



Academic Council
IIT MANDI

ACADEMIC DISCUSSION

B.Tech & B.S. 2023

POINTS OF DISCUSSION

- Total Credit Requirement
- Distribution of Credits
- Institute Core Courses
- ISTP, MTP, Research Projects
- Discipline Courses
- Electives
- Pass Fail & Audit Courses
- Semester Exchange
- Internships: Types, Approvals
- Honours Degree
- Minor Degree
- Backlog Courses
- Double Major & IDD
- Sources

Total Credit Requirement

- For graduating with a B.Tech degree (excluding B.Tech in Electrical Engineering & B.S. in Chemical Sciences), you need to complete at least 160 credits
- For graduating with a B.Tech in Electrical Engineering or B.S. degree in Chemical Sciences, you need to complete at least 161 or 163 credits respectively.

DISTRIBUTION OF CREDITS

B.Tech Credit Distribution

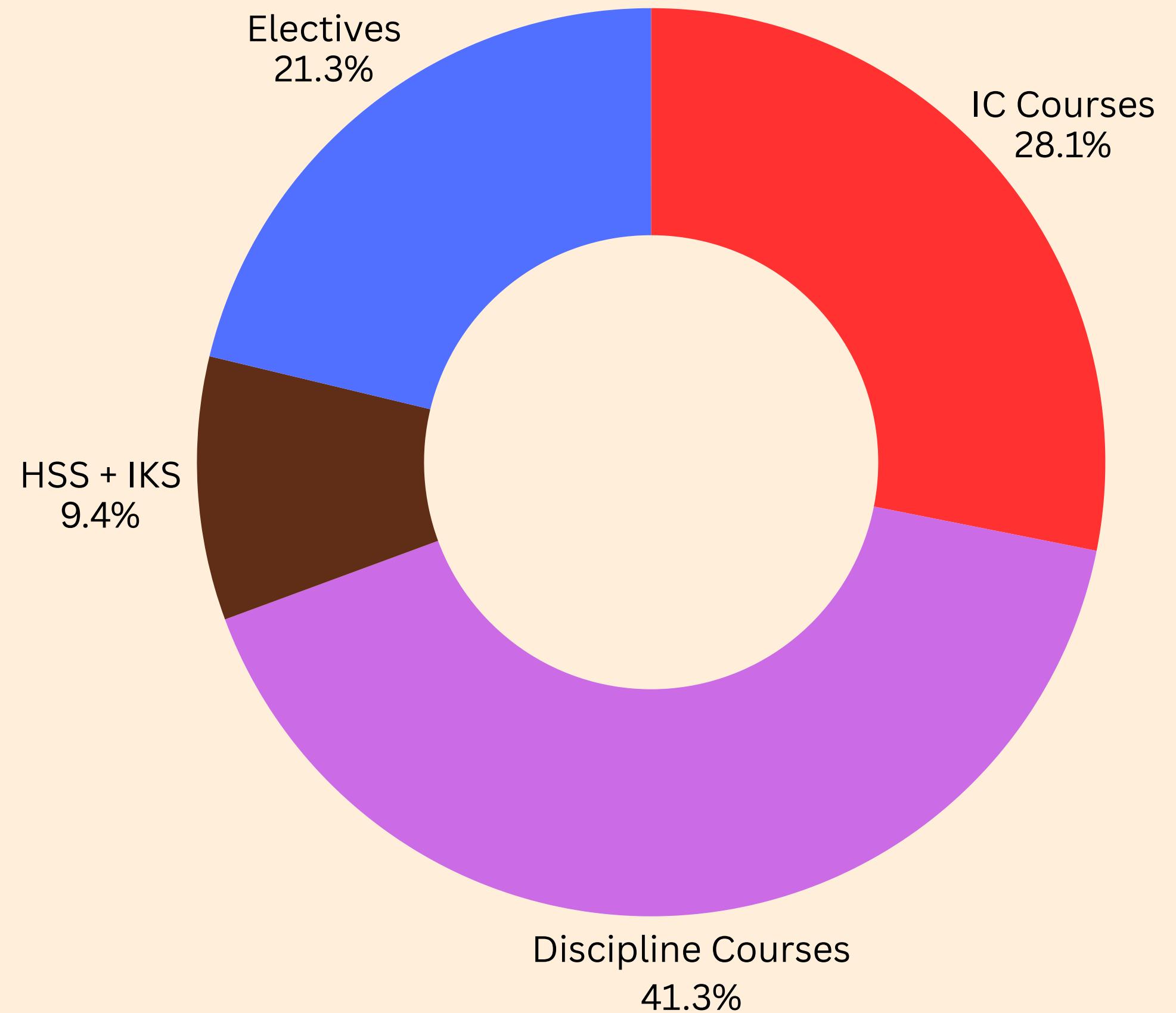
| Division | Sub-Division | Credits |
|-----------------|--------------------------|----------------|
| Institute Core | IC Compulsory | 39 |
| | IC Basket | 6 |
| | HSS | 12 |
| | Indian Knowledge System | 3 |
| Discipline | Discipline Core | 66 |
| | Discipline Electives | |
| Electives | Free Electives | 22 |
| | MTP + ISTP or Equivalent | 12 |
| Total | | 160 |

B.S.-CS Credit Distribution

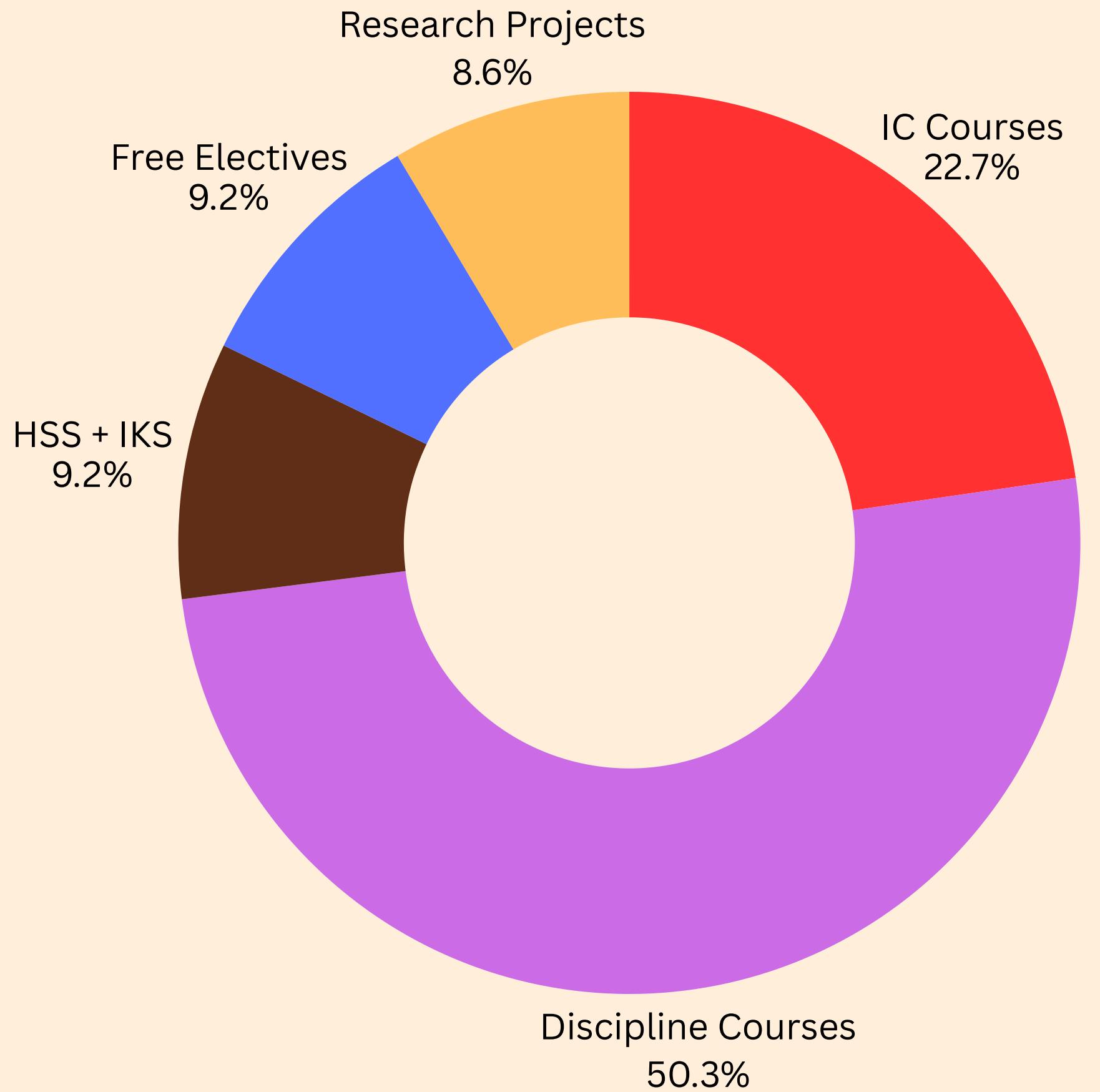
| Division | Sub-Division | Credits |
|-------------------|---|----------------|
| Institute Core | IC Compulsory | 31 |
| | IC Basket | 6 |
| | HSS | 12 |
| | Indian Knowledge System | 3 |
| Discipline | Discipline Core | 82 |
| | Discipline Electives | |
| Electives | Free Electives | 15 |
| Research Projects | Research Communication Projects or Equivalent | 14 |
| Total | | 163 |

NOTE: For EE branch, DC + DE is 72 & FE is 17, according to the latest curriculum

Distribution - B.Tech



Distribution-B.S.



Institute Core Courses

IC Compulsory Courses (B.Tech)

| Course Code | Course Name | Credits | Course Code | Course Name | Credits |
|-------------|---------------------------------------|---------|-------------|---------------------------------|---------|
| IC112 | Calculus | 2 | IC114 | Linear Algebra | 2 |
| IC113 | Complex Variables and Vector Calculus | 2 | IC115 | ODE & Integral Transforms | 2 |
| IC140 | Engineering Graphics for Design | 4 | IC102P | Foundations of Design Practicum | 4 |
| IC152 | Computing and Data Science | 4 | IC202P | Design Practicum | 3 |
| IC252 | Probability and Statistics | 4 | IC161 | Applied Electronics | 3 |
| IC272 | Machine Learning | 3 | IC161P | Applied Electronics Lab | 2 |
| IC010 | Internship | 2 | IC222P | Physics Practicum | 2 |
| Total | | | | | 39 |

IC Baskets

| Basket | Course Code | Course Name | Course Credits | Basket Credits Credits |
|--------|-------------|--|----------------|------------------------|
| IC-I | IC131 | Applied Chemistry for Engineers | 3 | 3 |
| | IC136 | Understanding Biotechnology and its Applications | 3 | |
| | IC230 | Environmental Science | 3 | |
| IC-II | IC121 | Mechanics of Particles and Waves | 3 | 3 |
| | IC240 | Mechanics of Rigid Bodies | 3 | |
| | IC241 | Material Science for Engineers | 3 | |
| | IC253 | Data Structures and Algorithms | 3 | |
| Total | | | | 6 |

IC Basket Compulsions

| Branch | Basket | Course Code | Course Name |
|------------------------|--------|-------------|--|
| Bio-Engineering | IC-I | IC136 | Understanding Biotechnology and its Applications |
| | IC-II | IC240 | Mechanics of Rigid Bodies |
| Civil Engineering | IC-I | IC230 | Environmental Science |
| | IC-II | IC240 | Mechanics of Rigid Bodies |
| CSE/DSE | IC-II | IC253 | Data Structures and Algorithms |
| Engineering Physics | IC-I | IC230 | Environmental Science |
| | IC-II | IC121 | Mechanics of Particles and Waves |
| Mechanical Engineering | IC-II | IC240 | Mechanics of Rigid Bodies |

IC Basket Compulsions

| Branch | Basket | Course Code | Course Name |
|---------------------------|--------|-------------|--|
| Chemical | IC-I | IC131 | Applied Chemistry for Engineers |
| | IC-II | IC121 | Mechanics of Particles and Waves |
| Mathematics and Computing | IC-I | IC136 | Understanding Biotechnology and its Applications |
| | IC-II | IC253 | Data Structures and Algorithms |
| Material Science | IC-I | IC131 | Applied Chemistry for Engineers |
| | IC-II | IC240 | Mechanics of Rigid Bodies |
| General Engineering | IC-I | IC230 | Environmental Science |
| | IC-II | IC240 | Mechanics of Rigid Bodies |

ISTP & MTP

- ISTP: Interactive Socio-Technical Practicum is a 4-credit 6th Semester practicum course that involves development of useful products and technologies that require an understanding of the socio-economic context in which they will be used.
- MTP (MTP-1 + MTP-2): Major Technical Project (BTech final year project) is a 3 (MTP-1) + 5 (MTP-2) credit course where students work on projects of their interest under the supervision of a faculty. This project could be outside the field of your discipline.
- Course code for MTP-1 is DP-498P; DP will be replaced by your respective program. For eg CS-498P, DS-498P, EE-498P and so on.

| | ISTP : ✓ MTP : ✓ | ISTP : X MTP : ✓ | ISTP : ✓ MTP : X | ISTP : X MTP : X | ISTP : ✓ MTP -1: ✓ MTP-2: X |
|----|---------------------|---------------------|---------------------|---------------------|-----------------------------------|
| DE | x | x | x + 8 | x + 8 | x + 5 |
| FE | y | y + 4 | y | y + 4 | y |

MTP

- If a student opts to do MTP, but obtain grade point 6 or below in MTP-1 (XX498P), he/she will not be allowed to continue on to the second stage of MTP-2 (XX499P). The grade earned by the student in MTP-1 (XX498P) will be included in the grade sheet and transcript. The student will have to make up for the remaining MTP credits by taking 5 credits from the Discipline Electives basket in next semester.
- 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.
- If a student has earned a grade point of 7 ('B-' grade) or above in MTP-1 (XX498P), they will be required to continue on to MTP-2 (XX499P).
- However, if such a student wishes not to pursue MTP-2 (XX499P), he/she may appeal to Dean (Academics) through the Faculty Advisor and the guide(s), with strong justification from both student and guide(s). Since huge efforts are put by the guide also(s) in MTP, dropping MTP-2 (XX499P) is highly discouraged and rarely permission will be given for dropping MTP-2.
- If allowed to drop MTP-2 (XX499P), the grade earned by the student in MTP-1 (XX498P) will be included in the grade sheet and transcript. Then the student will have to make up for the remaining MTP credits by taking 5 credits from the Discipline Electives basket.
- If a student opts to do MTP completely in a different discipline, they would be awarded 8 credits from Free Elective basket.

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.
- Post-Graduate Project (PGP):
 - This 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 report.
- 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.
- Any discipline elective course, beyond the minimum limit may also be counted as free elective.

HSS & IKS

- 12 credits can be completed by taking any HSS course
- HSS courses cover various domains such as -
 - Sociology
 - Economics
 - Literature
 - Entrepreneurship
- A maximum of 20 HSS credits can count towards the 160 credits required for the BTech degree
- This doesn't mean you can't do more than 20 HSS credits! You are free to do more than 20 credits that will count outside the 160 credits requirement
- One course on Indian Knowledge System (worth 3 credits) is compulsory for everyone.

Discipline Courses - B.Tech

1. Discipline Core

- These are compulsory courses related to your major degree
- The number of credits may vary depending on your branch
- These courses start from your 3rd semester
- There could be some overlap among branches

2. Discipline Electives

- These are courses related to your major degree, but you would have a choice among a pool of elective courses
- The number of credits again vary depending on your branch

Detailed Curriculum Folder: [Link](#)

DC-DE Split

| Discipline | BS CS | BioE | Civil | CSE | DSE | EE | EP | GE | MSE | MnC | ME | ME VLSI |
|------------|-------|------|-------|-----|-----|----|----|----|-----|-----|----|---------|
| DC | 59 | 42 | 49 | 38 | 33 | 52 | 37 | 36 | 45 | 51 | 50 | 54 |
| DE | 23 | 24 | 17 | 28 | 33 | 20 | 29 | 30 | 21 | 15 | 16 | 12 |
| Total | 82 | | 66 | | 72 | | | 66 | | | | |

B.S. in Chemical Sciences

| Course Code | Course Name | Credits | Course Code | Course Name | Credits |
|-------------|--|---------|-------------|--|---------|
| CY301 | Principles and Theories of Physical Chemistry | 3-0-0-3 | CY512P | Physical Chemistry Laboratory | 0-0-6-3 |
| CY302 | Principles of Organic Chemistry | 3-0-0-3 | CY533P | Inorganic Chemistry Laboratory | 0-0-6-3 |
| CY303 | Fundamentals of Inorganic Chemistry | 3-0-0-3 | CY532 | Photochemistry and Pericyclic Reactions | 3-0-0-3 |
| CY201P | Physical Chemistry Laboratory | 0-0-4-2 | CY534 | Chemistry of Transition Elements | 3-0-0-3 |
| CY401 | Introduction to Quantum Chemistry and Molecular Spectroscopy | 3-0-0-3 | CY511 | Group Theory and Spectroscopy | 3-0-0-3 |
| CY304 | Fundamental Analytical Chemistry | 3-0-0-3 | CY531P | Organic Chemistry Laboratory | 0-0-6-3 |
| CY202P | Organic Chemistry Laboratory | 0-0-4-2 | CY514 | Chemical and Statistical Thermodynamics | 3-0-0-3 |
| CY203P | Inorganic Chemistry Laboratory | 0-0-4-2 | CY535 | Introduction to Organometallic Chemistry | 3-0-0-3 |
| CY531 | Organic Reactions and Mechanisms | 3-0-0-3 | CY513 | Chemical Kinetics and Reaction Dynamics | 3-0-0-3 |
| CY533 | Chemistry of Main Group Elements | 3-0-0-3 | CY504 | Heterocyclic Chemistry | 2-0-0-2 |
| CY512 | Advanced Quantum Chemistry | 3-0-0-3 | Total | | 62 |

BioEngineering

| Course Code | Course Name | Credits | Course Code | Course Name | Credits |
|-------------|------------------------------------|---------|-------------|-------------------------------------|---------|
| BE201 | Cell Biology | 3-0-2-4 | BE304 | Bioinformatics | 3-0-2-4 |
| BE202 | Biochemistry and Molecular Biology | 3-0-2-4 | BE305 | Bioethics and Regulatory Affairs | 1-0-0-1 |
| BE203 | Enzymology and Bioprocessing | 3-0-2-4 | BE306 | Fundamentals of Genetic Engineering | 3-1-0-4 |
| BE301 | Biomechanics | 3-0-2-4 | BE309 | Biosensing & Bioinstrumentation | 3-0-2-4 |
| BE308 | Introduction to Biomanufacturing | 3-0-2-4 | BE310 | Biomaterials | 3-0-2-4 |
| BE303 | Applied Biostatistics | 3-0-2-4 | BEXXX | Reverse Engineering | 0-0-2-1 |
| Total | | | | | 42 |

Civil Engineering

| Course Code | Course Name | Credits | Course Code | Course Name | Credits |
|-------------|--|---------|-------------|--|---------|
| CE201 | Surveying Traditional and Digital | 2-0-4-4 | CE352 | Transportation Engineering | 3-0-0-3 |
| CE251 | Hydraulics Engineering | 3-0-0-3 | CE352P | Transportation Engineering Lab | 0-0-2-1 |
| CE252 | Geology and Geomorphology | 2-0-2-3 | CE354P | Construction Materials Lab | 0-0-2-1 |
| CE202 | Introduction to Civil Engineering Profession | 1-0-0-1 | CE401 | Design of Steel Structures | 2-1-0-3 |
| CE203 | Construction Materials | 3-0-0-3 | CE403 | Water and Wastewater Engineering | 3-0-0-3 |
| CE301 | Strength of Materials and Structures | 3-0-0-3 | CE404 | Analysis of Structures | 3-0-0-3 |
| CE301P | Strength of Materials and Structures Lab | 0-0-2-1 | CE402 | Geotechnical Engineering II | 3-0-0-3 |
| CE302 | Geotechnical Engineering I | 3-0-0-3 | CE303 | Water Resources Engineering | 3-0-0-3 |
| CE302P | Geotechnical Engineering Lab | 0-0-2-1 | CE351 | Design of Reinforced Concrete Structures | 2-1-0-3 |
| CE304P | Hydraulics Engineering Lab | 0-0-2-1 | CE353P | Civil Engineering Drawing | 0-0-2-1 |
| CE305P | Environmental Engineering Lab | 0-0-2-1 | CEXXX | Reverse Engineering | 0-0-2-1 |
| Total | | | | | 49 |

Computer Science Engineering

| Course Code | Course Name | Credits | Course Code | Course Name | Credits |
|-------------|--|---------|-------------|-------------------------|---------|
| CS214 | Computer Organization | 3-0-2-4 | CS303 | Software Engineering | 3-0-2-3 |
| CS208 | Mathematical Foundations of Computer Science | 3-1-0-4 | CS305 | Artificial Intelligence | 3-0-0-3 |
| CS302 | Paradigms of Programming | 3-0-2-4 | CS313 | Computer Networks | 3-0-2-4 |
| CS304 | Formal Language and Automata Theory | 3-0-0-3 | CS212 | Design of Algorithms | 3-0-2-4 |
| CS309 | Information Systems and Databases | 3-0-2-4 | CS312 | Operating Systems | 3-0-2-4 |
| CS213 | Reverse Engineering | 0-0-2-1 | Total | | 38 |

Data Science Engineering

| Course Code | Course Name | Credits | Course Code | Course Name | Credits |
|-------------|--|---------|-------------|--------------------------------------|---------|
| DS201 | Data Handling and Vizualisation | 2-0-2-3 | DS411 | Optimization for Data Science | 3-1-0-4 |
| DS301 | Mathematical Foundations of Data Science | 3-1-0-4 | CS305 | Artificial Intelligence | 3-0-0-3 |
| DS302 | Computing Systems for Data Processing | 3-0-2-3 | DS412 | Matrix Computations for Data Science | 3-0-2-4 |
| DS313 | Statistical Foundations of Data Science | 3-0-2-4 | DS413 | Introduction to Statistical Learning | 3-0-2-4 |
| DS404 | Information Security and Privacy | 3-0-0-3 | CS213 | Reverse Engineering | 0-0-2-1 |
| Total | | | | | 33 |

Electrical Engineering

| Course Code | Course Name | Credits | Course Code | Course Name | Credits |
|-------------|---------------------------------|-------------|-------------|---|----------|
| EE261 | Electrical Systems Around Us | 3-0-3-5 | EE211 | Analog Circuit Design | 3-0-2-4 |
| EE260 | Signals and Systems | 2.5-0.5-0-3 | EE304 | Communication Systems | 3-0-2-4 |
| EE210 | Digital System Design | 3-0-2-4 | EE301 | Control Systems | 3-0-2-4 |
| EE203 | Network Theory | 2.5-0.5-0-3 | EEXXX | Power and Energy Systems | 3-1-0-4 |
| EE311 | Device Electronics | 3-0-0-3 | EE314 | Digital Signal Processing* | 3-0-0-3* |
| EE202 | Electromagnetic Theory | 3-0-0-3 | EE326 | Computer Organization & Processor Architecture Design | 3-0-2-4 |
| EE231 | Measurement and Instrumentation | 2-0-2-3 | EEXXX | Reverse Engineering | 0-0-2-1 |
| EE201 | Electro-Mechanics | 2.5-0.5-2-4 | | Total | 52 |

Engineering Physics

| Course Code | Course Name | Credits | Course Code | Course Name | Credits |
|-------------|--|---------|-------------|--------------------------------|---------|
| EP321 | Foundations of Electrodynamics | 3-0-0-3 | EP402P | Engineering Physics Practicum | 1-0-5-4 |
| EP301 | Engineering Mathematics 2 | 3-1-0-4 | PH502 | Photonics | 3-0-0-3 |
| PH301 | Quantum Mechanics and Applications | 3-0-0-3 | EP403 | Physics of Atoms and Molecules | 3-0-0-3 |
| PH302 | Introduction to Statistical Mechanics | 3-0-0-3 | EP401P | Engineering of Instrumentation | 1-0-5-4 |
| EE311 | Device Electronics for Integrated Circuits | 3-0-0-3 | PH501 | Solid State Physics | 3-0-0-3 |
| EP302 | Computational Methods for Engineering | 2-1-0-3 | EPXXX | Reverse Engineering | 0-0-2-1 |
| Total | | | | | 37 |

General Engineering (Robotics and AI)

| Course Code | Course Name | Credits | Course Code | Course Name | Credits |
|-------------|---------------------------------|---------|-------------|--|---------|
| EE201 | Electromechanics | 3 | ME309 | Theory of Machines | 4 |
| EE261 | Electrical System Around Us | 3 | AR501 | Robot Kinematics, Dynamics and Control | 4 |
| IC241 | Material Science for Engineers | 3 | AR503 | Mechatronics | 3 |
| IC253 | Programming and Data Structures | 3 | AR504 | Robot Programming | 3 |
| DS201 | Data Handling and Vizualization | 3 | ME305 | Design of Machine Elements | 4 |
| EE301 | Control Systems | 3 | Total | | 36 |

General Engineering (Communication Engineering)

| Course Code | Course Name | Credits | Course Code | Course Name | Credits |
|-------------|----------------------------------|---------|-------------|---------------------------------|---------|
| ME100 | Reverse Engineering | 1 | EE203 | Network Theory | 3 |
| EE261 | Electrical System Around Us | 3 | IC253 | Programming and Data Structures | 3 |
| EE231 | Measurement and Instrumentation | 3 | EE260 | Signals and Systems | 3 |
| EE304 | Communication Theory | 3 | CS313 | Computer Networks | 4 |
| EE201 | Electromechanics | 3 | EE314 | Digital Signal Processing | 4 |
| DS404 | Information Security and Privacy | 3 | EE202 | Electromagnetic Theory | 3 |
| Total | | | | | 36 |

General Engineering (Mechatronics)

| Course Code | Course Name | Credits | Course Code | Course Name | Credits |
|-------------|-----------------------------|---------|-------------|--|---------|
| EE201 | Electromechanics | 3 | ME309 | Theory of Machines | 4 |
| EE261 | Electrical System Around Us | 3 | EE326 | CO and Processor Architecture Design | 4 |
| EE260 | Signals and Systems | 3 | AR503 | Mechatronics | 3 |
| EE211 | Analog Circuit Design | 3 | EE311 | Device Electronics for Integrated Circuits | 3 |
| ME206 | Mechanics of Solids | 3 | ME305 | Design of Machine Elements | 4 |
| EE301 | Control Systems | 3 | ME100 | Reverse Engineering | 1 |
| Total | | | | | 36 |

Material Science and Engineering

| Course Code | Course Name | Credits | Course Code | Course Name | Credits |
|--------------|---|---------|-------------|--|-------------|
| MT-201 | Physics of Solids | 3-0-0-3 | MT-206 | Extraction and Materials Processing | 3-0-2-4 |
| MT-203 | Material Synthesis and Characterisation | 2-0-2-4 | ME-206 | Mechanics of Solids | 2.5-0.5-0-3 |
| MT-301 | Phase Transformations | 3-0-0-3 | MT-302 | Transport Phenomena | 3-0-0-3 |
| MT-204 | Thermodynamics and Kinetics and Materials | 3-0-0-3 | MT-303 | Computational Materials Science | 3-0-2-4 |
| MT-304 | Mechanical Behaviour of Materials | 3-0-2-4 | ME-212 | Product Realization (Manufacturing) Technology | 2-0-2-3 |
| MT-205 | Functional Properties of Materials | 3-0-2-4 | ME-100 | Reverse Engineering | 0-0-2-1 |
| MT-202 | Quantum Mechanics and Applications | 3-0-0-3 | IC-240 | Mechanics of Rigid Bodies | 3-0-0-3 |
| Total | | | | | 45 |

Mathematics and Computing

| Course Code | Course Name | Credits | Course Code | Course Name | Credits |
|-------------|--|-------------|-------------|-------------------------------------|---------|
| CS208 | Mathematical Foundations of Computer Science | 3-1-0-4 | MA310 | Matrix Computation and Lab | 3-0-2-4 |
| MA211 | Ordinary Differential Equations | 3-1-0-4 | CS304 | Formal Language and Automata Theory | 3-0-0-3 |
| MA220 | Partial Differential Equations | 3-1-0-4 | CS312 | Design of Algorithms | 3-0-2-4 |
| CS214 | Computer Organisation | 3-0-2-4 | MA311 | Mathematical Modelling | 3-0-0-3 |
| MA210 | Real and Complex Analysis | 2.5-0.5-0-3 | MA323P | Applied Databases Practicum | 0-0-3-2 |
| MA221 | Numerical Analysis | 3-1-0-4 | MA321 | Numerics of Differential Equation | 3-0-2-4 |
| MA222 | Applied Linear Programming | 3-1-0-4 | MA322 | Applied Graph Theory | 3-0-0-4 |
| Total | | | | | 51 |

Mechanical Engineering

| Course Code | Course Name | Credits | Course Code | Course Name | Credits |
|-------------|------------------------------------|---------|-------------|-----------------------------|---------|
| EE261 | Electrical Systems Around Us | 3-0-0-3 | ME308 | Manufacturing Engineering 1 | 3-0-0-3 |
| ME212 | Product Manufacturing Technologies | 2-0-2-3 | ME309 | Theory of Machines | 4-0-0-4 |
| ME213 | Engineering Thermodynamics | 3-0-0-3 | ME310 | System Dynamics and Control | 3-0-0-3 |
| ME205 | Machine Drawing | 1-0-3-3 | ME311P | Design Lab 1 | 0-0-2-1 |
| ME206 | Mechanics of Solids | 3-0-0-3 | ME312P | Design Lab 2 | 0-0-2-1 |
| ME210 | Fluid Mechanics | 3-0-0-3 | ME210P | Fluid Mechanics Lab | 0-0-2-1 |
| ME303 | Heat Transfer | 3-0-0-3 | ME315 | Manufacturing Engineering 2 | 3-0-0-3 |
| ME305 | Design of Machine Elements | 3-1-0-4 | ME303P | Heat Transfer Lab | 0-0-2-1 |
| ME307 | Energy Conversion Devices | 3-0-0-3 | ME100 | Reverse Engineering | 0-0-2-1 |
| IC241 | Material Science for Engineers | 3-0-0-3 | | Total | 50 |

Microelectronics and VLSI

| Course Code | Course Name | Credits | Course Code | Course Name | Credits |
|-------------|---|-------------|-------------|-------------------------------|---------|
| EE260 | Signals and Systems | 2.5-0.5-0-3 | VL311 | CMOS Processing and Practicum | 3-0-2-4 |
| EE210 | Digital System Design and Practicum | 3-0-2-4 | VL402 | RF IC Design | 3-0-0-3 |
| EE203 | Network Theory | 2.5-0.5-0-3 | VLXXX | Electronic System Packaging | 3-0-0-3 |
| VLXXX | Semiconductor Devices for IC'S | 3-0-0-3 | VL404 | CMOS Analog IC Design | 3-0-2-4 |
| EE301 | Control Systems | 3-0-2-4 | VL403 | CMOS Digital IC Design | 3-0-2-4 |
| EE202 | Electromagnetic Theory and Transmission Lines | 3-0-0-3 | VL401 | RTL Design and Verification | 2-0-2-3 |
| EE326 | Computer Organization and Design | 3-0-2-4 | VL405 | Design for Testability | 3-0-2-4 |
| EE211 | Analog Circuit Design | 3-0-2-4 | VLXXX | Reverse Engineering | 0-0-2-1 |
| Total | | | | | 54 |

Free Electives

- Any course which you can take in the institute can be counted towards your FE
- Not just a complete course, but the partial remains of overflowing credits from some other baskets can also count towards FE, making FE like a SINK
 - Example 1: Let's say you took both IC240 - Mechanics of Rigid Bodies and CS202 - Data Structures and Algorithms from IC - II basket. One course would count towards IC requirements (the compulsory one) and the other would count under FE.
 - Example 2: If you wish to do more than 12 credits under HSS, the remaining credits would count under FE (till it isn't 20).
 - Example 3: If you wish to do more DE courses than the specified limit of your branch, again, the extra credits would count under FE.
 - Example 4: If you do an internship that is longer than the minimum requirement of 6 weeks, then the extra credits go to FE.
 - Example 5: If you tried to count up some courses for Minor, they go to FE.

Pass/Fail Courses

Grades are Pass (P) or Fail (F)

The grades are binary in both of them. These won't affect your CGPA.

P/F Courses count towards the B.Tech requirement & contribute to the Free Electives Basket.

A maximum of 9 P/F credits can be taken and not more than 6 in a given semester (excl. SemLong Intern)

- P/F credits can be used for -
 - a. Semester Internship
 - b. Self Study Courses (via NPTEL, SWAYAM)
 - c. Research work/project under a professor of IIT Mandi, in Industry or Academia

- Courses offered at IIT Mandi:
 - Must declare the course as P/F at the beginning of the semester.
 - 'P' grade will be awarded if student obtains the minimum passing grade 'D'

Audit Courses

Grades are Audit Pass (AP) or Audit Fail (AF)

Audit Courses do not count towards B.Tech requirements.

No limit on taking Audit courses in B. Tech

- Audit courses are useful to include any workshops, conferences, etc that you have attended, on your BTech transcript

Students will have the option to Add/Drop an audit course upto 2 weeks after the normal Add/Drop date for the semester

NOTE

- The credit limit for a semester ranges from a minimum of 12 credits to 22 credits.
- However, AD Courses can increase the credit limit to 25 credits in order to meet up with the degree requirements.
- If a student goes for a vacation semester or a semester long internship, then the minimum credit limit for the semester can be relaxed to 9 credits.
- If you want to take more than 25 credits, then you may take permission from AD Courses before the add/drop period.

Course List for Even Semester 2026: [Link](#) (Educational Access)

Semester Exchange

- IIT Mandi has signed various MoUs with national and international institutes.
- UG students can visit these institutes in their 5th - 7th semesters (at most 2 contiguous semesters).
- Shortlisting is solely done on the basis of your CGPA at the time of application.
- Students will not have to pay any fees to the host institute, but any cost for travel, stay (hostel), food, etc must be borne by students.
- Scholarships may be provided to some students by some host institutes.
- Students usually prefer going to a Semester Exchange because of the following:
 - Exploring/pursuing courses not offered at IIT Mandi that interest you
 - Learning about the culture of a new country
 - Traveling & tourism

| Colleges with an active MoU with IIT Mandi as of December'25 | | | |
|---|--|--|---|
| TU Munich | TU Dresden | TU Darmstadt | TU Braunschweig |
| Kyushu University, Japan | National University Corporation, Japan | Chung Yuan Christian University (CYCU), Taiwan | Missouri University of Science and Technology, US |
| University of Agder, Norway | Karlsruhe Institute of Technology, Germany | RWTH Aachen, Germany | Leibniz University, Hannover |

Semester Exchange

The Senate approved the proposal for the management of attendance for students going for the International Semester Exchange Program.

- The students are permitted to register for ongoing semester's courses, 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.
- 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.
- The mid sem exams for those students need to be conducted during the makeup slots. They have to attend the end semester exam, as per the regular schedule.

For TU9 & European Colleges

| ECTS Grades | IIT Mandi Grades |
|--|------------------|
| A | A |
| B | A- |
| C | B |
| D | B- |
| E | C |
| FX | F |
| F | F |
| 1.5 ECTS credit is equivalent to 1 IIT Mandi Credit. | |

Semester Exchange

- 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.
- The committee notified/authorized by the Senate confirms the equivalence of courses taken during the semester exchange.
- Since the students miss significant portion of the course before physically joining the course, instructors may impose 100% attendance, excluding medical absence

For Kyushu, Japan

| Kyushu University Grades | IIT Mandi Grades |
|--------------------------|------------------|
| S (4) | A |
| A (3) | B |
| B (2) | C |
| C (1) | D |
| F (0) | F |

1 Kyushu University credit is equivalent to 1 IIT Mandi Credit.

Internships (2 Month)

- It is compulsory for all students to do an internship of at least 6 weeks duration in or outside India.
- It is worth 2 credits and to be done after your 5th semester. This will count as P/F for IC-010 under Semester-8 credits & also towards the credit limits of the semester.
- Internships are usually of 3 types -
 - Industrial - Internships that offer industrial experience
 - Research - Internships that are research-oriented, in industry or academia
 - Academic - Internships under professors of other institutes
- On-campus internships are usually industrial internships, whereas students look for opportunities off-campus for research and academic internships in prestigious institutes.
- This internship needs to be completed before the commencement of the final semester.
- You need not register for this course exclusively.
- The two credits for the mandatory industrial internship are only given at the sole judgment of the respective faculty advisor. Students are advised to get their faculty advisor's consent before applying for internships. This is particularly important for general/non-core company.

Semester Long Internship

- Similar to a 2 month internship, you can do this internship in the industry or academia inside or outside India
- A semester internship gives more extended exposure and is quite useful for your career growth
- A minimum credit limit requirement of 105 credits by the end of 5th semester might be imposed by some FA's if your on-site internship is in 6th semester just to ensure you meet up the degree requirements. There is no restriction on the minimum credit requirements before going to a semester-long internship by CnPC.
- There are also opportunities to do an semester internship in programmes like MITACS
- Semester Internship could be of 2 types
 - Semester Long Onsite Internships
 - Semester Long Remote Internships
- Projects under IIT Mandi Faculties cannot count toward internships credits.

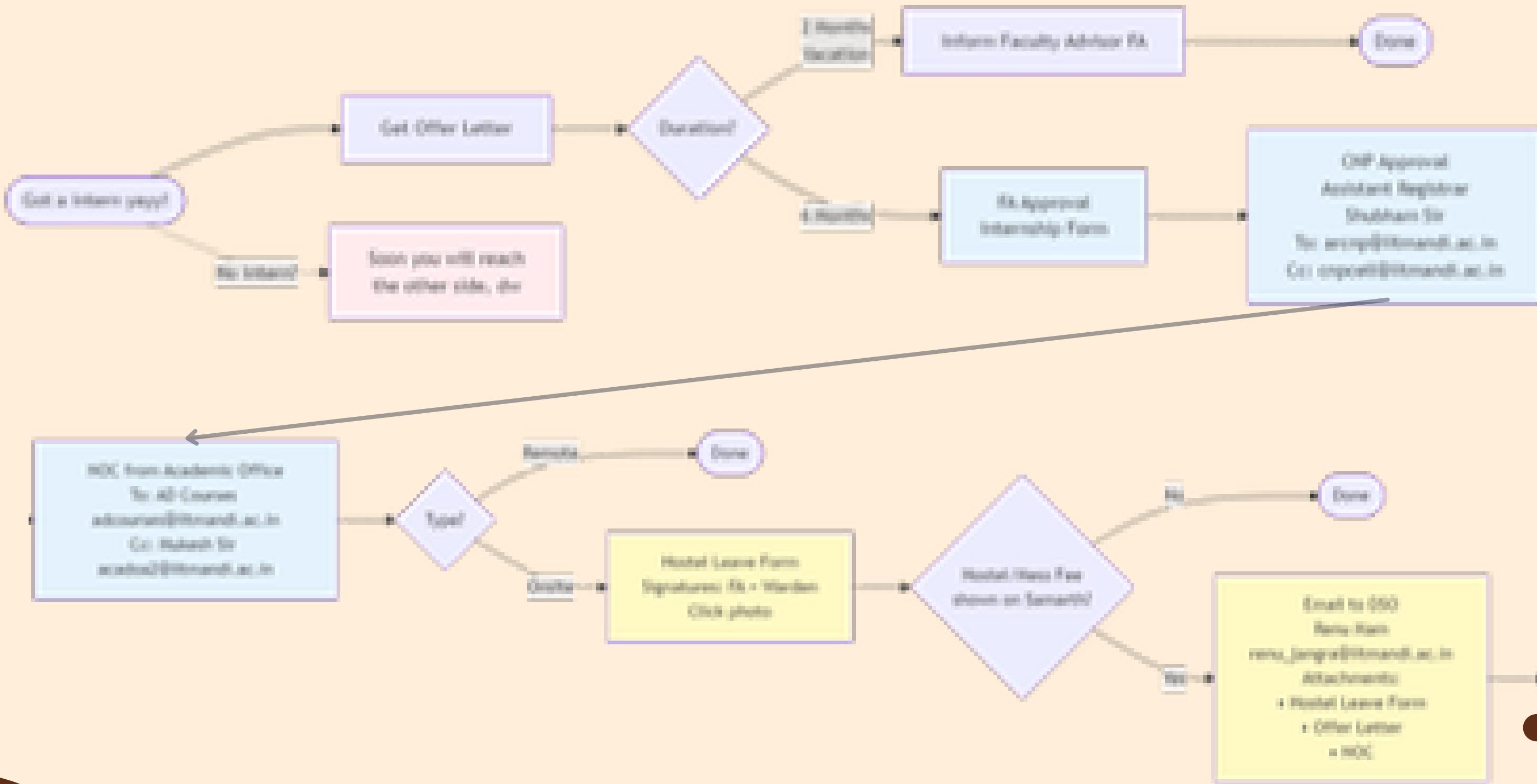
Semester Long Remote Internships

- This option allows the student to stay at IIT Mandi and opt for certain courses along with managing the internship
- Semester long remote internships are worth 6 P/F FE credits & could be done in your 6th, 7th or 8th semesters. It should be of a minimum 14 weeks.
- Students can do a maximum of 9 credits worth courses along with 6 credits of online internship
- You have to register for the course DP-396P, where DP is replaced by branch specific codes, for eg. CS-396P, DS-396P, EE-396P and so on.
- (Most of the 6 month internships are of 20 weeks, so you get 2 credits of IC-010 & 6 P/F FE credits of DP-396P).
- You need to obtain approval from your Faculty Advisor (FA), after which you must request a No Objection Certificate (NOC) from the Academic Section.
- The NOC should be obtained before the add/drop deadline of the semester in which you are undertaking the internship.

Semester Long Onsite Internships

- Semester long onsite internships are worth 9 P/F FE credits.
- This could be done in your 6th or 7th semesters. For 8th semester onsite internships, special approval of Dean Academics is required.
- It should be of minimum 14 weeks
- Students are not permitted to do any offline/online courses during the onsite internship period.
- You have to register for the course DP-399P, where DP is replaced by branch specific codes, for eg. CS-399P, DS-399P, EE-399P and so on.
- (Most of the 6 month internships are of 20 weeks, so you get 2 credits of IC-010 & 9 P/F FE credits of DP-399P).
- You need to obtain approval from your Faculty Advisor (FA), after which you must request a No Objection Certificate (NOC) from the Academic Section.
- The NOC should be obtained before the add/drop deadline of the semester in which you are undertaking the internship.

Approvals & Procedures for Internship



Faculty Advisor Email-IDs

| Branch Name | FA Email ID | Branch Name | FA Email ID |
|----------------------------------|--|-----------------------------------|--|
| Chemical Sciences | bhaskarmondal@iitmandi.ac.in | Engineering Physics | nirmalya@iitmandi.ac.in |
| Bio Engineering | baskar@iitmandi.ac.in | General Engineering | gajendra@iitmandi.ac.in |
| Civil Engineering | vivekgupta@iitmandi.ac.in | Materials Science and Engineering | rahul@iitmandi.ac.in |
| Computer Science and Engineering | varunkumar@iitmandi.ac.in | Mechanical Engineering | dsachan@iitmandi.ac.in |
| Data Science and Engineering | dineshsingh@iitmandi.ac.in | Mathematics & Computing | muslim@iitmandi.ac.in |
| Electrical Engineering | moumita@iitmandi.ac.in | Microelectronics & VLSI | robin@iitmandi.ac.in |

Internship Form: [Link](#)

Grading based on Company Feedback Process

- The FA can choose the scheme of evaluation for internship credit which is Pass/Fail.
- If a company shares negative feedback due to the underperformance of the student throughout the internship, then the following steps would be taken:
 - The company and students' feedback form will be considered before validating the company's remarks.
 - A committee, including FA, Advisor CnP / TnI, Dean Academics/representative, and designated CnP coordinators, will be formed to investigate the cases.
 - If a student's work is insufficient, he will be given partial or no credits.
- Internship drop is allowed before mid-semester in case of stressed or negative feedback from students on discontinuation, which will be evaluated accordingly.

Honours Degree

Honours

Eligibility for Award of the B.Tech. (Honours), B.S (Honours) Degree

- 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.
- B.Tech./B.S./B.Tech.-M.Tech. Students must complete 8-credits of DP498P & DP499P: Major Technical Project 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.
- Student should not have received an ‘F’ grade throughout the program.
- On fulfilling the above relevant requirements, student can obtain the Honours degree by satisfying either of the modes below:
 - Mode A : Have a CGPA of 8.5 or more out of the total credits completed
 - Mode B : 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 SCI journal or Patent granted in relevant discipline (i.e 160 credits of B.Tech/BS + one Q1 SCI Journal (Q1 at the time of submission/acceptance).

Article/Patent Granted as per guidelines below:

“Incase of student is not eligible for Honours degree and he/she has accepted/published research article (SCI Journal) on the recommendation of MTP evaluation Committee. The Committee may recommend for additional work during MTP-1 evaluation and can be graded by school/centre committee.”

Honours degree would be awarded as follows -

- For B.Tech./B.S. students: B.Tech. (Honours) / B.S. (Honours) in
- For IDD students: B.Tech. (Honours) and M.Tech. / B.S. (Honours) and M.S.
- For B.Tech. Double Major students : B.Tech. (Honours) With Second Major in

Guidelines for considering Journal articles/Patent granted:

- Article should be submitted and accepted during student registration in 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.
- Research article/patent should be published with IIT Mandi affiliation.
- Student should be the first author of the journal article. In case of patent granted the student should be one of the main inventors as declared by other co-inventors.
- Same research article/patent will not be considered for academic requirements by more than one student.

Notification:

[https://insite.iitmandi.ac.in/circulars/show.php?
ID=IITMandi/Acad/Senate/2023/2067-71](https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Senate/2023/2067-71)

Minor Degree

Minor Degree

- A minor is intended for a student to gain expertise in an area outside his/her major B.Tech. discipline. The area of the Minor must be different from the Major discipline of the student.
- A specialist basket of at least 3 courses is identified for each Minor.
- In order to successfully complete a Minor, a student needs to take atleast 9 credits (credit count may differ based on minor) with a minimum CGPA of 7.0 out of the courses defined in that Minor basket.
- At present, the institute offers a total of 15 different minor programs.
- All Courses counting towards any Minor will go to the FE Basket.
- 1 Course can contribute to not more than 1 Minors.

Minors Offered

| | |
|---|---|
| Minor in Computer Science Engineering | Minor in Management |
| Minor in Intelligent Systems | Minor in German Language |
| Minor in Power Engineering | Minor in Thermo-Fluid Systems |
| Minor in Electronics Engineering | Minor in Mechanical Design |
| Minor in Communication Engineering | Minor in Device / Structural Materials |
| Minor in Measurement and Instrumentation | Minor in Applied Physics |
| Minor in Control Engineering | Minor in Quantum Technologies |
| | Minor in Robotics |

Minor in Intelligent Systems

| Course Code | Course Name | No compulsory courses, any course if counted towards minor will go to FE & should be non P/F and non Audit Course | |
|--------------------|--------------------------------------|--|---|
| | | Course Code | Course Name |
| EE511 | Computer Vision | | |
| CS673 | Advanced Computer Vision | CS305 | Artificial Intelligence |
| CS671 | Deep Learning and Applications | DS412 | Matrix Computation for Data Science |
| CS672 | Advanced Deep Learning | EE608 | Digital Image Processing |
| DS413 | Introduction to Statistical Learning | BY606 | Bioinformatics Applications for System Analysis |
| DS411 | Optimization for Data Science | CS630 | Speech Technology |
| CS683 | Generative AI | CS660 | Data Mining for Decision Making |
| CS685 | Natural Language Processing | CS609 | Speech Processing |

| MINOR IN COMPUTER SCIENCE ENGINEERING | | MINOR IN COMMUNICATION ENGINEERING | |
|--|-----------------------------------|---|-----------------------------------|
| Course Code | Course Name | Course Code | Course Name |
| Compulsory: CS212 | Design of Algorithms | Compulsory: EE304 | Communication Theory |
| CS313 | Computer Networks | EE503 | Advance Communication Theory |
| CS302 | Paradigms of Programming | EE314 | Digital Signal Processing |
| CS305 | Artificial Intelligence | EE530 | Optimization Theory |
| CS214 | Computer Organization | MINOR IN MEASUREMENT AND INSTRUMENTATION | |
| CS304 | Formal Language & Automata Theory | Course Code | Course Name |
| CS309 | Information Systems & Databases | Compulsory: EE313 | Measurement and Instrumentation |
| CS208 | Mathematical Foundations of CS | EE301 | Control Systems |
| CS312 | Operating Systems | EE314 | Digital Signal Processing |
| IC-253 (Data Structures & Algorithm) is a pre-requisite for CS212 but credits of IC-253 don't count towards Minor in Computer Science | | EE620_24 | Advance Digital Signal Processing |

Minor in Management

Prerequisites for Minor in Management:

- IC 252: Data Science II (3-0-2-4)
- One course from the Communicative Competence basket:

Core Courses (6-credits):



| | |
|-------------------------------------|--------|
| Basic Communication Skills | HS-105 |
| Public Speaking and Debating Skills | HS-206 |
| Policy Analysis and Advocacy Skills | HS-301 |
| Science Writing | HS-305 |
| Creative Writing | HS-357 |
| Principles of Economics | HS-202 |
| Organizational Management | HS-304 |

Basket Elective Courses (Any 2 courses need to be done out of these 9):

| | | | | | |
|--------|--------------------------|--------|---|--------|---|
| HS 205 | Financial Accounting | HS 616 | Managerial Thinking and Decision Making | HS 307 | Macroeconomics I |
| HS 403 | Organizational Behaviour | HS 461 | Consumer Behaviour | HS 481 | International Economics |
| HS 551 | Financial Management | HS 510 | Essentials of Entrepreneurship | HS 504 | Personal Finance and Portfolio Management |

| MINOR IN POWER ENGINEERING | | MINOR IN THERMO-FLUID SYSTEMS | |
|------------------------------|--------------------------------------|-------------------------------|--------------------------------------|
| Course Code | Course Name | Course Code | Course Name |
| Compulsory: EE201 | Electromechanics | ME210 | Fluid Mechanics |
| Compulsory: EE309 | Power Electronics | ME303 | Heat Transfer |
| CS403 | Algorithms Design and Analysis | ME307 | Energy Conversion Devices |
| CS304 | Formal Languages and Automata Theory | ME356 | Principles of Energy Conversion |
| CS214 | Computer Organization | ME451 | Refrigeration and Air Conditioning |
| CS309 | Information and Database Systems | ME614 | Compressible Flow and Gas Dynamics |
| CS671 | Deep Learning and its Applications | ME615 | Applied Computational Fluid Dynamics |
| MINOR IN CONTROL ENGINEERING | | | |
| Compulsory: EE301 | Control Systems | EE509 | Linear Dynamical Systems |
| Compulsory: EE301P | Control System Laboratory | EE514 | Robust Control Systems |

Minor in Robotics

(2 Compulsory Courses & Any 2 out of 14 Electives)

| Course Code | Course Name | Course Code | Course Name |
|------------------------------------|---|------------------------|-----------------------------------|
| Compulsory: AR 501 / ME 452 | Robot Kinematics, Dynamics, and Control | AR 509 | Deep Learning for Robotics |
| Compulsory: AR 503 | Mechatronics | AR 510 | Underactuated Robotics |
| AR 502 | Advanced Design Practicum | AR 511 | Autonomous Mobile Robots |
| AR 504 | Robot Programming | AR 512 | Rapid Prototyping and Tooling |
| AR 505 | Principles of Robot Autonomy | AR 513 | Unmanned Aerial Systems (UAS) |
| AR 506 | Cognitive Robotics | AR 514 | Vision and Learning Based Control |
| AR 507 | Probabilistic Robotics | AR 515 | Sensors and State Estimation |
| AR 508 | Marine Robotics | AR 519 / EE 555 | Intelligent Control System |

MINOR IN ELECTRONICS ENGINEERING

| Course Code | Course Name | Course Code | Course Name |
|--------------------------|-----------------------|--------------------|--|
| Compulsory: EE203 | Network Theory | EE305 | Digital Signal Processing |
| Compulsory: EE210 | Digital System Design | EE311 | Device Electronics for Integrated Circuits |
| EE211 | Analog Circuit Design | EE312P | Microelectronics Circuits Design Practicum |

MINOR IN MECHANICAL DESIGN

| Course Code | Course Name | Course Code | Course Name |
|--------------------|----------------------------|--------------------|---------------------------------------|
| ME205 | Machine Drawing | ME309 | Theory of Machines |
| ME206 | Mechanics of Solids | ME352 | Finite Element Methods in Engineering |
| ME305 | Design of Machine Elements | ME602 | Mechanical Vibration |

Minor/Specialisation in Quantum Technologies

Specialization requires 18 or more credits & **Minor** requires 12 or more credits

Atleast one of QT 01 & QT 02 is mandatory

| | | |
|-----------------------------|---|---------|
| QT 301 | Survey of Quantum technologies and Applications | 3-0-0-3 |
| QT 302 / PH 513 / EP 301 | Foundations of Quantum Technologies | 3-0-0-3 |

Atleast one of QT 03 & QT 04 is mandatory

| | | |
|---------------------|---|---------|
| QT 303P | Basic Programming Lab | 2-0-1-3 |
| QT 304P / QT501P | Basic Laboratory Course for Quantum Technologies | 2-0-1-3 |

Atleast one of QT 05, QT 06, QT 08 & QT 09 is mandatory

| | | |
|-----------------------------|---------------------------------------|---------|
| QT 405 / CS 520 | Introduction to Quantum Computation | 3-0-0-3 |
| QT 406 | Introduction to Quantum Communication | 3-0-0-3 |
| QT 407 | Introduction to Quantum Sensing | 3-0-0-3 |
| QT 408 / PH 532 / PH 501 | Introduction to Quantum Materials | 3-0-0-3 |

Atleast one of QT 05, QT 06, QT 08 & QT 09 is mandatory

| | | |
|--------------------|--|---------|
| QT 509 | Engineering Foundation of Quantum Technologies | 3-0-0-3 |
| QT 510 / PH 601 | Solid State Physics for Quantum Technologies | 3-0-0-3 |
| QT 511 / PH 550 | Introduction to Quantum Optics | 3-0-0-3 |
| CS 521 | Introduction to Post Quantum Security | 3-0-0-3 |

MINOR IN DEVICE / STRUCTURAL ENGINEERING

| Course Code | Course Name | Course Code | Course Name |
|-------------|---|-------------|----------------------------------|
| ME353 | Electronic Materials and Their Applications | ME609 | Functional Materials |
| ME607 | Materials Science for Failure Analysis | ME619 | Experiments in Materials Science |

MINOR IN GERMAN LANGUAGE

| | | | |
|-------|--|-------|---|
| HS352 | German II | HS372 | German IV |
| HS362 | German III | HS373 | Readings from German History |
| HS363 | Post-war Germany: A Literary Perspective | HS539 | Post-War Germany: Politics, Society and Culture |

MINOR IN APPLIED PHYSICS

| | | | |
|---------------|--|---------------|---|
| EP-502 | Informatics for Materials Design | PH302 / PH522 | Introduction to Statistical Mechanics / Statistical Mechanics |
| PH301 / PH513 | Quantum Mechanics and Applications / Quantum Mechanics | PH501 / PH523 | Solid State Physics / Condensed Matter Physics |

*CONTINUED

*CONTINUED

Minor in Applied Physics

| Course Code | Course Name | Course Code | Course Name |
|-------------|--|-------------|--|
| PH-502 | Photonics | PH-603 | Advanced Condensed Matter Physics |
| PH-503 | Laser and Applications | PH-604 | Optical Properties of Solids |
| PH-504 | Organic Optoelectronics | PH-605 | Superconductivity |
| PH-505 | Electronic Structure | PH-606 | Quantum Field Theory |
| PH-506 | Project | PH-607 | Physics of Ultracold Quantum Gases |
| PH-507 | X-rays as a probe to study material properties | PH-608 | Computer assisted quantum mechanics |
| PH-508 | Magnetism and Magnetic Materials | PH-609 | Theory of quantum collision and spectroscopy |
| PH-511 | Mathematical Physics | PH-612 | Nuclear and Particle Physics |
| PH-528 | Introduction to General Relativity | PH-701 | Introduction to Molecular Simulations |
| PH-601 | Mesoscopic Physics and Quantum Transport | PH-706 | Introduction to Stochastic Problems in Physics |

Backlog Courses

- Students are not allowed to take backlog courses during the regular semester viz. ODD and EVEN semester of Academic Year.
- Backlog course can be taken during Winter or Summer Term only.
- Students having backlogs will have to register the courses during summer/winter vacation semesters.
- Supplementary exams for these courses will only be conducted in summer/winter break and grades will be included under vacation semester.
- Students have to take prior permission/consent from the concerned course instructor and approval from Dean (Academics) for supplementary exams.
- Students should be in touch with course instructor regarding their exams. Course instructors will submit the grades, before commencement of subsequent regular semester.
- Students can register for equivalent course in place of backlog course with the condition to provide recommendation of Faculty advisor and approval of AD (Courses) latest within first 5 days of the corresponding semester.
- Courses that you have failed, even if later cleared, will still be shown on your transcript.

Conversion to 5-year programmes

B.Tech to B.Tech Double Major

- Students will be able to get a major degree in 2 fields, i.e. degree awarded would be BTech/BTech + MTech in <First Major> with Second Major in <Second Major>
- Students would have to complete roughly 38-40 extra credits in the second major by staying back an additional one year
- Eligibility criteria: CGPA ≥ 7.0 , with not more than one F grade at the time of application
- Application period:
 - At the end of 4th and 6th semesters for 4-year BTech programs
 - At the end of 6th and 8th semesters for 5-year BTech programs
- Benefits:
 - Students with a second major in “X” can sit for intern/placement in “X” profiles too
 - Additional opportunity for students who missed the branch change

B.Tech to B.Tech - M.Tech IDD

- Students would be awarded BTech/BTech (Honours) + MTech in <First Major>
- Eligibility criteria:
 - CGPA ≥ 8.0 , with no F/I grade at the time of application
 - All degree requirements to get B.Tech./B.Tech. (Honours) must be completed by 8th semester
- Application period:
 - At the end of 6th semester to the beginning of 8th semester
 - Submit a formal application with a supporting letter from the FA and School Chair
- Students would have to complete 46 extra credits (5 or above level courses) by staying back an additional one year
- Students will be given MHRD HTRA on-par with MTech students, provided CGPA ≥ 8.0 at the end of 8th semester or students have a valid GATE score
- Fees for 5th year would be paid as applicable to MTech students

Sources

- Minutes of the Senate Meetings
- Minutes of the BoA Meetings
- B.Tech. Ordinances and Regulations
- Insite Notifications

All Documents used/referenced in this PPT: [Link](#)

THANKS



Academic Council
IIT MANDI

Do you have any questions?

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Secretaries and Academic Council, IIT Mandi