ORDINANCES & REGULATIONS

for

- ➢ Master of Technology (M.Tech.) /
- ➢ Master of Science (M.Sc.)

Indian Institute of Technology Mandi, Himachal Pradesh, India

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ORDINANCES

REGULATIONS

ORDINANCES
M.Tech./M.Sc. program

O.1   Name of the Degree Program
- o Master of Technology
- o Master of Science

With Suffix, if any
- o in ..... (name of the discipline) OR
- o in…(name of the discipline) with major or minor in ….(name of the specialization)

Example: Master of Technology in Energy Engineering with major in Materials

 Master of Science in Chemistry with minor/specialization in Physical Chemistry

O.2   Abbreviation

Master of Technology is abbreviated as M.Tech.

Master of Science is abbreviated as M.Sc.

O.3   Duration

The minimum and maximum duration of these programs are two and three years respectively. Each year consists of two semesters, summer and winter terms. The structure and details of the curriculum for these programs are given separately.

O.4   Credits to be Earned

The students have to earn minimum of 70 -72 credits and 80-82 credits for the degree of Master of Technology and Master of Science respectively.

O.5   Credit Distribution
- o Credits should be evenly distributed in across semesters to the extent possible
- o Research component should be at least of 10 credits with an upper limit of 25 credits for Master of Science and at least of 25 credits with an upper limit of 35 credits for Master of Technology programs.
- o Open electives from outside the discipline of program should be at least of 6 credits for both Master of Science and Master of Technology programs.

O.6   Eligibility
- o **Master of Science:** Candidates who have qualified for the award of a three/four year B.Sc. degree (after 10 + 2 or equivalent schooling) from a recognized University or Institute in an appropriate discipline are eligible to apply for admission to the M.Sc. program. Exact eligibility criteria will be as prescribed in the regulations approved by the senate of the institute from time to time and announced by the institute for admission in each year. The admission of the candidate is subject to approval by the Chairman, Senate and this shall be reported to the Senate.

- **Master of Technology:** Candidates who have qualified for the award of Bachelor's degree in Engineering/Technology from a recognized University or Institute in an appropriate discipline are eligible to apply for admission to the M.Tech. program. Candidates with M.Sc. degree from a recognized University or Institute in an appropriate discipline may also be eligible to apply for admission to the M.Tech. program. Exact eligibility criteria will be as prescribed in the regulations and approved by the senate of the Institute from time to time and announced by the Institute for admission in each year. The admission of the candidate is subject to approval by the Chairman, senate and this shall be reported to the senate.

O.7   Number of Seats
- The number of seats shall be as approved by the Senate with reservations as per Institute norms.

O.8   Assistantship (Fellowship/Scholarship)
- The award of assistantship shall be in accordance with prevailing norms of the Institute.

O.9   Award of Degree
- Award of the M. Tech. / M.Sc. degree shall be in accordance with the regulation of the Senate in relation to the requirements of the given program.

O.10   Academic Events
- The dates of academic events scheduled during the academic session shall be specified in the academic calendar.

O.11   Campus Stay
- Students admitted to these degree programs are required to stay in campus and to participate and complete all requirements of the program.

O.12   Exception
- Any exception to above clauses will require approval of the Senate or by the Chairman, Senate.

REGULATIONS
M.Tech./M.Sc. Program

R.1 Categories of Admission

    a) Candidates will be admitted to the M.Tech. program of the Institute under one of the following categories:

      i) **Regular full-time** students with HTRA assistantship.

      iii) **Regular full-time** students without HTRA assistantship

      iii) **Full time sponsored** students by the Industries**,** established Institutes/R&D Organizations/National laboratories without HTRA assistantship

    b) For M.Sc. program, there shall be one type of student i.e., regular full time student.

R.2 Eligibility for Admission

R.2.1 The minimum educational qualifications for admission to the **M.Tech. programs** are as follows:

a) Candidates who have qualified for the award of Bachelor's degree in Engineering / Technology or Master's Degree in Science or Master's Degree in Computer Application and who have qualified and have a valid score in Graduate Aptitude Test in Engineering (GATE) are eligible to apply for admission to the M.Tech. programs.

b) For all B.Techs from IITs graduated with a CGPA of 8.0 or above, the requirement of GATE qualification is waived off.

c) Candidates who have qualified for the award of Bachelor's degree in Engineering / Technology or Master's degree in Science through distance education/ correspondence mode and having valid GATE score are also eligible to apply for admission to the M.Tech. program.

d) A student sponsored by a recognized R&D organization, academic institution, government organization or industry are eligible to apply for M.Tech. program on a full-time basis. The Institute does not provide any assistantship to such students.

e) A candidate with Associate Membership of Professional Bodies equivalent to B.Tech., as approved by the Senate and having valid GATE score shall also be eligible to apply for admission to the M.Tech. program with assistantship, subject to regulations approved by the Senate.

R.2.2 The minimum educational qualifications for admission to the **M.Sc. programs** are as follows:

Three/four year B.Sc. degree in appropriate discipline(s) or equivalent. The detailed educational requirements for each M.Sc. degree program must be individually approved by the Senate.

R. 3 Selection for Admission

For admission to M.Tech/M.Sc. program under regular/sponsored category, the concerned School shall adopt qualifying criteria for preparing a merit list of selected candidates for all the categories.

(As modified vide Notification No. **IIT Mandi/Academics/Senate/2020/13748-52 dated 6th July, 2020** https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Academics/Senate/2020/13748-52)

R.4   Registration & Enrollment

The enrollment for the first semester will take effect after the payment of prescribed fees (comment: first semester there may not be any dues). From the second semester onwards, all the students have to enroll on the first day of the beginning of the semester as per the Institute guidelines or as per the dates decided by the Institute. The student will become eligible for enrollment only if he/she satisfies **R.13.0** and in addition he/she has cleared all dues to the Institute, Hostel and the Library up to the end of the previous semester, provided he/she is not debarred from enrollment by the Institute on disciplinary grounds. If the student fails to register during the specified period, the student has to pay the fine as per Institute norms.

The students also have to do thesis registration for the required number of credits (as described in the curriculum) every semester. If the student fails to register during the specified period, the student has to pay the fine as specified in the Institute norms.

R.5 Course Coordinator/Course Interest Groups

A course coordinator will be appointed for each M.Tech./M.Sc. program by the Chairman, Senate on recommendation of Dean (Academics). A Course Interest Group (CIG) may also be formed consisting of faculty members who have taught courses for the particular program in the past, doing so currently, or scheduled to do so in the immediate future. The rules regarding the formation of the course interest group and also the responsibilities of the course coordinators or course interest group shall be as approved by the Senate.

R6. Faculty Adviser

To help students in planning their courses of study and for getting general advice on the academic program, the Dean (Academics) shall appoint a faculty member as a Faculty Advisor for each group of students.

R.7 Class Committee

The execution of the courses offered under the M.Tech./M.Sc. program will be monitored by the class committee constituted by Associate Dean (Courses).

R.8 Duration of the Program

The minimum and maximum durations for both the programs are of two and three years respectively. However, Half-teaching Research Assistantship (HTRA) duration (in the case of M.Tech. students) will be governed as per Institute norms.

R.9 Assessment Procedures

R.9.1   Letter Grades : Letter grades will be used in evaluation of performance of students in all academic activities for which he/she has registered in a semester for a degree program.

R.9.2 Definitions : The definitions of credit, grade, Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) for these programs will be same as that of B.Tech Program.

R.9.3 Performance Evaluation : Courses: The assessment of lecture and/or tutorial based courses shall be continuous. Two quizzes may be conducted during the semester besides an end semester final examination. In addition, a combination of assignments, projects, in class quizzes, seminars, class presentations and other tasks may be used for training and assessing the students. The assessment scheme shall be announced in the class by the teacher at the beginning of the semester and this shall be confirmed during the first class committee meeting.

R.9.4   Project/Thesis work: A continuous evaluation process will be followed to evaluate the project/thesis work progress to award letter grades for the credits assigned to project/thesis component. The assessment should include evaluation by the thesis/research supervisor(s), one or

more presentation(s) to a Committee appointed by the course coordinator and the final thesis presentation in terminating semester. The composition of committee will be as follows:

(a) Faculty advisor or nominee– Chair of the committee

(b) One faculty from the same discipline (preferably senior faculty) - Member

(c) One faculty from other discipline – Member

(d) Thesis supervisor - Member

The committee Chair may invite an external examiner from other institute or industry during final thesis defense. In that case, the external examiner will be a member of the above committee board.

The detailed assessment process will be framed by the course interest group (CIG). However, in these assessments, the contribution of supervisor evaluation should not exceed 50% and the contribution of the evaluation committee should not be less than 50%. The thesis will be evaluated internally for which the evaluation mechanism will be framed by the course interest group (CIG) and approved by the program coordinator.

Based on the performance, each student is awarded a final letter grade at the end of the semester for each of the thesis/project.

A student is deemed to have completed a course successfully and earned the specified credits if he/she secures in the course a letter grade other than F, which implies a failure**.**

R 9.5   Backlog' Examination

Backlog examinations will be conducted for these programs following the same process as that of B.Tech Program.

R.10 Makeup Examination

Students who have missed the quizzes, test or end semester examination for any genuine reasons, the teacher may allow the students for makeup quiz or examination.

R.11 Attendance

The minimum attendance requirement is 80% for a student to pass a course, unless otherwise specified by the course Instructor. A student who has an attendance lower than 80% whatever may be the reason for the shortfall in attendance will not be permitted to appear in the end semester examination and will be awarded FS grade in the course in which the shortfall exists (as per Notification No. IITMandi/Acad/Senate/2023/2072-76 dt 13-07-23).

R.12 Temporary Withdrawal from the Program.

Student may be permitted by the Institute to withdraw from the program for a semester or longer due to ill health or on other valid grounds. Normally student will be permitted to discontinue from the program only for a maximum continuous period of 2 semesters. The period of leave shall be counted towards the duration of the program.

R.13 Minimum Requirement to Continue the Program

A student must maintain a minimum CGPA of 5.0 for both, M.Sc. and M.Tech., to continue the program. If the CGPA of any student falls below than required CGPA, the student will be placed in academic probation and an advisory note will be issued. If the CGPA continues to be less than 5.0 in the following semester also, then he/she shall be terminated from the program.

Similarly, if the progress of the thesis work (in the case of M.Tech.) is reported to be not satisfactory, the student will be placed in academic probation and an advisory note will be issued. If the student does not improve the progress in the following review meeting and happens to get again 'not satisfactory' grade, her/his registration may be canceled from the M.Tech. program at IIT Mandi.

R.14 Conversion of M.Tech./M.Sc. to Ph.D. Program

There is a provision for meritorious students to convert from M.Tech./M.Sc. to Ph.D program. The criteria and terms and conditions will be formulated by the concerned school and must be approved by the Senate.

R.15 Eligibility for the Award of M.Tech./M.Sc. Degree

Student shall be declared to be eligible for the award of M.Tech./M.Sc. degree if he/she:
o has registered and successfully completed all the academic requirements including prescribed courses and the Thesis.
o successfully acquired the minimum number of CGPA (5.0) for both the program, M.Sc. and M.Tech., vide **R13.0** prescribed in the curriculum within the stipulated time.
o submitted no dues to the Institute, Library and Hostels.
o has no disciplinary action pending against him/her.

R.16 Guide Allocation

Guide allocation should be done by the course coordinator in consultation with the faculty advisor.

R.17 Leave Rules

The leave rules will be as per the Institute leave norms for the students.

R.18 Discipline

The students should strictly follow the 'Student Code of Conduct' of IIT Mandi.

R. 19 Power to Modify

Notwithstanding all that has been stated above, the Senate has the right to modify any of the regulations from time to time.