - अकसूचियाँ, प्रवेश परीक्षा प्रमाणपत्र, कोर्सवर्क परीक्षा प्रमाणपत्र, शोध केन्द्र में जमा प्रवेश शुल्क की रसीद, शोध निर्देशक का एक प्रकाशित शोधपत्र तथा आवश्यकतानुसार जाति प्रमाणपत्र नियोक्ता का अनापत्ति प्रमाणपत्र संलग्न होने चाहिये।
- 8 संबंधित DRC द्वारा यह यह ध्यान रखा जावे कि Human Ethical Committee, Animal Ethical Committee, Human Rights, Environmental Protection से संबंधित विषयों में Synopsis संबंधित समिति की अनुमति उपरांत ही शोध उपाधि समिति RDC के समक्ष प्रस्तुत किया जाय।

अदेशानुसार


उपकुलसचिव

2565
पुनः क्रमांक- / अका./ शोध/2016
प्रतिलिपि -

रायपुर, दिनांक 14 अक्टूबर 2016

- 1 अध्यक्ष, समस्त अध्ययनशाला (शोध केन्द्र) पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर को उपरोक्तानुसार आवश्यक कार्यवाई हेतु प्रेषित।
- 2 प्राचार्य समस्त महाविद्यालय एवं समस्त शोध केन्द्र को आवश्यक कार्यवाई हेतु अर्पणित।
- 3 प्रभारी कम्प्यूटर साईंस अध्ययन शाला को इस निवेदन के साथ कि यह सूचना विश्वविद्यालय की वेबसाइट पर अपलोड करने की कृपया व्यवस्था करें।
- 4 अधिष्ठाता, छात्र कल्याण, पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर। समस्त समाचार पत्रों में प्रकाशन हेतु।
- 5 कुलपति के सचिव/कुलसचिव के निजी सहायक, पं. र. शु. वि. रायपुर को सूचनाार्थ।


उपकुलसचिव (अका.)


14.10.16



पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर (छ.ग.)

दूरभाष : 0771-2262802 (अकादमिक विभाग), 0771-2262540 (कुलसचिव कार्यालय)

क्रमांक : 2785/अका./शोध/2015

रायपुर, दिनांक : 16/02/2015

॥ अधिसूचना ॥

विश्वविद्यालय विद्यापरिषद् की स्थायी समिति की बैठक दिनांक 09.02.2015 में शोध छात्रों द्वारा शोध सारांश अथवा शोध प्रबंध जमा करने के पूर्व निम्नानुसार अधिसूचित जर्नल में शोध पत्र का प्रकाशन को मान्य किया गया है -

To enhance the quality of research, our university is in the process of redefining and revising the guidelines for "Standard Research Journals. In the recently [January 7, 2014] held meeting of Deans chaired by Kulpati, Pt.RSU following norms have been proposed for rating "Standard Journal":

1. The journal referred in the list of SCI [Science Citation Index]/SSCI [Social Science Citation Index] /A&HCI [Arts & Humanities Citation Index] of Thomson Reuters
2. National Academy Journals
3. All research journals published by Govt. of India or Govt. aided agencies
4. All subject based society journals with at least 20 years of standing with regular publications
5. List of all the research journals approved by other universities recognized by UGC
6. Journal of Pt. Ravishankar Shukla University

क्रमांक 1 पर उल्लेखित जर्नल्स की सूची विश्वविद्यालय की वेबसाईट www.prsu.ac.in पर उपलब्ध है।

आदेशानुसार,

कुलसचिव

पृ. क्रमांक : 2786/अका./शोध/2015
प्रतिलिपि :

रायपुर, दिनांक : 16/02/2015

1. अध्यक्ष, समस्त अध्ययनशाला,
2. प्राचार्य, समस्त सम्बद्ध महाविद्यालय,
कृपया समस्त शोध निर्देशकों एवं शोध छात्रों को आवश्यक रूप से अवगत करावें।
3. अध्यक्ष, समस्त संकाय/समस्त अध्ययन मण्डल,
4. संचालक, महाविद्यालय विकास परिषद्/अधिष्ठाता, छात्र कल्याण,
5. समस्त विभागीय अधिकारी,
6. कुलपति के सचिव/कुलसचिव के निजी सहायक,
पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर को सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित।

उप कुलसचिव (अका.)

N/GOSWAMI
16.2.15



3
पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर (छ.ग.)

दूरगाप : 0771-2262302 (अकादमिक विभाग), 0771-2262540 (कुलसचिव कार्यालय)

क्रमांक : 2783/अका./शोध/2015

रायपुर, दिनांक : 16/02/2015

॥ अधिसूचना ॥

शोध छात्रों द्वारा शोध रूपरेखा एवं शोध प्रबंध, मूल्यांकन हेतु प्रस्तुत करने के पूर्व Plagiarism की जाँच के संबंध में सुझाव एवं अभिमत के लिए गठित समिति की अनुशंसा (आंशिक संशोधन के साथ) को विद्यापरिषद् की स्थायी समिति की बैठक दिनांक 09.02.2015 में अनुमोदन किया गया है। तदनुसार दिशा-निर्देश आगामी कार्यवाही हेतु अधिसूचित किया जाता है :-

Guidelines for Plagiarism Check

1. A Plagiarism Check using either Turnitin or iThenticate software is mandatory prior to the submission of synopsis and the thesis.
2. The following criteria of exclusion will be followed while generating the Plagiarism Report:
 - a) Quotes
 - b) Bibliography
 - c) Phrases
 - d) Small matches up to 10 words
 - e) Small similarity less than 1%
 - f) Mathematical Formula
 - g) Name of Institutions, Departments etc.
3. If the student has published paper(s) that has/have been included in the thesis should be excluded while checking for Plagiarism.
4. Published Paper will also be checked for plagiarism. If any part of the paper is detected under plagiarism has similarity with the text also included in the thesis will be referred as plagiarism in the thesis.
5. The final Plagiarism report will be issued by the Library and will be forwarded to the Chairman of the DRC of the respective subject.
6. The Plagiarism Verification Report, following its validation by the Chairman of the DRC of the respective subject, will be appended by the student in his/her thesis.
7. The student must use following fonts while typesetting the synopsis and the thesis: (a) For English (Times New Roman/ Arial); (b) For Hindi (Kruti Dev 010/ 011).

आदेशानुसार,

कुलसचिव

रायपुर, दिनांक : 16/02/2015

पं. क्रमांक : 2784/अका./शोध/2015
प्रतिलिपि :

1. अध्यक्ष, समस्त अध्ययनशाला,
2. प्राचार्य, समस्त सम्वद्ध महाविद्यालय,
कृपया समस्त शोध निर्देशकों एवं शोध छात्रों को आवश्यक रूप से अवगत करावें।
3. ग्रंथपाल, पं. सुंदर लाल शर्मा ग्रंथागार, पं.र.शु.वि.वि. रायपुर,
4. अध्यक्ष, समस्त संकाय/समस्त अध्ययन मण्डल,
5. संचालक, महाविद्यालय विकास परिषद्/अधिष्ठाता, छात्र कल्याण,
6. समस्त विभागीय अधिकारी,
7. कुलपति के सचिव/कुलसचिव के निजी सहायक,
पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर को सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रप्रेषित।

उप कुलसचिव (अका.)

W. Goswami
16.2.15