



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

दूरभाष : 0771-2262802 (अकादमिक), 0771-2262540 (कुलसचिव), E-mail ID- academicprsu3@gmail.com

क्रमांक : 3949 / अका. / 2024

रायपुर, दिनांक : 01 / 08 / 2024

॥ अधिसूचना ॥

विश्वविद्यालय कार्यपरिषद् की बैठक दिनांक 18.02.2024 के अध्यक्ष के अनुमति से अन्य निर्णय क्रमांक 4 एवं छत्तीसगढ़ शासन, उच्च शिक्षा विभाग, मंत्रालय, महानदी भवन, नवा रायपुर अटल नगर, रायपुर से प्राप्त पत्र क्रमांक एफ 3-32/2024/38-2 दिनांक 22.07.2024 के अनुक्रम में नवीन Ordinance No. 178 - "M.Tech. in Opto Electronics & laser Technology" माननीय कुलाधिपति महोदय द्वारा अनुमोदित को अंगीकृत किए जाने का निर्णय लिया गया, जो निम्नांकित है -

Ordinance No- 178

M.Tech. in Opto Electronics & laser Technology

(E.C. under 18-02-2024)

वि.वि. अध्यादेश क्रमांक	वर्तमान प्रावधान	प्रस्तावित संशोधन
178 2	2. The Post Graduate interdisciplinary course in Technology between S.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	2. The Post Graduate interdisciplinary course in Technology between S.O.S in Electronics & Photonics and S.O.S.in Physics & Astrophysics 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
178 6 6 (I)	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: 6(I) 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:	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: 6(I) 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

<p>6 (IV)</p>	<p>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.</p> <p>IV. Additional Requirements for Sponsored candidate</p> <p>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</p>	<p>for interview for final selection:</p> <p>A person will be eligible for admission if he/she holds Master's Degree in Physics / Electronics / Photonics / Material Science / Applied Physics / Nanotechnology or Allied Subject or B.Sc. Engineering/ B.Tech / BE Degree in / Electronics & Telecommunication Engineering / Electronics & Communication Engineering/ Electronics Engineering / Electronics & Instrumentation Engineering Electrical Engineering / Electrical and Electronics or Telecom Engineering / Instrumentation / IT / Computer Science Engineering from any recognized University or institution with least 55% marks and valid Gate Score</p> <p>OR</p> <p>A candidate who has passed A and B section of Institution of Engineers (India) Calcutta examination or I.E.T.E. Graduate examination conducted by the Institution of Electronics & Telecommunication Engineers, New Delhi with at least 50% marks after having passed the Diploma examination with a valid GATE score may be admitted to M. Tech programme of the University.</p> <p>Deleted from Ordinance</p>
---------------	---	---

	<p>required to possess GATE score).</p> <p>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.</p>	
178 7(a)	<p>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.</p>	<p>7(a) There shall be an M.Tech committee constituted by Vice Chancellor comprising of teachers of the S.O.S in Electronics & Photonics and S.O.S.in Physics & Astrophysics 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.</p>
178 8(a)	<p>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.</p> <p>(b) Admission to the course shall be made subject to the approval of the M.Tech. Committee.</p>	Deleted from Ordinance
178 9	<p>9. Examinations:</p> <p>There shall be following four Semester Examinations in the course. Minimum pass marks for</p>	<p>8. Examinations:</p> <p>8.1 The Master of Technology degree shall be awarded to those</p>

<p>each subject in each semester shall be as under: -</p> <p>a) Each written Theory Paper-40 % of the total marks allotted to that paper.</p> <p>b) Each Practical Examination - 50 % of the total marks allotted to practicals</p> <p>Semester I Examination:</p> <p>On completion of the course of study for the period prescribed therein in November/December of first year of the course.</p> <p>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.</p> <p>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).</p> <p>Semester II Examination:</p> <p>On completion of the course of study for the period prescribed therein in April/May of the first year of the course.</p> <p>A student will be promoted to the third Semester provided he/she has</p>	<p>candidates who have obtained at least 36% marks in cumulative aggregate in theory and practical courses separately and a minimum of 20% qualifying marks in each theory course in Semester I and II and a minimum of 50 % qualifying marks in each Project in Semester III & IV.</p> <p>8.2 Candidates failing to appear or securing less than 36% aggregate or obtaining less than 20% marks in any of the theory course of semester examinations shall be allowed to pursue the courses for the next following semester and to appear at the examination in the course for that semester and any course of the previous semester, which he/she has not cleared.</p> <p>Failure in all the four papers, shall have to re-appear in the same papers. A.T.K.T. provision shall be in three papers of one semester & maximum three attempts only i.e. (1 main + 2 A.T.K.T.). Failure to secure 36% aggregate or to obtain qualifying marks of 20% in each course in two successive semester examinations, in addition to main examination for Semester I & II, shall if so facto disqualify a candidate for admission to the next higher semester or for re-examination.</p> <p>8.3 A student can appear any theory paper only thrice i.e., once in the original attempt and twice in a repeat attempt.</p> <p>8.4 The project can be carried out</p>
--	---

<p>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.</p> <p>Semester III Examination:</p> <p>On completion of the course of study for the period prescribed therein in November/December of the second year of the course.</p> <p>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.</p> <p>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.</p>	<p>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.</p> <p>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 next year. There will be no scope for improvement or reevaluation. If the candidates fail to submit dissertation within the prescribed date, he/she will be allowed to submit dissertation in next six months.</p> <p>No candidate shall be permitted to carry out 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.</p> <p>8.5 USE OF CALCULATORS: The students of M.Tech. classes will be permitted to use non programmable scientific calculators in the Examination Hall.</p>
---	--

	<p>The minimum marks required to pass the 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.</p> <p>No candidate shall be permitted to carry out 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.</p> <p>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</p>													
<p>178 10</p>	<p>10. (a) The M. Tech Examination shall follow the following pattern:</p> <p>Semester I</p> <table border="1" data-bbox="404 1647 812 1902"> <thead> <tr> <th>Cours e Code</th> <th>Subject</th> <th>Mark s</th> </tr> </thead> <tbody> <tr> <td>OE-11</td> <td>Theory Paper-I</td> <td>100</td> </tr> <tr> <td>OE-12</td> <td>Theory Paper-II</td> <td>100</td> </tr> <tr> <td>OE-</td> <td>Theory Paper-</td> <td>100</td> </tr> </tbody> </table>	Cours e Code	Subject	Mark s	OE-11	Theory Paper-I	100	OE-12	Theory Paper-II	100	OE-	Theory Paper-	100	<p>Deleted from Ordinance</p>
Cours e Code	Subject	Mark s												
OE-11	Theory Paper-I	100												
OE-12	Theory Paper-II	100												
OE-	Theory Paper-	100												

4

	13	III		
	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	Mark s	
	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	
	OE-27	Lab Course- II	150	
	Semester III			
	Course Code	Subject	Mark s	
	OE - 31	Minor Project and Industrial Training	150	
	OE - 32	Dissertation (Phase-I) and Seminar on Dissertation	150 + 50	
	Semester IV			
	Course Code	Subject	Mark s	
	OE - 41	Minor Project and Industrial Training	450	
	Gross Total All Semester = 2000			
178 11	11. (a) The assessment of the Seminars shall be done by the internal examiners. There will be seminar in the practical, whenever			Deleted from Ordinance

	<p>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.</p> <p>(b) The result will be computed by combining the marks of the various courses and the dissertation.</p> <p>(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</p>	
178 12	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.	Deleted from Ordinance
178 13	<p>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.</p> <p>(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.</p>	Deleted from Ordinance
178 14	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.	Deleted from Ordinance



<p>178 15</p>	<p>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-</p> <p>a) First Division with Distinction -75% and above b) First Division - 60% and above c) Second Division - Below 60%</p> <p>Provided the candidate has secured the minimum pass marks as specified in this ordinance.</p>	<p>9. 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-</p> <p>a. First Division with Distinction - 75% and above b. First Division - 60% and above c. Second Division - Below 60%</p> <p>Provided the candidate has secured the minimum pass marks as specified in this ordinance.</p>
<p>178 16</p>	<p>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</p>	<p>10. 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</p>
<p>178 (17-21)</p>	<p>Clauses 17 to 21</p>	<p>Deleted from Ordinance</p>
<p>178 22</p>	<p>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.</p>	<p>11. In order to ensure uniformity of standards, the M.Tech , committee, when performing their function under para 7(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.</p>
	<p>23. The Executive Council shall be the competent authority to decide the matters not covered in this ordinance,</p>	<p>12. The Executive Council shall be the competent authority to decide the matters not covered in this ordinance.</p>

आदेशानुसार,


S. Patel
31/7/22
कुलसचिव

पृ. क्रमांक : 3950/अका./2024

रायपुर, दिनांक : 01/07/2024

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।


उप-कुलसचिव (अका.)

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

Ordinance No. 178 (Revised)

M.Tech. In Optoelectronics & Laser Technology

[EC dt.-18-02-2024 and Higher Education C.G. Govt. Letter No. F 3-32/2024/38-2 Dt. 22-07-2024]

1. This ordinance comes into force with immediate effect.
2. The Post Graduate interdisciplinary course in Technology between S.o.S in Electronics & Photonics and S.O.S.in Physics & Astrophysics 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:

A person will be eligible for admission if he/she holds Master's Degree in Physics / Electronics / Photonics / Material Science / Applied Physics / Nanotechnology or Allied Subject or B.Sc. Engineering/ B.Tech / BE Degree in Electronics Engineering / Electronics & Telecommunication Engineering / Electronics & Communication Engineering / Electronics & Instrumentation Engineering / Electrical Engineering / Electrical and Electronics or Telecom Engineering / Instrumentation / IT / Computer Science Engineering from any recognized University or institution with least 55% marks and valid Gate Score.

OR

A candidate who has passed A and B section of Institution of Engineers (India) Calcutta examination or I.E.T.E. Graduate examination conducted by the Institution of Electronics & Telecommunication Engineers, New Delhi with at least 50% marks after having passed the Diploma examination with a valid GATE score may be admitted to M. Tech Programme of the University.

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, 16.02.05)

- I. 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.

II. 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

7. (a) There shall be an M.Tech committee constituted by Vice Chancellor comprising of teachers of the **S.O.S in Electronics & Photonics and S.O.S.in Physics & Astrophysics** 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 supervisor 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.

8. Examinations:

8.1 The Master of Technology degree shall be awarded to those candidates who have obtained at least 36% marks in cumulative aggregate in theory and practical courses separately and a minimum of 20% qualifying marks in each theory course in Semester I and II and a minimum of 50 % qualifying marks in each Project in Semester III & IV.

8.2 Candidates failing to appear or securing less than 36% aggregate or obtaining less than 20% marks in any of the theory course of semester examinations shall be allowed to pursue the courses for the next following semester and to appear at the examination in the course for that semester and any course of the previous semester, which he/she has not cleared. Failure in all the four papers, shall have to re-appear in the same papers. A.T.K.T. provision shall be in three papers of one semester & maximum three attempts only i.e. (1 main + 2 A.T.K.T.). Failure to secure 36% aggregate or to obtain qualifying marks of 20% in each course in two successive semester examinations, in addition to main examination for Semester I & II, shall if so facto disqualify a candidate for admission to the next higher semester or for re-examination.

8.3 A student can appear any theory paper only thrice i.e., once in the original attempt and twice in a repeat attempt.

8.4 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. 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 next 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 carry out 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.

8.5 USE OF CALCULATORS: The students of M.Tech. classes will be permitted to use non programmable scientific calculators in the Examination Hall.

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.

9. 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.

10. 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.
11. In order to ensure uniformity of standards, the M.Tech , committee, when performing their function under para 7(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.
12. The Executive Council shall be the competent authority to decide the matters not covered in this ordinance.