

Pt Ravishankar Shukla University, Raipur (C.G.)

Ordinance No. 178

M.Tech. In Optoelectronics & Laser Technology

1. This ordinance comes into force with immediate effect.

2. The Post Graduate interdisciplinary course in Technology between B.O.S, in Electronics and S.O.S in Physics under the Faculty of Science leading to the Degree of Masters of Technology in Optoelectronics and laser Technology of the Pt Ravishankar Shukla University shall be divided into four semesters. Each semester would be approximately of six months duration including vacation/preparatory leave/examination/industrial training etc.

3. The Degree of Master of Technology in Optoelectronics and Laser Technology shall be abbreviated as M.Tech in Optoelectronics & Laser Technology.

4. The medium of instruction and examination shall be English.

5 Total Seats: The total number of seats shall not exceed Twenty two (Two for sponsored candidates).Reservation of seats shall be as per University rules.

6. **ELIGIBILITY CONDITIONS:** Candidates satisfying the following criteria will be considered eligible for admission to the first semester of M. Tech in Optoelectronics and laser Technology and may be called for interview for final selection:

I. A person will be eligible for admission if he/she holds M.Sc (Electronics/ Electronic Science/ Physics/ Applied Physics) or B.Tech or B.E. or equivalent degree examinations approved by the AICTE e.g. AMIE or AMIETE in Electronics and Tele communication Engg. or Electronics Engg. Or Electrical Engg. from any recognized University or institution with least 55% marks or CGPA of 6.25 on a 10-point scale, and valid Gate Score in Physics, Electronics or Electrical Engg. ...

Relaxation of 5% from 55% to 50% of the marks in the eligibility criteria may be permitted to SC/ST candidates. (C.G. 18.6.90 notified. 10022/-/94-95, 16.02.95)

II. If seats remain vacant due to non-availability of GATE qualified candidates, the same will be filled up from the candidates possessing qualification as indicated above on the basis of the entrance test to be conducted by the University.

[Handwritten signatures and initials]

III. No candidate will be admitted, if GATE Percentile is lower than the following minimum prescribed:

For General Category Candidates: 75 percentile

For SC/ST/PH candidates: 50 percentile

iv. Additional Requirements for Sponsored candidates

In addition to above, sponsored candidates working in Public Sector Undertakings or Government Departments or Research/Development Organizations or Private Industries (approved by University) should have a minimum experience of one year as on 1st August, 2008. (Sponsored candidates are not required to possess GATE score).

Sponsored Candidates (Full-time) are required to submit at the time of interview a "Sponsorship Certificate" from their employers, on proper Letter Head, stating that for the period of his/her studies at the Institute the candidate would be treated as on duty with usual salary and allowances and that he/she will be fully relieved for the period of study for pursuing his/her studies and further that the fee of the candidate will be paid by the sponsoring organization.

7. (a) There shall be an M.Tech committee constituted by Vice Chancellor comprising of teachers of the S.O.S. of Physics and Electronics as may be associated with the course /research programs. An external expert may also co opt to this committee at the discretion of the Vice Chancellor. The head of the Department of nodal department shall be the Chairman of the committee.

(b) The M.Tech. Committee shall perform the following functions-

(i) To recommend the name of the students for admission to the M.Tech course.

(ii) To draw the syllabus for the M.Tech course for the consideration of the board of studies of the Department of Physics and Electronics

(iii) To recommend name of supervise of M.Tech candidates and to assign topic for project/Dissertation work

(iv) To Plan and Organize seminars, group discussion etc.

(v) To propose name of internal examiner for evaluation of seminars.

(vi) To propose a panel of three examiners for each course/ Dissertation for the consideration of the Examination Committee.

(vii) Any other function assigned to it by the Vice Chancellor.

Abmal

[Signature]

[Signature]

[Signature]

[Signature]

[Signature]

[Signature]

8. (a) An application for the admission to the M.Tech. course shall be made on a prescribed form to the head of the Teaching Department on payment of the prescribed fee, by the 1st July every year.

(b) Admission to the course shall be made subject to the approval of the M.Tech. Committee.

9. Examinations:

There shall be following four Semester Examinations in the course. Minimum pass marks for each subject in each semester shall be as under: - a) Each written Theory Paper – 40 % of the total marks allotted to that paper. b) Each Practical Examination - 50 % of the total marks allotted to practicals

Semester I Examination: On completion of the course of study for the period prescribed therein in November/December of first year of the course.

A student will be promoted to the second semester provided he/she has not failed in more than two theory papers and has obtained not less than 48% marks in the aggregate of theory and practicals taken together.

The student will have to essentially repeat (ER) and pass in those papers in which he/she has failed. However, the student has to appear in the carried over papers only along with the regular students of the respective semesters in the course of reading which is prescribed for the fresh students, i.e., odd semester papers in odd semesters (I/III) and even semester papers in even semesters (II/IV).

Semester II Examination: On completion of the course of study for the period prescribed therein in April/May of the first year of the course.

A student will be promoted to the third Semester provided he/she has not failed in more than a total of two theory papers, inclusive of Semester I and Semester II, and has obtained not less than 48% marks in the aggregate of theory and practicals taken together in the Semester II examination. The student cannot carry over more than two papers for essential repeat at any stage.

Semester III Examination: On completion of the course of study for the period prescribed therein in November/December of the second year of the course.

A student will be promoted to the fourth Semester provided he/she has not failed in more than a total of two theory papers, inclusive of Semester I, Semester II, and has obtained not less than 48% marks in the aggregate of dissertation(Phase-I) and project taken together in the Semester III examination. The student cannot carry over more than two papers for essential repeat at any stage.

Semester IV Examination: Students will be required to work on the Dissertation (major project) from January-July in Semester IV. The project can be carried out either completely in the Department or in collaboration with some Industry or an R & D Organization. In the later case, collaboration is to be established by the individual Comprehensive Viva Voce will be held at the end of the fourth semester in the last week of July. The minimum marks required to pass the

[Handwritten signatures and initials]
3

fourth Semester shall be 48% in project. A candidate, who fails in the Semester IV Examination, will be required to repeat the dissertation. However, he/she may be allowed to complete it in next six months. Such a candidate will be examined in January of that year. There will be no scope for improvement or revaluation. If the candidates fail to submit dissertation within the prescribed date, he/she will be allowed to submit dissertation in next six months.

No candidate shall be permitted to carryout a dissertation (Phase-II) preferably in an industry or a professional R & D organization and to submit thesis unless he/she has passed all the preceding semester.

A student can appear in any theory paper only twice, i.e., once in the original attempt and once in a repeat attempt. A candidate who fails in the I, II or III Semester Examination will be required to repeat that part of the course as a regular student only. There will be no provision of an ex-student

10. (a) The M.Tech Examination shall follow the following pattern :

Semester I

Course Code	Subject	Marks
OE-11	Theory Paper -I	100
OE-12	Theory Paper -II	100
OE-13	Theory Paper -III	100
OE-14	Theory Paper -IV	100
OE-15	Seminar	50
OE-16	Comprehensive Viva voce	Grade
OE-17	Lab Course-I	150

Semester II

Course Code	Subject	Marks
OE-21	Theory Paper -I	100
OE-22	Theory Paper -II	100
OE-23	Theory Paper -III	100
OE-24	Theory Paper -IV	100
OE-25	Seminar	50
OE-26	Comprehensive Viva voce	Grade

Handwritten signatures and initials on the left margin, including 'B. Malhotra' and 'R.S.'.

Handwritten signatures and initials at the bottom of the page, including 'Ramesh', 'Ravi', 'Bhat', 'Jaw', 'VVS', and 'R.S.'.

OE-27	Fiber Optics and Optical Communication Lab-II	150
-------	---	-----

Semester III

Course Code	Subject	Marks
OE-31	Minor Project and Industrial Training	150
OE-32	Dissertation (Phase-I) and Seminar on Dissertation	150 + 50

Semester IV

Course Code	Subject	Marks
OE-41	Dissertation (Phase-II), Comprehensive Viva-Voce	450

Gross Total All Semesters = 2000

11. (a) The assessment of the Seminars shall be done by the internal examiners. There will be seminar in the practical, whenever applicable. The assessment of the practical records, carrying 15 marks shall be done at the time of annual examination jointly by the internal and external examiners.
- (b) The result will be computed by combining the marks of the various courses and the dissertation.
- (c) In the case of a student who repeats one or more theory papers, the marks obtained by him/ her in theory, practical and seminars will be carried over for determining the result
12. A candidate will be required to submit three typed copies of his/ her dissertation three weeks from commencement of theory examination. . The dissertation and viva-voce shall be evaluated by an external examiner.
13. The evaluation of the seminar on the dissertation (Phase-I) will be done internally by the supervisor and at least one teacher connected with the course.
- (a) In order to pass the M.Tech. Examination, a candidate will be required to obtain a minimum of 48% of marks of aggregate of theory papers, practical, seminars and dissertation separately.

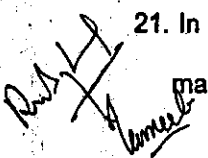
[Handwritten signatures]

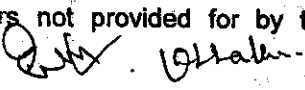
[Handwritten signatures]

[Handwritten signature]

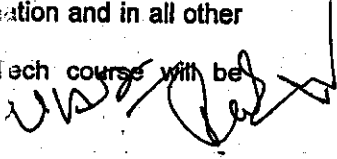
- 6
14. A candidate of the M.Tech degree shall not be permitted to join any other course of study or to appear at any other examination conducted by a university or any other agency, except a language diploma/ certificate course run by the University.
15. Division shall be awarded in the Final semester examination based on integrated performance of the candidate for all the semester examinations in the following manner: -
- a) First Division with Distinction – 75% and above
 - b) First Division – 60% and above
 - c) Second Division – Below 60%
- Provided the candidate has secured the minimum pass marks as specified in this ordinance.
16. The Vice-Chancellor shall award one grace marks to the candidate who is either failing or missing the division by one mark. However, it will not be added anywhere.
17. Attendance: In the case of I and II semester examination, no candidate shall be deemed to have pursued a regular course of study unless one has attended at least three fourths (75%) of the total lectures delivered/classes held in the theory papers and practical papers taken separately. In case of the Semester III and IV examination, no candidate shall be allowed to appear at the same unless the supervisor guiding the candidate for the Dissertation work has reported that he/she is satisfied about the project work provided that such reports both from the supervisor and organization shall be to the satisfaction of the M.Tech Committee.
18. The nodal department should act as a Resource Centre and disseminate the programmes developed by it to nearby universities/colleges/institutes.
19. Rate of remuneration payable the examiners of M.Tech examination shall be as prescribed in the General Examination Ordinance.
20. The fee shall be as per approval of executive Council and shall be as applicable from time to time. Presently an M.Tech candidate shall be required to pay the following fees:
- (i) Tuition Fee - Rs. 10000.00
 - (ii) University examination fees, eligibility, enrollment fees etc and deposits shall be as prescribed by the University from time to time
21. In matters of admission, enrolment, attendance, examination and in all other matters not provided for by this ordinance, the M.Tech course will be

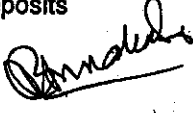












7
governed by the general provisions of the relevant University ordinance unless otherwise specified in this ordinance.

22. In order to ensure uniformity of standards, the M.Tech. committee, when performing their function under para 4(b)(ii) may liaison with such committees in other Universities, so that the topics and standards of course prescribed under para 7(a) are not very dissimilar especially where the same specialization have been selected by two or more Universities.

23. The Executive Council shall be the competent authority to decide the matters not covered in this ordinance.

Handwritten signatures and initials:
UNZ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____
_____ _____ _____ _____ _____
_____ _____ _____ _____ _____