

INDIAN INSTITUTE OF TECHNOLOGY MANDI



ORDINANCE

UG



IIT Mandi

This document specifies the rules and regulations pertaining to B. Tech. and B. S. programs offered at IIT Mandi. The admitted student has options for Minor/ Specialization / Honours / Second Major / M.Tech. IDD, etc.

About IIT Mandi

The Indian Institute of Technology Mandi (IIT Mandi) is one of the second-generation IITs, established in 2009 by the Government of India with the objective of advancing education, research, and innovation in science, engineering, and technology. Nestled in the mid-Himalayan region of Himachal Pradesh, the institute offers a unique academic environment that integrates rigorous scholarship with sustainability, interdisciplinary learning, and societal relevance. IIT Mandi is committed to nurturing technically competent, ethically grounded, and socially responsible graduates through outcome-based education, state-of-the-art infrastructure, and a strong culture of research and entrepreneurship.

Vision: *To be a leader in science and technology education, knowledge creation and innovation, in an India marching towards a just, inclusive and sustainable society.*

Mission:

- To create knowledge through team effort and individually for the benefit of society.
- To impart education to produce professionals capable of leading efforts towards innovative products and processes for the development of the Himalayan region in particular and our country and humanity in general
- To inculcate a spirit of entrepreneurship and to impart the ability to devise globally recognized solutions for the problems of society and industry, particularly in the fragile eco-system of the Himalayas.
- To train teachers capable of inspiring the next generation of engineers, scientists and researchers.
- To work intensely with industry in pursuit of the above goals of education and research, leading to the development of cutting edge and commercially-viable technologies.
- To operate in an ambience marked by overriding respect for ability and merit.

Table of Contents

1.	UG Admissions	3
2.	Structure of UG	4
2.1	The Students	4
2.2	The Technology Milieu	4
2.3	Expectations of IIT Mandi	5
3.	The Essence of IIT Mandi UG	5
4.	UG Curriculum	6
4.1	Credit Requirements for the Programs	6
4.2	Credit Limits in a Semester	6
4.3	Foundations of Design Practicum	9
4.4	Design Practicum	10
4.5	Interactive Socio-Technical Practicum (ISTP)	10
4.6	Major Technical Project (MTP)	10
4.7	Research Projects Undergraduate Research Project	12
4.8	Research Projects Post-Graduate Project (PGP)	12
5.	Attendance Criterion/Leave Rules	13
6.	Vacation Semesters	14
7.	Scholarships and Tuition Fee Exemption	15
8.	Internship	18
8.1	Vacation Internship	19
8.2	Semester Long Internship	20
9.	Entrepreneurship Practicum	22
10.	Minor Program	24
11.	Specialization	26
12.	Honours	27
13.	Second Major	28
14.	Semester Exchange	31
15.	Conversion to Integrated Dual Degree	32
16.	Conversion to M.S Integrated Dual Degree	34
17.	Conversion to M.Tech (R)	35
18.	Eligibility for Award of the UG Degree	36
19.	Award of Convocation Medals	37
20.	Branch Change	39
21.	Termination form UG Program	39
22.	Miscellaneous Points	40
23.	Power to Modify	41

1 UG Admissions

- 1.1. Admission to the B.Tech./B.S. programs in any year will be based on the results of the JEE (Advanced) of that year and allocations made by the Joint Seat Allocation Authority (JoSAA).
- 1.2. The eligibility criteria for appearing for JEE (Advanced) in any year will be decided by the JoSAA. The criteria will be set out in an Information Brochure to be made available to the applicants along with the relevant application forms.
- 1.3. The JoSAA will decide on the procedure for conducting JEE (Advanced) and preparing merit lists subject to minimum performance criteria in the examination. The JoSAA will offer admission from these lists to candidates, taking into account the choice of branch indicated by the candidate and the available seats in each branch in various IITs.
- 1.4. At the time of admission, a candidate should have passed in the final examination of any of the qualifying examinations and fulfill other eligibility criteria (such as medical standards) specified as per the JoSAA guidelines of that year.
- 1.5. The maximum number of students to be admitted in each branch of the B.Tech./B.S. program will be decided by the Senate of IIT Mandi. Statutory and legally mandated reservations will be followed as per Government of India orders.
- 1.6. The selected candidate will be admitted to the B.Tech./B.S. program after they fulfill all the admission requirements as indicated in the letter of admission, after payment of the prescribed fees.
- 1.7. In the matters of admission to the B.Tech. / B.S. program, the decision of the JoSAA is final.
- 1.8. If, at any time after admission, it is found that a candidate has not fulfilled all the requirements stipulated in the Information Brochure and/or in the offer letter of admission, then the admission of the candidate may be cancelled and the matter shall be reported to the Senate.
- 1.9. A limited number of foreign nationals and other categories can be admitted on a supernumerary basis to the B.Tech./B.S. programs as per the procedure laid down by the JoSAA from time to time.

Table 1: UG Programs

Sr No	Programs
1.	Bachelor of Technology in Bio Engineering
2.	Bachelor of Technology in Civil Engineering
3.	Bachelor of Technology in Computer Science and Engineering
4.	Bachelor of Technology in Data Science and Engineering
5.	Bachelor of Technology in Electrical Engineering
6.	Bachelor of Technology in Engineering Physics
7.	Bachelor of Technology in General Engineering
8.	Bachelor of Technology in Mechanical Engineering
9.	Bachelor of Technology in Materials Science and Engineering
10.	Bachelor of Technology in Microelectronics & VLSI
11.	Bachelor of Technology in Mathematics and Computing
12.	BS in Chemical Sciences
13.	Integrated Master of Business Administration program (IMBA)
14.	Bachelor of Technology in Quantum Science and Engineering
15.	Bachelor of Technology in Chemical Engineering with Data Analytics
16.	Bachelor of Technology in Agricultural Engineering with Data Analytics

2 Structure of UG

The IIT Mandi B. Tech programme has been designed taking into consideration current and future changes in society and the nature of technology, and the Vision of IIT Mandi to have a direct impact on Indian society through academic endeavors. The context includes:

2.1 The Students: The scheme of admission based on JEE ensures that students who join IIT for UG programs are highly intelligent and are capable of hard work *if sufficiently motivated*. Students often do not have particular interest or aptitude for the branch to which they have been admitted. After graduation, our students go on to make their mark in a variety of ways: as researchers, design engineers and professors; as technical managers, public administrators, in NGOs and policy think tanks, venture capital funds, entrepreneurs, etc.

2.2 The Technology Milieu: Globalization and rapid march of science and technology have brought dramatic changes in the nature of the engineering profession. Increasingly, engineers are called upon to deliver technology to a wide variety of

people in diverse socio-economic strata, cultures, geographies and political systems. The rapid advance of science and technology implies that much of the knowledge that a student learns during B.Tech. has a useful life time of only a few years. Conversely, much of the knowledge that an engineer will use during his/her career of 40-50 years will be learnt *only after graduation*. Only some very basic principles can be expected to remain current over the next half a century.

2.3 Expectations from IIT Mandi: As an Indian Institute of Technology, it is our duty to train leaders for the growth of India with a strong technology focus. This is reflected in our Vision and Mission that have been guiding IIT's strategy since inception. Of specific relevance to the B. Tech programme are the Mission statements:

- *Impart education to produce professionals capable of leading efforts towards innovative products and processes for the development of the Himalayan region in particular and our country and humanity in general.*
- *Inculcate a spirit of entrepreneurship and to impart the ability to devise globally recognized solutions for the problems of society and industry, particularly in the fragile eco-system of the Himalayas.*

3 The Essence of IIT Mandi UG

Given the above context, our B.Tech programme is designed to give students a broad base to prepare them for their careers in the rapidly-changing future. Students who wish to specialize and pursue an area to great depth may do so at the Masters and PhD levels

The necessary and desirable characteristics of all our B.Tech. graduates are:

1. Self-motivated with a passion to contribute in national development and societal betterment.
 2. Practicum and projects (learn-by-doing) throughout the 4 years to develop the ability to learn quickly and devise innovative solutions.
 3. A solid foundation in basic principles coupled with substantial practical hands-on experience through experiential learning approach.
 4. Sufficient specific knowledge to be immediately productive in industry
- The IIT Mandi B.Tech curriculum consists of 3 major components:

- **Foundations** of all B.Techns. are facility in design and innovation; strong understanding of common scientific and engineering principles and methods; and breadth of knowledge outside science and engineering i.e. in the humanities, social sciences and

management.

- **Core** of knowledge in the student's chosen branch. This is kept to the bare minimum, with principles and techniques being learnt in theory courses, in labs or in practicums.
- **Specialist Baskets.** Many of these are interdisciplinary. In each basket, the horizontal line divides the basic from the advanced courses.

4 UG Curriculum

Every branch of the B.Tech./B. S. program will have a curriculum and course contents approved by the Senate.

4.1 Credit Requirements for the Program: The minimum total credit requirements that has to be satisfactorily completed for the award of a B.Tech. degree is 160 credits, and that for a B.S. degree is 163 credits. A student doing Honours / Second Major / M.Tech. IDD may have to complete additional credits to earn these, which are mentioned in their respective sections. On an average, a student is supposed to do 20 credits in a semester.

The curriculum consists of courses mainly in the following categories: Institute Core courses, Institute Elective courses and Discipline Core and Discipline Elective courses. Along with these, there will be free electives and HSS courses. The courses belonging to these categories are grouped into various baskets as given in Table 2. In each basket, the student has to earn a minimum number of credits as prescribed by the Senate approved curriculum to graduate the B.Tech./B.Tech. (Honours) program.

In addition, a student should satisfactorily complete Internship (Industry/Research) and NCC/NSO/NSS/Hiking & Trekking requirements as well.

4.2 Credit Limits in a Semester: A student has to register for a minimum of 12 credits and up to a maximum of 22 credits in a regular semester. The number of credits can be less than 12 credits in a vacation semester or during the semester-long internship. Any exception to this requires the permission of AD (Courses) / Dean (Academics). The permission in such cases is based on individual case, after considering the necessity, past performance etc. If a student is opting for a course, by visitors, in the middle of the semesters, it should be within the approved 12-22 credits. Student should obtain permission from the Dean Academics / AD Courses, if the number of credits is more than 22. If a student opts for Audit course, the total number of credits, including the audit course, should not be more than 25. If students opt for extra credits without approval from Dean Academics, Academic section will remove such excess credits,

without any intimation. Permission for extra credits should be obtained before the add/drop dates. If One Time Approved Courses are offered in the middle of the semester, permission should be obtained before the commencement of the courses. Post dated permissions will not be given.

- 4.2.1 If a student is undergoing a semester long internship (onsite / off campus), the minimum credits to be registered is relaxed to 9.
- 4.2.2 The final CGPA, calculated upon the completion of all credit requirements towards the fulfilment of a degree, includes all credits earned against a letter grade, including those credits that are in excess of the minimum requirements.
- 4.2.3 The Semester Gradesheet includes 'F' grade earned, if any. However, the final CGPA calculation shall not include any 'F' grade once all the earned credit requirements are completed, (including the minimum credit requirement per basket such as IC / DC / DE / FE etc).
- 4.2.4 Every course of the B.Tech./B.Tech. (Honors)/B. S. program will be placed in one of the course baskets listed in the table below:

Table 2: B. Tech Credit Distribution (Ref: 37th Senate)

S.No.	Category	B. Tech (2022 and 2023 batches)	B. Tech (2024 batch onwards)
1.	Institute Core courses	60	60
	IC Compulsory	39	32
	IC Basket	6	6
	Humanities and Social Sciences / Indian Knowledge System	15	15
	Internship / Entrepreneur- ship Practicum Stage - 1	2	2
2.	Discipline Core and Discipline Electives	66	66
	Discipline Core	Minimum 33	Minimum 33
	Discipline Electives	Minimum 12	Minimum 12
3.	Elective Courses	34	41
	MTP or equivalent DE	12(12)	12(12)
	ISTP, IC202P (or equivalent FE)	7(7)	7(7)
	Free Electives	22	22

4.2.5 From 2024 batch onwards, IC 102P are compulsory for all UG students. However, IC 202P is mandatory for SMME, SCEE and UG Mathematics and Computing.

4.2.6 Maximum credits under HSS courses will be 20. Any credits completed beyond this limit will not be counted for graduation requirements.

4.2.7 If a student opts out of the courses under electives, the following substitutive courses are to be done:

Table 3: Course Alternatives (Ref: 49th BoA)

Course	Substitute(s)
IC 202P (Design Practicum; DP)	Free Elective(s)
DP 301 (Interactive Socio Technical Practicum; ISTP)	Free Elective(s)
Major Technical Project-1, 2 (MTP-1, MTP-2)	Discipline Elective(s)

#Number of credits DC and DE is different for each B.Tech. branch. Refer to table 4 for split-up of various branches.

4.2.8 Students can choose the courses of their choice from parent discipline (or from the list available). They are counted under the Discipline Electives.

4.2.9 Students can choose the courses of their choice across various disciplines or schools, including their parent school or discipline. These are counted under free electives. A Discipline Course (DE) can become a free elective, but not vice versa.

4.2.10 The discipline core and discipline elective distribution for various branches are:

Table 4: Discipline Core and Elective Distribution

Branch	Discipline Core	Discipline Electives	Reference
BS	62	23	59 th BoA
BE	42	24	56 th BoA
CE	49	21	59 th BoA
CSE	38	31	42 nd BoA
DSE	38	28	56 th BoA
EE	52	20	56 th BoA
EP	37	30	50 th BoA
MC	55	15	59 th BoA
ME	50	16	59 th BoA
MSE	45	22	38 th Senate
VLSI	54	12	39 th Senate

GE	36	30	59 th BoA
QSE	44+1 (RE*)	21	48 th Senate
CEDA	51	15	48 th Senate
AEDA	49	17	48 th Senate

*RE: Reverse Engineering

4.2.11 Every course of the B.S. program will be placed in one of the course baskets listed in the table below:

Table 5: BS Credit Structure (Ref: 59th BoA)

S.No.	Category	B.S. Credits	B.S.-M.S. Credits
1.	Institute Core Compulsory	27	27
	IC Basket	6	6
	IKS / HSS	15	15
2.	Discipline Core and Discipline Electives	B.S. program 85	B.S. program 85
	Discipline Core	62	Min. 59
	Discipline Electives	24	Min. 29
3.	Elective courses		
	Free Electives*	Min. 15	Min. 15
	Research Communication and Projects	Min. 14	Min. 46
	Total	163	201

*In addition to the credits of the courses classified as Free Electives, extra credits earned in Discipline Elective basket can also be considered for satisfying the credit requirement of Free Elective basket.

4.3 Foundations of Design Practicum

The course gives an outline of the steps in solving an engineering design problem through an example of a robot building. The course is multidisciplinary of its kind and will be used to bring out the multidisciplinary aspects of a typical engineering design problem. The course unravels the different steps of engineering problem solving culminating in the development of a robot.

4.4 Design Practicum

In this course, the teams are asked to design a prototype based on commercially-off-the-shelf (COTS) hardware or software (Preferably open source). Prototypes are used to gather requirements, and are especially useful in visualizing the look and feel of an application and the process workflow. The prototype can be used as the basis for developing the final solution. The goal when developing such prototypes is to capture the functions and appearance of the finished product. These prototypes are used for testing and evaluation, and provide useful information for the user to rank the products or the features.

4.5 Interactive Socio-Technical Practicum (ISTP)

Indian Institute of Technology Mandi encourages interactive academic culture and the curriculum is substantially oriented towards design and innovation. One of the signature courses under the Design & Innovation Practicum stream is the Interactive Socio-Technical Practicum (ISTP), which is offered to the 3rd year B.Tech. students only. This is an elective course for regular B.Tech. If a regular B.Tech. student (2022 B. Tech and earlier batches) opts to substitute ISTP with other elective courses, he/she should opt 3 credits from Discipline Electives and 1 credit from Free Electives to complete the basket requirements. From 2023 B.Tech. onwards, if a student opts to substitute ISTP with other elective courses, he/she should opt all 4 credits from Free Electives to complete the basket requirements.

4.6 Major Technical Project (MTP)

- 4.6.1 MTP is the capstone of the 4-year B.Tech. program and of the 4th course under Design & Innovation Practicum sequence.
- 4.6.2 The project will be a single project extended over 7th and 8th semesters. The project will be an individual project.
- 4.6.3 There will be one principal guide and co-guides (if required) for a project. Faculty members from all the schools can be part of the guidance of MTP projects.
- 4.6.4 As the project is expected to have a major technical contribution in the student's discipline, faculty members whose expertise is in other disciplines are expected to co-opt a colleague having expertise in the student's discipline as a co-guide.
- 4.6.5 MTP is an elective course under Design & Innovation Practicum basket, under elective component, for regular B.Tech./B.S.
- 4.6.6 Since MTP is under Discipline Elective, student must work in the core area towards the MTP works. If a student does MTP in non-core areas, it will be counted under Free Elective credits.

- 4.6.7 If a regular B.Tech student (2023 batch onwards) opts to substitute MTP with other elective courses, he/she should replace all 8 credits of MTP, with Discipline Electives to complete the basket requirement. For earlier batches (2022 and earlier), student should opt 6 credits from Discipline Electives and 2 credit from Free Electives to complete the basket requirements, or in the ratio of 3:1 (Discipline Electives: Free Electives).
- 4.6.8 MTP-1 will have 4 credit and MTP-2 will have 4 credits, both in cumulative 8 credits.
- 4.6.9 Students may opt MTP 2 in 8th semester if they not enrolled in MTP 1 in the 7th semester. In this case, student must complete equivalent credit of MTP 1 as Discipline elective.
- 4.6.10 If a student opts to do MTP, but obtain grade point 6 or below in the first stage of MTP-1, he/she will not be allowed to continue on to the second stage of MTP-2. The grade earned by the student in MTP-1 will be included in the grade sheet and transcript. The student will have to make up for the remaining MTP credits by taking 4 credits from the Discipline Electives basket. For earlier batches (2022 and earlier), student should opt 6 credits from Discipline Electives and 2 credit from Free Electives to complete the basket requirements, or in the ratio of 3:1 (Discipline Electives: Free Electives).
However, if such a student wishes to continue doing the MTP, he/she may appeal giving justification to the Dean (Academics) with the recommendation of the MTP guide(s) and Faculty Advisor.
- 4.6.11 If a student has earned a grade point of 7 ('B-' grade) or above in MTP- 1, they will be required to continue on to MTP-2.
However, if such a student wishes not to pursue MTP-2, he/she may appeal to Dean (Academics) through the Faculty Advisor and the guide(s), with strong justification from both student and guide(s). For earlier batches (2022 and earlier), student should opt 6 credits from Discipline Electives and 2 credit from Free Electives to complete the basket requirements, or in the ratio of 3:1 (Discipline Electives: Free Electives).
- 4.6.12 Since huge efforts are put by the guide also(s) in MTP, dropping MTP- 2 is highly discouraged and rarely permission will be given for dropping MTP-2.
- 4.6.13 If allowed to drop MTP-2, the grade earned by the student in MTP-1 will be included in the grade sheet and transcript. The student will have to make up for the remaining MTP credits by taking 4 credits from the Discipline Electives basket.
- 4.6.14 If MTP completely in a different discipline, they would be awarded 8 credits from Free Elective basket.

4.6.15 MTP1 and MTP2 must be done in campus physical mode. In any case MTP shall not be allowed in online/remote mode.

4.7 Research Projects: Undergraduate Research Project

B.S. Students are highly encouraged to opt for undergraduate research projects aligned with their specific research and scientific interest in their 7th and 8th semesters. This research-based learning provides a great opportunity for the students to learn research methodology and instrumentation, which can be aligned to the stream specialization or minors. The research-based learning is optional, and if not opted for, the credit requirements need to be fulfilled through discipline elective courses.

4.8 Research Projects: Post-Graduate Project (PGP)

4.8.1 Post-graduate projects (PGP) must be done by the students who opt for the B. Tech - M. Tech or B.S. - M.S. program. The project will be a single project spanned over the 9th and 10th semesters or last two semesters. Each student will be assigned to a supervisor(s) at IIT Mandi to pursue the project. An external co-supervisor can be opted for as per the Institute's Senate approved norms. After completion of the project, students need to submit a detailed project report²³.

4.8.2 All courses, other than Discipline core in a parent branch will be by default discipline electives. For outside discipline courses, a separate list is available in the respective curriculum.

4.8.3 Any discipline elective course, beyond the minimum limit may also be counted as free elective.

References:

1. 2nd Senate (Perspective of B. Tech)
2. R.3 B. Tech Ordinance
3. 20th Senate Annexure-B
4. Item 37.11, <https://insite.iitmandi.ac.in/circulars/show.php?ID=F.No.IITMandi/Acad/Senate/2022/4641-45>
5. [https://insite.iitmandi.ac.in/circulars/show.php?ID=No.IITMandi/AR\(Acad\)/2019/6783-93](https://insite.iitmandi.ac.in/circulars/show.php?ID=No.IITMandi/AR(Acad)/2019/6783-93)
6. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/RO-01/2016/5085-89>

7. 32.16, Senate Minutes (only for one time)
8. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/SM-44/2024/471-477>
9. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Senate/2022/4062-65>
10. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Senate/2021/3259-63>
11. <https://insite.iitmandi.ac.in/circulars/show.php?ID=F.No.IITMandi/Acad/BoA/2023/5006-10>
12. <https://insite.iitmandi.ac.in/circulars/show.php?ID=F.No.IITMandi/Acad/BoA/2023/269-73>
13. Item 6.6, 6th Senate
14. <https://insite.iitmandi.ac.in/circulars/show.php?ID=F.No.IITMandi/Acad/BoA/2023/259-63>
15. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/BoA-54/2024/8051-55>

5 Attendance Criterion/Leave Rules

There is no leave concept for the UG Students. They are expected to attend 100% classes of each and every course. Students missing the classes in the middle of semester is highly discouraged. However, 20% relaxation is provided to them to meet various unforeseen situations. This relaxation is not extendible. Students cannot carry forward the surplus attendance to other courses either in the same semester or for subsequent semesters.

- 5.1 Recording of attendance is must for all courses.
- 5.2 Every faculty, for all courses which he/she is teaching, should record the attendance and maintain the attendance registers.
- 5.3 It is the student's responsibility to check the attendance periodically. Instructor may/may not post the intermediate attendance.
- 5.4 A student, with attendance less than minimum specified, will not be permitted for the end exams and will be will be awarded a 'FS' grade, which is fail due to short attendance. A student, with 'FS' grade in a course, needs to repeat the course.
- 5.5 A student, who fails to secure minimum attendance in an Audit Course may not

be allowed to appear for the exams. They will be awarded 'AF' grade and will be reflected in grade sheet.

- 5.6 Students representing official events of IIT Mandi outside the campus, must seek prior leave approval from Dean (Acad), such official leave will be counted towards minimum 80% attendance. A maximum of 10 days leave (including weekend and holiday) may be availed by the student. However, in such case any missed evaluation part like quiz and assignment will be responsibility of the student. After the leave approval, Dean (Acad) may advise the concerned course instructor to arrange make up evaluation for the student if any missed during the leave.
- 5.7 Student must take medical leave approval from Dean (Academics) with submission of relevant documents, within one week after coming back to campus.
- 5.8 If Student is staying within campus during the medical leave duration, the leave approval must be taken within 15 days.
- 5.9 Medical leave will be grants on actual basis against the medical report submitted by the student. A maximum of 30% semester days (including weekend and holiday) may be availed by the student. In the number of medical leave exceed from the maximum cap, the student may request for semester drop/leave. For medical case, only government hospital records/IIT Mandi Health center recommendation will be entertained.
- 5.10 Before leaving the campus for any reason, student should inform the FA about the absence. On a stretch, a student can be absent for a maximum of 20 days (which corresponds to 80% of classes in a semester). They may need to inform the warden of their hostel about their absence. If a student goes on medical emergency, they need to inform the FA and Dean (Acad) within a week of their departure from campus.
- 5.11 If there is a necessity for the long leave, students can exercise the option of Semester Leave.
- 5.12 Fifth / Final Year IDD students, are governed by the M. Tech leave rules.

6 Vacation Semesters

Provision for the Vacation Semesters is made to clear the backlogs of the IC Courses and Discipline Core or Discipline Elective courses. This provision is also extended to the graduating students, in order to complete their studies / graduation on time.

Typically, the instructors who taught the course during the regular semester will conduct the vacation courses. School/Center Chairs may nominate other faculty, in case original instructors are not available, during vacation.

- 6.1 Students can register for courses during Vacation Semesters up to a maximum 15 credits, on payment of registration fee at prescribed rates.
- 6.2 All students with 'F' or 'FS' grade during regular semester must take the vacation semesters' courses to clear the Course backlogs.
- 6.3 Institute may run vacation semesters, in case of shortened regular semesters/ regular semesters with reduced credits.
- 6.4 Vacation semesters will run during vacations provided a faculty member is available for running the course and a minimum of 5 students are registered for the course.
- 6.5 Graduating students can approach the faculty for the vacation semesters' courses. For graduating students' courses, there is no restriction on number of registrations.
- 6.6 The Vacation Semester typically runs for 4-8 weeks, during semester break.
- 6.7 The total number of contact hours for the courses remains the same as that during the regular semesters, and therefore the courses run at accelerated pace.
- 6.8 The evaluation and grading patterns also remain the same as during the regular semesters.
- 6.9 Minimum 80% attendance is must for all the courses taken during the vacations.
- 6.10 Courses offered in vacation semester will be treated as equivalent to a regular semester course for all accounting purposes.
- 6.11 No supplementary exams are allowed for the Vacation Semester Courses
- 6.12 If a student registers for a course and does not fulfill the attendance requirement, an "FS" grade will be awarded for the course.
- 6.13 A single final CCM for all vacation courses will be held (Chaired by Associate Dean (Courses/Dean Academics) prior to the start of the following semester. The grade submission will then be done following the CCM.

References

1. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Notf./2014-15/947>
2. 7th Senate

7 Scholarships and Tuition Fee Exemption

- 7.1 The details of various scholarships available for students shall be displayed on Institute Website from time to time.
- 7.2 The number of Merit Cum Means (MCM) scholarship for each year and each

branch will be limited to 25% of the strength of students in that particular branch in that year.

- 7.3 The scholarship will be paid after completion of 2nd, 4th, 6th and 8th semester, on the recommendations of duly constituted committee, based on the results and other relevant records pertaining to income etc.
- 7.4 The eligibility criteria and other conditions for MCM scholarship shall be notified subject to terms and conditions and at the rates approved by the Government of India from time to time.
- 7.5 In the cases of scholarships provided by private organizations, the rates and terms and conditions for the award of such scholarship shall be as approved by the Senate.
- 7.6 In the case of the SC/ST candidates, student will get reimbursement against payment of tuition fees. The award of scholarships and other benefits will be in accordance with the rules framed or amended by the Government of India from time to time. The scholarship will be paid after completion of 2nd and 4th semester, on the recommendations of duly constituted committee, based on relevant records pertaining to income etc. Reimbursement will be made against bills.
- 7.7 The Dean (Academics) will lay down the administrative procedures to be followed in the selection of students for the award of various scholarships consistent with existing Government regulations if any. The number and names of the candidates selected for various scholarships will be reported to the Senate.
- 7.8 Dhawan Fellowship for Himachali Female Students is also available.
- 7.9 CGPA and SGPA must be 6.00 or more (This condition does not apply to SC/ST applicants).
- 7.10 For B.Tech. 1st Year, the criterion of merit would be All India Rank in the JEE Advanced (For McM Scholarship).
- 7.11 The student should have passed all previous examination and should not have any backlog or F grades pending.
- 7.12 Earned credits should not less than 18 times the number of semesters registered for UG programme applying (For McM Scholarship).
- 7.13 Gross family income for all must be upto Rs. 4.5 Lakhs per annum.
- 7.14 The student must have not been subject to any kind of disciplinary action or penalty. Scholarship will not be awarded even if the pending action or pending dues has been cleared/completed later.
- 7.15 During the tenure of the scholarship, the student should not ordinarily receive any other scholarship, stipend, financial assistance or remuneration, for any work, except when provided in the rules specifically.
- 7.16 The scholarship is liable to be withdrawn, partially or wholly, in case of misconduct, concealment of material facts, supplying of false information and/or continued absence for more than a month except on approved medical grounds.

- 7.17 Students leaving the institute on their own accord without completing the program of study may be required to refund the amount of scholarship received.

7.18.1 External Scholarships

The Senate in its 44th meeting held on September 17, 2024, vide Item No. 44.3.11 has approved the following guidelines for processing various external online/offline scholarships.

If the student obtains CGPA ≥ 5 (B. Tech., M. A., M. Sc.,) with/without 'F' grade and has been promoted to next semester, then he/she will be considered passed for eligibility for scholarship only.

OR

If the student obtains a CGPA < 5 with/without 'F' grade then he/she will NOT be considered passed for the eligibility of scholarship.

OR

If the student obtains CGPA ≥ 6 (M. Tech., M. B. A., M. Tech (R), M. Sc. (R), M. A. (R), I.Ph.D, Ph. D) with/ without F grade and has been promoted to next semester, then he/she will be considered passed for eligibility of scholarship only.

OR

If the student obtains a CGPA < 6 with/without 'F' Grade then he/she will NOT be considered passed for the eligibility of scholarship.

Monthly scholarship of B.Tech-M.Tech Integrated Dual Degree in Bioengineering students will be provided in 5th / final Year. The students have to maintain CGPA of 6.5 or above as per prevailing norms for continuation of fellowship.

References

1. MCM for M. Sc. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IIT%20Mandi/RO-01/2015/6348-52>
2. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Senate/2022/4838>
3. Institute assisted Fellowship, <https://insite.iitmandi.ac.in/circulars/show.php?ID=F.No.IITMandi/Acad/Notf./2023/857-861>

4. MCM for MA students, <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/RO-01/2018/6329-32>
5. Fee remission, <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Fees/2017-DS-9963-68>
6. Scholarship for IDD students, <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Academics/B.Tech-M.TechDualDegree/2024/6504-08>
7. Criterion for Applying Scholarship, <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/SM-44/2024/532-538>
8. Minimum performance, <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Senate/2022/52-56>
9. Regarding submission of Income Certificate for availing exemption of fees by B. Tech Students. 14th Senate
10. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/SM-44/2024/532-538>
11. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Academics/B.Tech-M.TechDualDegree/2024/6504-08>
12. MCM for UG Students
13. Scholarships for UG Students

8 Internship

As part of the curriculum, students are allowed to do internships of 2 types

- (a) Compulsory Internship (Vacation Internship)
- (b) Semester-long Internship

Duration of the internships, corresponding credits and mode are provided in the following table.

Table 6: Duration and Credits for Internships

Mode of Internship	Time frame (minimum)	Credits	Valid Semester(s)	Remarks
Vacation Internship	6 weeks	2	Vacations, after completion of the 5th Semester and before the commencement of the 8th semester	This can be done online/offline as per the offer.
Semester Internship Onsite (Not on campus)	14 weeks	9	During 6th or 7th Semesters	Students are not permitted to do any offline/online Courses during the internship period.
Semester Internship Remote (student chose to stay at IIT Mandi)	14 weeks	6	During 6th or 7th or 8th Semester	Students can do a maximum of 9 credits along with 6 credits of online internship

Students are allowed to semester internships either in the industry, research or in academia both inside or outside. However, academic semester internships at IIT Mandi are not allowed since students can opt for MTP, ISTP, etc. More details are given in the next section.

The eligibility criteria and approval process for internships would be declared by the Career and Placement Cell (CnPC), IIT Mandi and/or the IIT Mandi Senate from time to time.

8.1 Vacation Internship:

- 8.1.1 B.Tech students are required to do either a vacation internship of at least 6 weeks duration, or Phase-1 of Entrepreneurship Practicum (as mentioned later).

- 8.1.2 This internship needs to be done only during vacations. This internship cannot be done during the regular semester.
- 8.1.3 This internship needs to be done after completion of fifth semester, but before the beginning of eighth semester.
- 8.1.4 For the two-credit academic internship, the subject of your internship needs to be verified by the Faculty Advisor before applying for the internships. Only after the approval and after the completion of internship students will be awarded the 2 credits.
- 8.1.5 Permitted in core domain and may be done in AIIMs/TIFR/IISc/IITs/IISERs/ISI/reputed center funded research institute / state or central government departments. It can be also permitted in reputed private firms.
- 8.1.6 The credits are only given at the sole judgement of respective faculty advisor, if there is any conflict Dean (Acad) will take final decision on this matter.
- 8.1.7 The internship evaluation can be done by report submission of the work done by the student to group of FAs of the program discipline which will be chaired by FA of the student, if needed external expert can be invited by the FA of the student.
- 8.1.8 Students are advised to get their faculty advisor's consent before applying for internships. This is particularly important for general / non-core company.
- 8.1.9 If you are going for an off-campus internship, please make sure that it fulfills the institute's requirements, as you will be required to submit the internship certificate in the format specified by the institute.
- 8.1.10 2 P/F credits would be awarded to B.Tech. students on successful completion of the internship. These would count under the IC Compulsory basket requirement.
- 8.1.11 Grades for this internship will be awarded as part of 8th semester grade sheet.
- 8.1.12 These are optional for B.S. students, and if done, no credits would be awarded.

8.2 Semester Long Internship

- 8.2.1 B.Tech./B.S. students will be allowed to go on a semester internship after the completion of 5th semester. This internship has to overlap with regular semester of IIT Mandi.
- 8.2.2 This work may be done in core or non-core areas; however, the authenticity of offered organization should be verified by CnP cell.
- 8.2.3 The minimum duration for a semester internship is 14-16 weeks. This internship may be on-site / remote.
- 8.2.4 If a student holds an onsite / offsite semester internship offer, they may be allowed to do at most 9 P/F credits in one semester (relaxing the 6 P/F

credits per semester limit).

- 8.2.5 For any particular semester in which a student is doing their onsite / offline semester internship, the minimum 12 credits per semester limit, as mentioned in ordinance will be relaxed to 9 credits. Students may combine / club with this internship with the mandatory 2 credit internship, subjected to the fulfilment of other rules.
- 8.2.6 Applicable fee for the semester must be paid by the student.
- 8.2.7 Student needs to register for Semester Long internship course DP399xxx for 9 credits or DP396xx for 6 credits.
- 8.2.8 Students are not allowed to register for the courses during the off campus/on-site internship.
- 8.2.9 Students undergoing online internships are permitted to take 2-3 courses with maximum credit of 9. Evaluation is as per the institute norms.
- 8.2.10 The internship can be done in recognized and reputed industries/companies, R&D institutions or academic institutions in India or Abroad. FA with help of CnP cell (if needed) may confirm whether the company or industry is reputed or not and recommended/ approved internships.
- 8.2.11 Internships at the startups or non-registered companies are not permitted.

8.3 Evaluation

- 8.3.1 The student must intimate the name and contact details of a mentor from the organization where the internship is to be carried out, within 2 weeks of starting the internship to their FA and/or CnP Cell as applicable.
- 8.3.2 A report on the work done during internship should be submitted by the student to their Faculty Advisor. The student needs to include a duly signed certificate of internship completion from the mentor in the report submitted to the FA.
- 8.3.3 The internship evaluation can be done by presentation of the work done by the student to group of FAs of the program discipline which will be chaired by FA of the student, if needed external expert can be invited by the FA of the student.
- 8.3.4 Any further requirement for evaluation if deemed necessary by the Faculty Advisor may be included in the evaluation pattern. The evaluation outcomes can be either Satisfactory (P grade) or Unsatisfactory (F grade).

Grading based on Company Feedback Process:

- (a) The FA can choose the scheme of evaluation for internship credit which is Pass/Fail.
- (b) If a company shares negative feedback due to the underperformance of the student throughout the internship, then the following steps would be

taken:

- i. The company and students' feedback form will be considered before validating the company's remarks.
- ii. A committee, including FA, Advisor CnP, Dean Academics/representative, and designated CnPC coordinators, will be formed to investigate the cases.
- iii. If a student's work is insufficient, he will be given partial or no credits.

- **Important Note**

Ideally, all students are expected to complete their semester internship. Dropping the semester internship is highly discouraged and would only be allowed in very exceptional circumstances at the discretion of the Faculty Advisor and Advisor (CnP Cell), for which the barrier would be high. No credits will be awarded for any partially completed semester internship.

Internship drop is allowed before mid-semester in case of stressed or negative feedback from students on discontinuation, which will be evaluated accordingly.

9 Entrepreneurship Practicum

- 9.1 With Entrepreneurship Practicum (EP), IIT Mandi provides students an opportunity to pursue their entrepreneurial ventures while earning credits for the same.
- 9.2 To implement EP, the Institute may engage with institute incubator through an MoU that details both parties' financial and operational responsibilities.
- 9.3 B.Tech./B.S. students interested in starting a venture can register for this course any time after the end of their 4th semester by submitting a proposal in a prescribed format that would be evaluated by the incubator.
- 9.4 EP is structured as 2 phases
 - 9.4.1 Phase-1: The students learn the basics of starting a venture during a span of at least 6 weeks, through offline / online lectures / workshops/ training sessions amounting to at least 14 hours. At the end of this phase, students are expected to do user research and develop their problem statement. It is in lien of 2 credit internship.
 - 9.4.2 Phase-2: The students start implementing their venture idea during a span of at least 14-16 weeks. The funding for the venture may come from IIT Mandi

/ Incubator / external sources with appropriate approvals. For on-site or offline internships, 9 credits would be given and or off-site or online internships, 6 credits would be given, on successful completion.

9.5 This internship is based on call only.

9.6 Evaluation

An Entrepreneurship Practicum Evaluation Committee (EPEC) is constituted to evaluate the performance of students, with the following composition

- (a) EP Coordinator (Faculty In Charge of Incubator)
- (b) At least one technology/business expert from IIT Mandi/Incubator
- (c) Any other invitee(s) by EP Coordinator

The EPEC would evaluate students as follows:

- (a) At the end of Phase-1, the EPEC would assess the students' understanding of the problem, problem validation, execution plan, etc.
 - i. If performance is satisfactory, students are awarded 2 P/F credits and allowed to continue to Phase-2 of EP. Students may decide whether to continue or not.
 - ii. If performance is unsatisfactory, students are not awarded any credits and can't progress to Phase-2 of EP
- (b) For the students who continued to Phase-2, the EPEC would evaluate their performance at the end of Phase-2
 - i. If the performance is satisfactory, students are awarded 9 P/F credits
 - ii. If performance is unsatisfactory, students are not awarded any credits.

References

1. 13th Senate Internship policy (13.5)
2. Foreign Internships, 20th Senate (20.10)
3. M. Tech Internships, 22nd Senate (22.7), [https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMANDI/\(ACAD\)/M.Tech/2018/DS-2705-0944](https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMANDI/(ACAD)/M.Tech/2018/DS-2705-0944)
4. <https://insite.iitmandi.ac.in/circulars/>

show.php?ID=IITMandi/Acad/Senate/2021/1719-26

5. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Senate/2021/104-111>
6. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/SM-44/2024/463-470>
7. Field Trips, <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/2018/DS-1275-80>
8. EP, 35th Senate, <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Senate/2022/3670-71>
9. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/RO-01/2017/6125-29>
10. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/SM-42/2024/802-09>

10 Minor Program

- 10.1 A minor is intended for a student to gain expertise in an area outside his/her major B.Tech. discipline. Minor can be in HSS or outside parent branch. There will not be minor in parent branch.
- 10.2 A specialist basket of at least 9 credit or as per the approved courses are identified for each Minor. Such a course basket may rest on one or more foundation courses.
- 10.3 A basket may have sequences within it, i.e. advanced courses may rest on basic courses in the basket. In order to successfully complete a Minor, a student needs to take at least 9 credits with a CGPA of 7.0 out of the courses defined in that Minor basket.
- 10.4 The area of the Minor must be different from the Major discipline of the student; the courses that are part of the Common Core (including HSS), or the Discipline Core/Electives cannot be counted towards a Minor. However, the 5 credits earned under Humanities Electives may be counted for Minor requirements if needed.
- 10.5 A student is allowed to take any number of Minors, but a particular course cannot be counted for more than 1 Minors.
- 10.6 The name of the Minor will appear on the Transcript and the degree certificate of the student.
- 10.7 These courses are either under HSS or under Free Electives.

References

1. 2nd Senate (2.7)
2. 3rd Senate
3. 4th Senate (4.8)
4. 9th Senate (9.4)
5. 17th Senate (17.4)
6. 28th Senate (28.12)
7. 35th Senate (37.8)
8. CSE minor, 37th Senate (37.8)
9. 33rd Senate (33.5)
10. 42nd Senate
11. Execution of minor, <https://insite.iitmandi.ac.in/circulars/show.php?ID=F.No.IITMandi/Acad/BoA/2023/254-58>
12. Updated list of CSE minor, <https://insite.iitmandi.ac.in/circulars/show.php?ID=F.No.IITMandi/Acad/Senate/2022/4554-57>
13. Modification in Minor in German, <https://insite.iitmandi.ac.in/circulars/show.php?ID=F.No.IITMandi/Acad/Senate/2022/3659-62>
14. Minor in management, <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Senate/2022/4058-61>
15. Minor in Management 2020, <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/OM/2020/12563-68>
16. Minor in German, <https://insite.iitmandi.ac.in/circulars/show.php?ID=F.No.IITMandi/Acad/BoA/2023/5000-05>
17. Modification in Management Minor, <https://insite.iitmandi.ac.in/circulars/show.php?ID=F.No.IITMandi/Acad/BoA/2023/5011-15>
18. Minor in Robotics, <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/BoA-57/2024/12242-46>
19. Minor in Physics, <https://insite.iitmandi.ac.in/circulars/show.php?>

ID=IITMandi/Acad/BoA-54/2024/8051-55

20. Additional courses for Minor in Management, <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/BoA-54/2024/8066-71>
21. Minor in Intelligent Systems, <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/RO-01/2018/6552-55>
22. Addition of courses for Minor in Management, <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/BoA-54/2024/8072-77>
23. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Senate/2020/16319-324>

11 Specialization

- 11.1 A specialization is intended for a student to gain expertise in a specific area in their major B.Tech./B.S. discipline.
- 11.2 A specialist basket of at least 15 credits is identified for each Specialization. Such a course basket may rest on one or more foundation courses. A basket may have sequences within it, i.e. advanced courses may rest on basic courses in the basket. In order to successfully complete a Specialization, a student needs to take at least 15 credits with a CGPA of 7.0 out of the courses defined in that Specialization basket.
- 11.3 For each UG discipline, applicable specialization list is available. Students choose the course to get specialization as per the applicable list.
- 11.4 The name of the Specialization will appear on the Transcript and the degree certificate of the student.
- 11.5 On completion of Specilization, a student would be awarded a degree of B. Tech in ... with Specialization in

References

1. Specialization, <https://insite.iitmandi.ac.in/circulars/show.php?ID=F.No.IITMandi/Acad/Senate/2023/232-236>

12 Honours

- 12.1 Students admitted to B.Tech./B.S. program can opt for Honours degree during the fourth or fifth semester if they did not earn any 'F' grade till fourth or fifth semester.
- 12.2 B.Tech./B.S./B.Tech.-M.Tech. Students must complete 8-credits of MTP- 1 & MTP-2: Evaluation of Major Technical Project should be done in their own (parent) discipline. Since the students of integrated dual degree leading to B.Tech-M.Tech., B.S.-M.S. are required to do PGP, the requirement of 8 credits of MTP is waived off. Grades in MTP should be 'B' or above.
- 12.3 For Second Major students, MTP should be in the parent branch only.
- 12.4 Student should not have received an 'F' grade throughout the program.
- 12.5 On fulfilling the above relevant requirements, student can obtain the Honours degree by satisfying either of the modes below:

(a) **Mode A:** Have a CGPA of 8.5 or more out of the 160/ total credits completed

(b) **Mode B:** Have a CGPA of 8.0 or more out of the 160/total credits completed along with

Either an original research article published/accepted in a prestigious SCI/SCIE journal

OR

Patent granted in relevant discipline (i.e 160 credits of B.Tech or 163 credits for BS + one SCI/SCIE Journal Article/Patent Granted as per guidelines below:

"In case of student is not eligible for Honours degree and he/she has accepted/published research article (SCI/SCIE Journal), the MTP Evaluation Committee may recommend for additional work during MTP-1 evaluation and can be graded by school/centre committee." MTP evaluation committee may also recommend the work for MTP-1, if found suitable.

Patent's relevance to discipline will be judged by MTP evaluation committee.

12.6 Honours degree would be awarded as follows -

12.6.1 For B.Tech. / B.S. students: B.Tech. (Honours) / B.S. (Honours) in

12.6.2 For IDD students: B.Tech. (Honours) and M.Tech. / B.S. (Honours) and M.S.

12.6.3 For B.Tech. Second Major students: B.Tech. (Honours) in with Second Major in

12.7 Guidelines for considering Journal articles/Patent granted:

12.7.1 Article should be submitted and accepted during student registration at IIT Mandi and should be declared by student to Academic office (duly recommended by supervisor/FA/Chairperson) before the last date of Grade submission of 8th Semester.

12.7.2 Research article/patent should be published with IIT Mandi affiliation.

12.7.3 Faculty mentor may decide the contribution/sharing of credits for the research article/patent.

References

1. 10th Senate (10.7)
2. 11th Senate (11.6, 11.8)
3. 39th Senate (39.7)
4. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Senate/2023/2067-71>
5. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/RO-01/2016/5906-11>
6. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMANDI/RO-01/2016/7803-06>

13 Second Major

13.1 A B.Tech./B.Tech.- M.Tech. IDD student can opt to major in a secondary discipline by completing its core and elective courses by spending an extra year.

13.2 Eligibility Criteria and Application Process

(a) CGPA \geq 7.0, no more than one 'F' grade at the time of application

(b) Application period would be end of

i. 6th semester for B.Tech. students

ii. 8th semester for B.Tech. - M.Tech. IDD students

(c) Application must be recommended by the FA

Respective schools will decide on the number of seats for specific each year, based on various factors.

13.3 A committee would be constituted by the Dean (Academics) to decide the number of students to be admitted into the Second Major program. Students' applications would be considered on a merit basis using the CGPA at the time of application and other conditions as laid by the committee and / or respective school.

13.4 Extra Coursework

13.4.1 A student needs to complete a total of 196-200 credits under this program, which included 36-40 credits extra courses from a specified basket of courses consisting of DC and DE courses from the second discipline. This basket of courses is decided upon the School Chair of the respective discipline.

13.4.2 These extra courses are to be done after 5th semester.

13.4.3 Fees for UG and PG are different. Fees for B. Tech, B. Tech with second major, B. Tech part of IDD etc. are same as that of B. Tech fees. IDD students will pay M. Tech students' fee during their final year.

13.4.4 Students may start doing these extra courses (even before they officially enroll into a Second Major program) and count them towards the Second Major requirements if they are accepted into this program, from sixth semester.

13.4.5 Courses that are a part of DC/DE/HSS with 160 credits requirements for the parent discipline cannot count towards the second major requirement.

13.4.6 Courses that count towards the second major can't be taken in P/F mode

After the successful completion of the extra coursework, the student would be awarded a joint degree as B.Tech./B.Tech - M.Tech. in <Parent Branch> with second Major in <Secondary Branch>. A single transcript with all courses of B.Tech. and second major would be provided, with a single CGPA calculated over all the courses as per the institute norms.

13.5 Exit from Second Major

- 13.5.1 Voluntary termination/exist from the program is not allowed.
- 13.5.2 However, a student would be terminated from the second major program if he/she gets 2 or more 'F' grades in the coursework for the program.
- 13.5.3 In case of termination, the extra coursework done can be counted towards the parent program (if required) and degree of the parent program can be awarded if the student has completed the minimum requirements for the parent program.
- 13.6 B.Tech. students enrolled in the Second Major program will compete with regular B.Tech. students graduating in the same year for all the Convocation medals.
- 13.7 B.Tech. (Honours) program will only be applicable to the parent Major discipline, and not in the second Major discipline.
- 13.8 A student cannot undertake a second Major and minor in the same discipline.
- 13.9 The student has to do MTP in the parent branch / discipline only. He/she cannot do MTP in outside parent branch / discipline. If the student does MTP in second major, it should be counted under Free Electives.
- 13.10 Student can do courses under second major during seventh to tenth semesters.
- 13.11 If student is undergoing IDD+ Second major, M. Tech part of IDD has to be done in the 6th year. Once the student enters the M. Tech, he/she cannot take any courses below 5 level. The student may need to pay B. Tech fee till fifth year. During sixth year, the M. Tech fee is applicable. Also, student is eligible for fellowship, as per the norms of M. Tech.
- 13.12 Before going to M. Tech part (wherever applicable), all the courses related to B. Tech must be completed. Once a student enters M. Tech part, B.Tech courses cannot be taken. Students should finish all the IC, DC and DE requirements of B. Tech / B. Tech with second major / B. Tech part of B. Tech - M. Tech before converting to the M. Tech programs.

References:

1. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Senate/2021/3255-58>
2. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Senate/2022/1115-18>
3. <https://insite.iitmandi.ac.in/circulars/show.php?ID=F.No.IITMandi/Acad/Senate/2022/3667>

14 Semester Exchange

- 14.1 IIT Mandi has memorandum of understanding (MoU) for semester exchange visits with some eminent academic institutions in India and abroad. Selection of candidates for such exchange visits will be done through a competitive process.
- 14.2 Selected students can go on exchange visit for one or two semesters. If the student goes on semester exchange visits for two semesters, these two semesters can be contiguous.
- 14.3 No student exchange visit will be allowed during the final (normally eighth or tenth or twelfth) semester.
- 14.4 Some of the signature courses of IIT Mandi (Foundations of Design Practicum, Design Practicum, ISTP, MTP and any others that are notified from time to time) must be completed at IIT Mandi. This is so as to preserve the character of IIT Mandi B.Tech. degree.
- 14.5 The semester exchange programs can only be undertaken with those institutes with whom IIT Mandi has an MoU for such visits.
- 14.6 Credits and grades earned during semester exchange visits will be converted to IIT Mandi equivalent credits and grades as per the Senate approved conversion criteria in each case.
- 14.7 Committee notified / authorized by the Senate confirm the equivalence of courses done during the semester exchange.

14.8 Attendance Rules for Semester Exchange Students

- 14.8.1 The students are permitted to register for the ongoing semester's courses at IIT Mandi, however, their attendance will count from the day they report to the institute. They need to fulfil the attendance criterion specified by the institute once they join the campus in person.
- 14.8.2 Since the students miss significant portion of the course before physically joining the course, instructors may impose 100% attendance, excluding medical absence.
- 14.8.3 The students may be provided with the video recordings of the classes

(if available/made available), link for online classes, or equivalent courses on NPTEL/SWAYAM etc. The student(s) may work with the instructor and FA to identify the online courses, if available. Students will be attending the lectures / watching the lectures online till they are back on campus.

14.8.4 The mid sem exams for those students must be conducted during the makeup slots. They have to attend the end semester exam, as per the regular schedule. Awarding midsem marks on pro-rata basis of end semester exam is prohibited.

References

1. Semester Away, 7th and 8th Senates (7.8, 8.8)
2. Internships in Foreign industries, 20th Senate (20.10)
3. Alto University Grade Conversion, <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Notf./2017/DS-7597-99>
4. ECTS to IIT Mandi, [https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/AR\(Academics\)/2013-14/325](https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/AR(Academics)/2013-14/325)
5. TU9 to IIT Mandi, [https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/AR\(Academics\)/2014-15/737](https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/AR(Academics)/2014-15/737)
6. Kyushu to IIT Mandi, <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Academics/Notf./2023-24/3482-86>
7. NTNU to IIT Mandi, <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Academics/Notf./2023-24/3487-91>
8. Attendance for semester exchange students, <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/SM-42/2024/833-41>

15 Conversion to Integrated Dual Degree

15.1 A B.Tech. student can opt for an Integrated M.Tech. Dual Degree in the same discipline by spending an extra year and completing relevant coursework.

15.2 Criteria and Application Process

15.2.1 The duration of the dual degree programme is 5 years from the time the student enters IIT Mandi. Both degrees (B.Tech and M.Tech.) will be awarded at the end

of the fifth year subject to satisfying necessary credit requirements. This duration (in general) will be +1 one for all others (Second Major, etc.)

15.2.2 All students that convert will be given MHRD HTRA in fifth year (or final year) which is at par with that given to students of M.Tech. program and will have to pay the fees as applicable to M.Tech. students.

15.2.3 The option to convert will be given at the end of the sixth semester (after grades are announced) till the beginning of the eighth semester (by course add / drop deadline).

15.2.4 A formal application with a supporting letter from the Faculty Advisor and School Chair must be made.

15.2.5 Conversion after add/drop in the eight semester will not be allowed.

15.2.6 Only students with no backlogs or incomplete grades are eligible.

15.2.7 Only students with a CGPA of 8 or better are eligible. For Honours students, the same CGPA rules apply even after conversion to receive a B.Tech. (Honours) + M.Tech. degree.

15.2.8 By the end of eight semester, all degree requirements to get B.Tech./B.Tech. (Honours) must be completed.

15.2.9 A criterion for getting HTRA is that students must have $CGPA \geq 8.00$ at the end of 8th semester or with valid GATE Score.

15.2.10 For students with CGPA less than 8 at the end of sixth or seventh semester:

15.2.10.1 Conversion is not possible.

15.2.10.2 Interested students are encouraged to appear for GATE for admission to the regular M.Tech. programme.

15.2.11 Extra Course Work

A total of 46 credits (5 or above level courses) must be completed (in addition to regular B.Tech./B.Tech. (Honours)/ Second Major degree requirements) to be awarded a dual degree M.Tech.

15.2.12 These credits are over and above 160 (for B. Tech), 163 (for BS) or others (as per the program).

15.2.13 PGP is must. MTP may be waived off as per the institute norms.

15.2.14 For specialization during M. Tech, schools will specify the number of credits under DC and DE.

15.2.15 Any extra course credits earned during B.Tech. program (5 or higher level) beyond what is required for the B.Tech./B.Tech. (Honours) degree (DC/DE provided they are in specialization basket), may be counted towards course credit requirements for M.Tech.

degree.

15.2.16 The credit requirement into coursework and dissertation is as per the individual streams of M.Tech. awarding the degree. However following requirements should also be fulfilled:

15.2.16.1 All course work must ideally be completed within the fifth year.

15.2.16.2 Core courses in the stream of specialization must be completed.

15.2.16.3 Credit required for dissertation in the stream of specialization must be completed.

15.2.16.4 The School / centre will specify the course work under specialization, subjected to the approvals of BoA and / or Senate.

15.2.16.5 In case the student decides to leave prior to completing the M.Tech. degree requirements, he/she may be awarded a B.Tech./B.Tech(Honours) degree provided all the necessary credit requirements are complete.

15.2.17 No reversal to B. Tech / B. Tech (Honors).

15.2.18 Rules for Honours degree would be as mentioned.

16 Conversion to M.S. Integrated Dual Degree

16.1 A B.S. student can opt for an Integrated M.S. Dual Degree in the same discipline by spending an extra year and completing relevant coursework.

16.2 Eligibility Criteria and Application Process

16.2.1 CGPA \geq 8.0, with no 'I'/'F' grade at the time of application

16.2.2 Application period would be from the end of 6th semester to the beginning of 8th semester. Conversion after add/drop in the 8th semester will not be allowed

16.2.3 A formal application with a supporting letter from the Faculty Advisor and School Chair must be made.

16.3 Extra Coursework

16.3.1 A total of 38 credits must be completed as per requirements of the program (in addition to regular B.S./B.S. (Honours) degree requirements).

16.3.2 Any extra course credits earned during B.S. program beyond what is required for the B.S./B.S. (Honours) degree, may be counted towards

course credit requirements for M.Tech. degree.

16.3.3 The Faculty Advisor School can use their discretion in deciding course work.

16.3.4 All course work must ideally be completed within the fifth year.

16.4 By the end of 8th semester, all degree requirements to get B.S./B.S. (Honours) must be completed. After the successful completion of the extra coursework, the student would be awarded a joint degree as B.S - M.S. in the respective discipline.

16.5 In case the student decides to leave prior to completing the M.S. degree requirements, he/she may be awarded a B.S./B.S. (Honours) degree provided all the necessary credit requirements are complete.

16.6 Rules for Honours degree would be as mentioned.

17 Conversion to M. Tech (R)

17.1 Extra 15-24 Credits of course work and 60 credits of research dissertation.

17.2 Rule of M.Tech-R will be applicable for the degree after UG degree requirement completion.

References

1. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Senate/2020/13431-35>
2. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Senate/2022/4066-69>
3. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Senate/2022/1115-18>
4. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/RO-01/2018/162-66>

18 Eligibility for Award of the UG Degree

18.1 B.Tech. Degree

A student should be declared to be eligible for award of the B.Tech. degree if he/she has:

- 18.1.1 Registered and successfully completed all the requirements as per the curriculum of the program.
- 18.1.2 Acquired a minimum of 160 credits satisfying all the course basket requirements and projects mentioned and completed all other compulsory requirements such as the Internship, DC, DE, FE etc. within the stipulated time as mentioned.
- 18.1.3 Satisfied the minimum residence requirement of eight (8) semesters. "Residence" implies being formally registered for academic work. Any time on a semester exchange at another institute/university, with the approval of the Dean (Academics), shall count towards this residence requirement.
- 18.1.4 Secured a minimum cumulative grade point average (CGPA) of 5.0 in passed subjects.
- 18.1.5 No dues to the Institute, Hostels, Libraries, NSS/NSO/H&T, Clubs, Dean (Student) office etc.
- 18.1.6 No disciplinary action is pending against him/her.

18.2 B.Tech. (Honours) Degree

- 18.2.1 B.Tech./B.S./B.Tech.-M.Tech. Students must complete 8-credits of MTP- 1 & MTP-2: Major Technical Project in their own (parent) discipline.
- 18.2.2 Student must do MTP-1 & MTP-2: Major Technical Project and DP-301P: Interactive Socio-Technical Practicum (ISTP) and obtain a grade of 'B' or above in these courses.
- 18.2.3 Student should not have received 'F' grade throughout the B.Tech. program.
- 18.2.4 Have a CGPA of 9 or more out of the total credits completed

OR

Have a CGPA of 8.0 or more out of the total credits completed along with either an original research article published/accepted in a prestigious Q1 journal

OR

Patent granted in relevant discipline (i.e 160 credits of B.Tech/BS + one Q1 Journal Article/Patent Granted

References

1. <https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Senate/2023/2067-71>
2. BS ordinance
3. R.28 B. Tech Ordinance
4. M. Tech and M. Sc ordinance
5. M. A ordinance
6. M. B. A ordinance

19 Award of Convocation Medals

The following medals are awarded during the Convocation Ceremony to the graduating UG students who fulfill the eligibility criteria

- 19.1 **President of India Gold Medal:** This award is for outstanding academic performance among the batch of B.Tech. / B.S. students graduating. It shall be awarded to the graduating student with the best overall academic record in the B.Tech. / B.S. program, with Honours Students given preference.
- 19.2 **Director's Gold Medal:** This award is for outstanding all-round proficiency. It shall be awarded to the graduating student with a good academic record and proven leadership and excellence in extracurricular activities in all the four years of the B.Tech./B.S. program.
- 19.3 **Institute Gold Medals:** This award is for outstanding academic performance among the students graduating in a specific academic discipline. It shall be awarded to the graduating student with the best academic record, in each B.Tech./B.S. discipline.
- 19.4 **Balasundaram Endowment Prize in German:** This award is for outstanding performance in the Minor in German Language from among the batch of B.Tech./B.S. students graduating and opting for the said minor. It shall be awarded to the graduating B.Tech./B.S. student with a Minor in German Language and having the best Grade Point Average in the courses comprising the minor.
- 19.5 **Rani Gonsalves Memorial Medal:** This award is for the female B.Tech./B.S. student who through her leadership and her exemplary accomplishments in academic and extracurricular activities, consistently

throughout her B.Tech./B.S., has advanced the status of women in B.Tech. / B.S. program.

- 19.6 **Institute Innovation Medal:** Following two medals as "Institute Innovation Gold Medal." and "Institute Innovation Silver Medal." will be conferred to the students. These medals will be given for demonstrating excellence in Innovation during their tenure at the Institute.
- 19.7 **Institute Medal for Sports Excellence:** Following two medals as "Institute Gold Medal for Sports Excellence." and "Institute Silver Medal for Sports Excellence." will be conferred to the students. Those have demonstrated excellence in Sports during their tenure at the Institute.
- 19.8 After the successful completion of the program, applications are invited from eligible students for the awards before the Convocation.
- 19.9 UG students pursuing Second Major, IDD, and other five-year programs shall be considered for Medals/Awards in their fifth year along with the students of the batch of graduating students. For example, the student of second major/IDD of 20XX batch will compete with 20XX+1 batch of graduating students.
- 19.10 A student must not have any major disciplinary action recorded against them at the time of selection or conferral of the Medal/Award. Students with pending institutional dues shall also not be eligible until all dues are cleared.
- 19.11 In cases where a disciplinary action is on record, a designated sub-committee shall be constituted to review the nature and severity of the disciplinary action. The sub-committee shall provide its recommendation regarding the eligibility of the student for the Medal/Award, which shall be placed before the competent authority for a final decision.
- 19.12 The Chairperson, Senate constitutes an Awards & Prizes Committee for every Convocation. The Committee evaluates all the applications received for the medals and recommends the awardees to the Senate.

References

1. 5th Senate (5.7)
2. 11th Senate (11.8(ii))
3. 18th Senate (18.9A)
4. Kiran Bala Award, 34th Senate (34.8)
5. Rani Gonsalves Award, 14th Senate (14.7)

20 Branch Change

There is no branch change option available at IIT Mandi. This facility has been discontinued with respect to B. Tech 2024 admitted batch.

21 Termination form UG Program

21.1 **Unsatisfactory Academic Performance:** A student is in good academic standing if he/she stays abreast of the credit requirement at any particular stage of his/her academic program and if his/her CGPA is at least the minimum required for graduation (5.0).

21.2 Any student who is not in good academic standing is performing unsatisfactorily or underperforming. Seriously unsatisfactory academic performance will attract strictures such as “Academic Warning” and “Academic Probation”, accompanied by conditions laid down by the Senate. If the student fails to meet these conditions, his/her program at IIT Mandi may be terminated prematurely.

21.3 A student will be placed on **Academic Warning** if, in any semester, any two of the following conditions hold:

- i. he/she fails to secure at least 15 credits
- ii. his/her SGPA is less than 5.0
- iii. his/her CGPA is less than 5.0

21.4 During the term of the Academic Warning, a student will not run for or hold any office concerning any student activity.

21.5 A student will be placed on Academic Probation if, at the conclusion of any semester, he/she attracts a second consecutive Academic Warning or if any two of the following conditions hold:

- i. he/she fails to secure at least 12 credits
- ii. his/her SGPA is less than 4.0
- iii. his/her CGPA is less than 4.0

21.6 A student on Academic Probation should sign an undertaking, countersigned by his/her parent, to the effect that his/her academic program will be terminated and he/she will cease to be a student of IIT Mandi if he/she fails

to fulfil the terms of the probation.

21.7 The terms of the probation shall be that, in the following semester:

- i. he/she shall secure at least 15 credits
- ii. his/her SGPA should be at least 5.0
- iii. any other special condition(s) laid down by the Senate

21.8 During the term of the Academic Probation, a student shall not run for or hold any office concerning any student activity

21.9 **Due to Non-Registration / Enrolment**

If the student does not register for courses / semester / reports at the institute till permitted dates of late fine registration, his/her registration from the program will be cancelled and the name will be struck off from the rolls of the Institute, without any further notice.

21.10 **Due to Absence**

If a student registered in the first year of the programme is continuously absent from the classes for more than three weeks without informing the Course Instructors, Faculty Advisor, the Instructors shall immediately bring it to the notice of school/centre chair, for informing the Academic Section. The names of such students shall be removed from the Institute rolls and such absence during first year will render the student ineligible for re-admission.

22 **Miscellaneous Points**

22.1 The date of initial registration is the date on which a student formally registers for a program for the first time. This date shall be considered as the date of joining the programs for all intents and purposes.

22.2 A student may be granted scholarship/medals/assistantship etc. as per the regulations specified by the Senate or BoG of the institute or Gol. The rules may be modified from time to time.

22.3 The procedure for Admissions shall be decided by MoE / Gol or their representatives.

22.4 In case all the reserved seats for SC / ST / PC category are not filled even with relaxed admission norms, the students in this category who satisfy certain minimum norms specified for this purpose may be offered

admission to one-year preparatory programme as per JoSAA norms. On successful completion of the preparatory course, these students may be offered direct admission against the unfilled quota of seats as provided for in the regulations.

- 22.5 The award of a Degree to an eligible candidate shall be made in accordance with the procedure laid down in the regulations.
- 22.6 A student admitted to IIT Mandi is governed by the rules and regulations of IIT Mandi and various sub bodies of IIT Mandi, such as hostel, student's gymkhana, academic rules etc.
- 22.7 Notwithstanding anything contained in various Ordinances, no regulations shall be made in contravention of the decision of the BoG or Senate of the Institute and/or the direction of the Government of India.
- 22.8 In special circumstances, Chairman Senate on behalf of Senate approve amendment, modification, inclusion or deletion of any of the rules in the ordinances, which are necessary for smooth operation of a program. All such changes shall be reported to the Senate in the next meeting.
- 22.9 Maximum duration of the program includes the period of semester leave, absence and different kinds of leaves permissible to a student.
- 22.10 Maximum duration for IDD Program is 7 years and 8 years for Second Major+IDD students.
- 22.11 In case of any dispute, difference of opinion in interpretation of Regulations these regulations or any other matter not covered in these regulations, the decision of the Chairman, Senate and / or Senate shall be final.

23 Power to Modify

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