



PLACEMENT BROCHURE

2021-22

Address by
Faculty Advisor



During a short span of 12 years of its existence, Indian Institute of Technology Mandi (IIT Mandi) has gained a reputation for its cutting edge research and innovative teaching programs. The institute prides itself on creating an environment that empowers young minds by developing intellect, versatility, broadening horizons of creativity, and honing inter-personal skills. With an aim of shaping the students into responsible engineers and scientists, the innovative undergraduate curriculum at IIT Mandi strives to expose students to strong fundamentals of engineering, basic sciences, and humanities, while simultaneously sensitizing them about human values and surroundings. Similarly, the institute's focus on research at the fore-fronts of various areas of science and technology has resulted in significant contributions, and excellent and responsible researchers. The Career and Placement (CnP) cell invites organizations which have recruited our alumni and have witnessed them deliver well on high expectations placed on them, as well as those whom our students have not yet got an opportunity to serve. The CnP cell strives to facilitate the best possible match between the aspirations of recruiting organizations and the abilities of our students, and we welcome suggestions from your organization that will help us realize it. I can assure you of prodigious talent of our students and feel elated to invite your esteemed organizations to recruit our students. We look forward to enthusiastic participation of your organization in our forthcoming campus placement session and lasting and mutually satisfying relation with your organization.

Dr. Tushar Jain

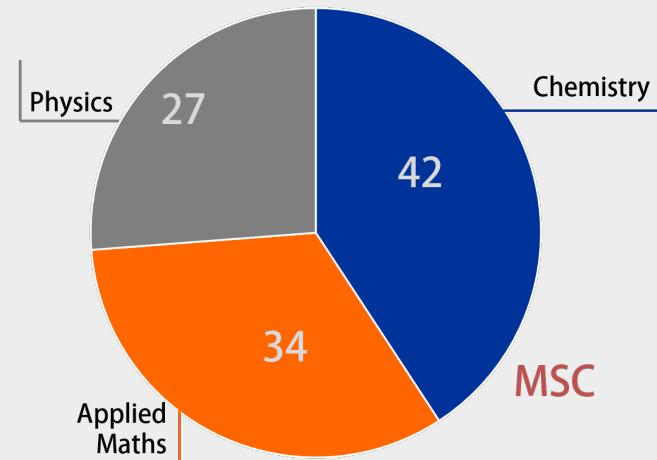
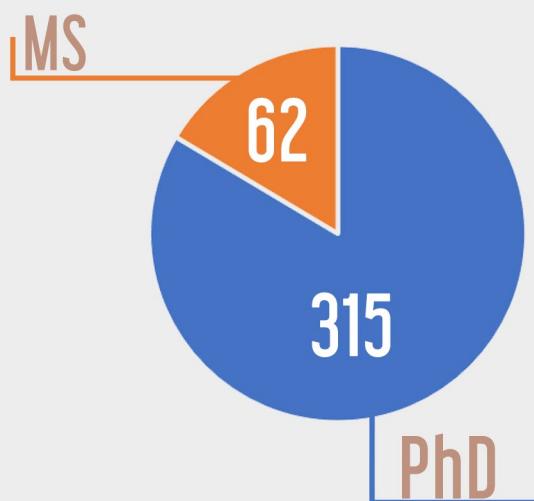
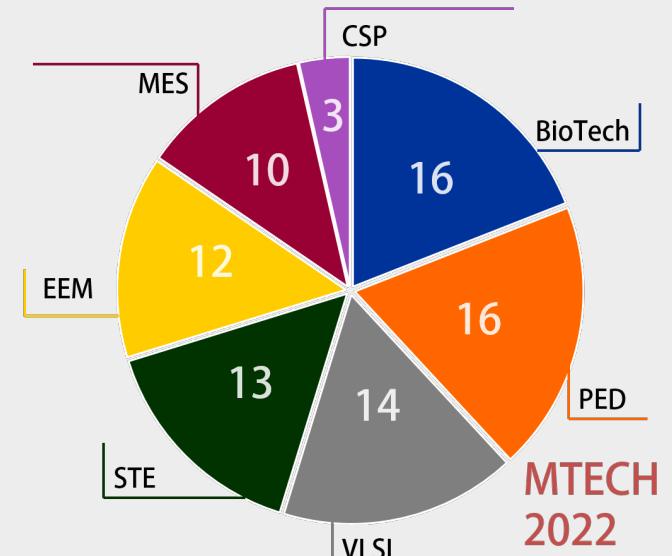
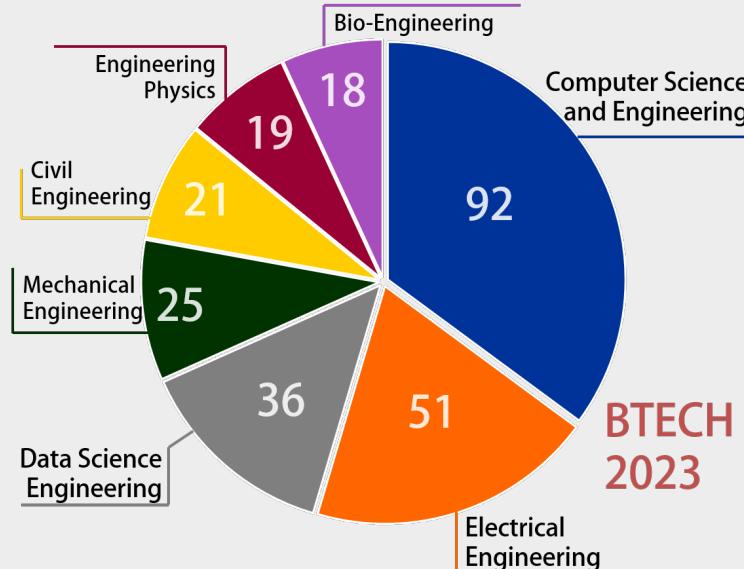
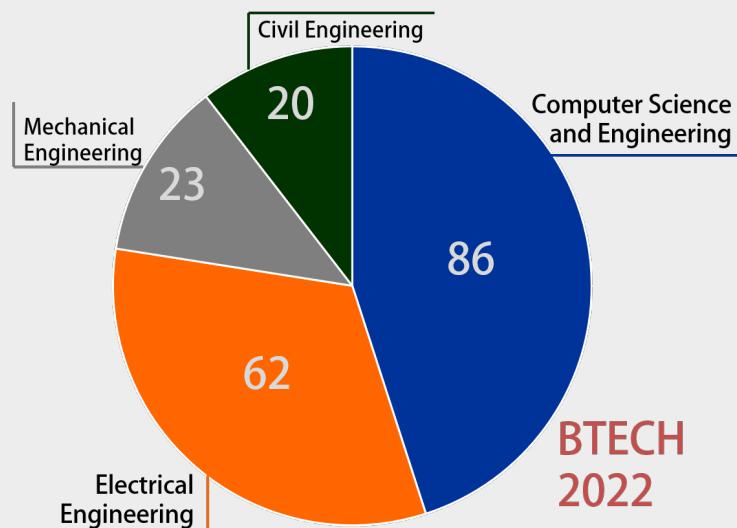
About Us

Indian Institute of Technology, Mandi is one of the youngest members of the IIT family. Established in 2009, IIT Mandi has quickly gained a reputation as one of the upcoming leading technical institutions in the country. IIT Mandi is a fully residential institute with more than 800 undergraduates, more than 700 postgraduates, over 100 faculty members, and many visiting faculty from all over the world. In May 2012, IIT Mandi became the first among the new IITs to start its functioning in the permanent campus. The permanent campus of IIT Mandi is in the picturesque land of Kamand, 14 km from Mandi city.

At present, IIT Mandi offers six undergraduate programmes: B.Tech in Mechanical Engineering, B.Tech in Computer Science and Engineering, B.Tech in Electrical Engineering, B.Tech in Civil Engineering, B.Tech in Data Science and Engineering, and B.Tech in Engineering Physics. Apart from these, a B.Tech-M.Tech Integrated Dual Degree in Bio-Engineering is also offered. The combined present intake for these programmes is 262 students per year. IIT Mandi offers M.S. degree programmes in the School of Computing and Electrical Engineering, the School of Engineering, and the School of Basic Sciences. PhD programmes are offered in the areas of Physics, Chemistry, Mathematics, Computer Science, Mechanical Engineering, Electrical Engineering, and Humanities and Social Sciences. IIT Mandi offers nine M.Tech programmes: M.Tech Energy (Mechanical), M.Tech Energy (Materials), M.Tech Power Electronics and Drives, M.Tech Communication and Signal Processing, M.Tech Structural Engineering, M.Tech Electrical Engineering (VLSI), M.Tech Biotechnology, M.Tech Computer Science and Engineering and M.Tech Fluid and Thermal Engineering. IIT Mandi also offers three M.Sc programmes in the areas of Chemistry, Physics, and Applied Mathematics.

Demographics

Number of students in each stream



Schools

Our schools are configured not by conventional divisions but by common ideas and beliefs that are the very foundation of various fields. In fact, they are clustered around multi-disciplinary initiatives. Currently, the institute has 4 schools:

School of Computing and Electrical Engineering

#1 Our outstanding faculty bring state-of-the-art research, development, and design experience into the classroom, ensuring that our students and alumni are amongst the best in their fields and that our research advances the scientific community as well as society and business.

#2 The various fields include Computer Science, Communication, Signal Processing, VLSI and Microelectronics, and Power Systems.

#3 Our computing and laboratory facilities are outstanding. The students are provided with the best facilities so as to help them get a better understanding of the various subjects.

School Of Engineering

#1 IIT Mandi has been trying to be at the forefront of innovation, engineering since its establishment and has succeeded to achieve the same, upto a remarkable extent.

#2 This school covers tangible physical structures and artifacts such as transport vehicles, transport system, machines, materials, manufacturing, designs, etc.

#3 Faculty members from traditional departments of Mechanical, Civil, Aerospace, and Metallurgy Engineering are also a part of school.

#4 At this school, we provide our students with an outstanding engineering education, that brings together cutting edge researchers, exceptional teachers and state-of-the-art facilities in inspiring physical and virtual environments.

School of Basic Science

#1 This school at IIT Mandi foresees to become an avant-grade department with high quality education and forefront interdisciplinary science research..

#2 This school includes Mathematics, Physics, Chemistry, Biotechnology and Life Sciences.

#3 While some faculty members work in pure research, others work on applied research in collaboration with the faculty in the School of Engineering.

#4 This school offers M.Sc program and Ph.D program in Mathematics, Physics and Chemistry, so as to direct the minds of students towards scientific challenges.

#5 This school motivates the researchers and students to pursue their careers in academics and industries.

School of Humanities and Social Sciences

#1 Modern engineers work in teams to create, improve and apply technology for the good of society.

#2 Each Department and Faculty has its own well developed research profile, but increasingly we are cooperating across disciplinary boundaries within the School and with colleagues in other Schools.

#3 The key aim of this school is to ensure good understanding of language, culture, sociology, economics, management, ecology, etc., which is essential for becoming a well-rounded engineer; for development of technologies, products and processes that may see widespread uses that may see widespread use.

Programs

The institute currently offers four UG courses viz. B.Tech (CSE), B.Tech (EE), B.Tech (ME), B.Tech (Civil), three M.Sc., six M.Tech, two MS, and PhD Programs in all the schools.

Computer Science and Engineering

Computer Science and Engineering falls under the School of Computing and Electrical Engineering. The course structure spans sundry topics like (Advanced) Data Structures and Algorithms, Networks, Operating Systems, Compilers, Databases, Artificial Intelligence, Machine Learning and Cryptography. The institute runs its Website and applications such as Online Application for Faculty, Teacher Course Feedback, and Leave Management System which were solely built by students. Students have also participated in ACM-ICPC International Collegiate Programming Contest.

Electrical Engineering

The discipline of Electrical Engineering falls under the School of Computing and Electrical Engineering. It offers a diverse set of core and disciplinary electives in the areas of Power Systems, Electrical Networks, Electrical Machinery, Control Systems, Communication, Computer Networks, Digital Signal Processing, Power Electronics, Computer Organization and Architecture, Microprocessors, Electromagnetic fields etc. Several electrical and electronic laboratories have been set up at IIT Mandi to increase the practical understanding of the concepts. Various open source software like Xilinx, TINA TI, Power world simulator, ModelSim, etc. along with licensed software like MATLAB, LabView, etc. are also used.

Mechanical Engineering

The discipline of Mechanical Engineering falls under the School of Engineering. Power plant engineering, Mechanics of Solids, Analysis and Synthesis of Mechanisms, Fluid Mechanics, etc. are some of the core and elective courses. A student's profile is cultivated from that of a theorist to that of a mechanical trainee. CAD Modelling with CAM in various packages like SolidWorks (HSMWorks integrated into SolidWorks), AutoCAD, analysis using software like Open FOAM, Abacus and Fluent, Fluid Analysis using GSM, Finite Element Analysis using ANSYS, etc. are taught. A fully functional Solid Mechanics Lab and Central Workshop with most essential facilities are set up in the Kamand Campus.

Civil Engineering

the discipline of Civil Engineering falls under the School of Engineering. Traditional and Digital Surveying, Geotechnical Engineering, Water Resources Engineering, Strength of Materials and Structures, Remote Sensing are some of the core and elective courses. The student is trained in everything ranging from core mechanics to all the dynamics of real-world civil engineering problems. Various lab courses are conducted to make the students, proficient in Surveying and Engineering of Hydraulics, Transportation, etc.

Data Science and Engineering

The discipline of Data Science and Engineering falls under the School of Computing and Electrical Engineering. Data science is the discipline in which applications of various tools and techniques from the disciplines of applied statistics, mathematics, and computer science are used to derive greater insights from data and make better and informed decisions for various purposes by analyzing it. The curriculum of the Data Science and Engineering programme focuses on exposing to the students the essentials of applied statistics, applied mathematics, and computer science required in the context of data science and its applications, with a strong emphasis on having hands-on experience with the help of practicum, laboratories, and experiences of dealing with real-world problems.

Engineering Physics

Engineering Physics at IIT Mandi is a unique programme that is designed to prepare graduates with a rigorous foundation in physics as well as engineering to tackle today's technological challenges. This discipline will enhance cross-functionality and bridge the gap between pure sciences and traditional engineering disciplines, which conventionally are pursued independently. The core courses cover basic areas in physics, such as quantum mechanics and condensed matter physics, as well as basic courses in mathematics and engineering. In addition to compulsory courses, students complete a certain number of elective courses in physics that are intended to provide a good exposure in various directions in both theoretical and applied physics. This will equip students to tackle challenges in interdisciplinary areas in physical sciences and engineering, such as quantum technology, photonics, and artificial intelligence. The Engineering Physics programme also prepares students to pursue an advanced degree in physics.

Bio-Engineering (B.Tech-M.Tech Integrated Dual Degree)

Bioengineering integrates physical, chemical, computational and life sciences with core engineering principles for the study of biology, medicine, and health systems and for the application of technology to improve health and quality of life. The B.Tech and M.Tech Dual Degree Programme in Bio-Engineering strives to train students in the fields of physical, chemical, mathematical and biological sciences together with engineering principles for the development of technology aimed at providing diagnostic, therapeutic, assistive and analytical support to biological systems. The programme takes students through a rigorous framework of core courses at the Bachelors and Masters level, and a comprehensive and detailed project and dissertation work that allows them to graduate in five years with a B.Tech-M.Tech integrated dual degree

Post Graduate & Doctoral (M.S./M.Tech/Ph.D)

IIT Mandi offers M.S. (Master of Science) degree programmes in the fields of electrical, mechanical, and computer science engineering. These are two-year post-graduate programmes culminating in a research thesis that contributes to knowledge along with research publication and innovation. PhD programmes are offered in the areas of physics, chemistry, mathematics, computer science, mechanical engineering, electrical engineering and humanities. It is a four to five-year doctoral programme concluding with a thesis that makes a significant contribution to knowledge in a specific research area. These programmes are supported by teaching/research assistantship. M.Tech is offered in VLSI, Communication and Signal Processing, Power Electronics and Drives, Structural Engineering, Materials and Energy Engineering, Mechanical Engineering with Specialization in Energy Systems, Computer Science and Engineering, Biotechnology and Fluid and Thermal Engineering.

B.Tech CURRICULUM

The B.Tech program at IIT Mandi is semester-based with a flexible credit system. The curriculum is designed keeping in mind the need to produce well-rounded graduates. Students have liberty to take various electives in their discipline as well as open electives outside the chosen discipline to give them flexibility to obtain significant interdisciplinary knowledge.

Some highlights of the flexible curriculum are:

- #1 Core courses can be deferred to allow a student to take interesting electives early on.
- #2 Short, specialized courses by visiting experts from industry and abroad.
- #3 Elective courses offered by other IITs and universities abroad through our interactive electronic classrooms.
- #4 Minor program - a student of one branch takes a set of 3-4 courses in other discipline, e.g. a Mechanical student takes a minor in Computer Science.
- #5 Compulsory minimum 6 weeks Internship/Training between the Fifth and Seventh semester (3rd Year).
- #4 Semester internship: This provision is made for

undergraduate B.Tech and B.Tech + M.Tech (Integrated Dual Degree) students to do a semester-long internship in the industry and gain practical experience. The learning outcomes derived from this internship are far greater than those from shorter-duration internships as the students intensely engage with the industry to pursue education and research.

Unique Curriculum

THE B.TECH CURRICULUM HAS UNIQUE PRACTICUM COURSES SPREAD OVER THE FOUR YEARS WHICH AIM TO MAKE THE STUDENTS 'LEARN HOW TO LEARN'. THE COURSES ARE GEARED TOWARDS TESTING, TRAINING AND AT LAST CERTIFYING THE INNOVATIVE ENGINEERS WHO ARE HENCEFORTH READY TO FACE THE CHALLENGES OF THE REAL WORLD.

Reverse Engineering (1st year)

The students are encouraged to disassemble an already made product to study its design, architecture, and functioning. This gives them insights into how an industrial product is made and what all technologies are presently being employed.

Prototype Development (2nd year)

The course involves designing an innovative product and finally testing it so that it is ready for sale in the market. The course brings minds and disciplines to converge at a problem and to innovate without having much prior insight and knowledge about their own as well as other disciplines. An inter-disciplinary course like this enables the students from different branches to have brainstorming sessions together for completion of the prototype.

ISTP (3rd year)

The course is designed to make the budding engineers more sensitive towards society and its problems by surveying different aspects of interaction between technology and society. They are expected to think of an idea or product and survey and the impact it will have on the society.

Major Technical Project (MTP) (4th year)

This project is the capstone project of the four year BTech program.

The course is designed to promote the students to either redesign the existing prototypes and products or design a new product based on market feedback that has been collected, and create the physical product, as well as its packaging. The end-result of these efforts is a product that meaningfully adds value to the students, faculty, and the society.

M.Tech

CURRICULUM

This is a 2 year programme (four semesters) with credit system, designed to meet the product design/research requirements of the industry as well as academia in various fields of engineering. The course curriculum has a year of course work including core and discipline electives outside the chosen discipline, followed by a year of dissertation work. In addition to this, curriculum is supplemented with internship programs, research activities, industrial visits, etc. that helps to develop an insight into the respective domains.

M.Tech in VLSI

The M.Tech EE (VLSI) programme at School of Computing and Electrical Engineering (SCEE) is designed for students to acquire both theoretical and practical knowledge of VLSI technology, chip design, testing and fabrication. The M Tech. programme is complemented by well-equipped labs and a state of the art Centre for Design and Fabrication of Electron Devices (C4DFED). The Centre is equipped with CADENCE, SYNOPSYS, Keysight ADS, COMSOL, Xilinx VIVADO, SILVACO and SENTAURUS. The programme also exposes the students to various characterisation and fabrication lab environment with clean room of Class-100. IIT Mandi has a unique inter-disciplinary and learn-by-doing culture. This gives our graduates the necessary technical and professional maturity to handle unforeseen challenges in tomorrow's rapidly

changing world. Their appreciation for disciplines other than their own make them well-suited to work on real-world product and technology development.

M.Tech in Communication and Signal Processing (CSP)

M.Tech in Communications and Signal Processing is being offered in the School of Computing and Electrical Engineering (SCEE) since August 2017. The program aims to provide specialist knowledge and skills needed in the area of digital signal processing and communication theory and the application of both areas to machine learning, systems design, IoT etc, to meet the product design/research requirements of industry as well as academia. The course curriculum includes one year of course work that contain core subjects as well as elective courses, followed by one year of thesis work. The core courses like Advanced digital signal processing, Matrix theory, Probability and Random processes, Advanced Communication theory, Estimation and Detection theory and Optimization theory ensures a strong foundation to application domains mentioned in the beginning. Other than core courses students are allowed to take up good choice of free electives of their interests like Pattern recognition, Computer vision, Deep Learning, Internet of Things, Embedded systems, Speech processing, Transmission Lines etc. All these courses are supplemented with a fine set of relevant assignments and mini projects that develops an insight into the subject. In addition to this, students are prepared to undertake research activities through a Supervised Research Exposure (SRE) program at the end of first semester itself. The second-year dissertation work can be done either inside the campus under the guidance of a faculty

member or students can go for a one year long internship program in a relevant industry. This M.Tech program falls in line with the demands of the industries, in addition to ensuring a knowledge level befitting to the academia.

M.Tech in Power Electronics and Drives

M.Tech program in Power Electronics and Drives has been started at IIT Mandi from the year 2017 in School of Computing and Electrical Engineering (SCEE). It caters to the increasing academic and industrial needs in power electronics applications in energy conversion. The course provides an in-depth understanding of the technologies and scientific disciplines involved in electrical energy conversion by means of power electronic converters and electrical machines. The course curriculum, includes core subjects, discipline electives and free electives, hands-on laboratory training, mini projects associated with lab and theory courses, industrial visits to related organizations and thesis component, which would enrich students with right skills. Laboratory core courses are designed so as to go hand-in-hand with theory core courses and to bring in a deeper insight into the concepts learnt in the classroom. The aim is to expose the students to real-world industry-oriented applications and current developments in the field of Power Electronics and Drives and in turn make them ready to opt a career in industry, academia or participate in R&D activities.

M.Tech in Energy engineering with specialization in materials

This program belonging to School of Engineering is designed to cater the huge demand of energy professionals in India as well as overseas. This program gives the understandings of emerging energy sources by the applications of materials. The course curriculum consists of one-year course work of renewable energy sources, emerging energy sources, energy storage technologies, functional materials, and energy policies, management and laws. This course work is followed by a full year of project work. This curriculum has been designed so as make the students able to take up a professional or research career either in industries or academia after the completion of the course. This course is also equipped with some mechanical and electrical engineering courses like power plant engineering, manufacturing and modeling and simulations. This course prepares the students to explore emerging sources of energy as well as the conversion of energy from one form to other in a most efficient and economical way.

M.Tech in Mechanical engineering with specialization in energy systems

This program belonging to School of Engineering is intended to give the understandings of mechanical engineering with a specialized area in energy systems. The course helps a student to get a deeper knowledge of mechanics of solids, manufacturing of energy systems, composites of materials, heat and fluid flow in energy systems and many other concepts about mechanical and energy engineering; followed by a one year of project work. The vision of course is to develop sustainable energy systems and solutions for the future. This course comprises holistic design, analysis and

course comprises holistic design, analysis and optimization of energy systems, which are composed of different energetic components like power plants, boilers, heat exchangers and accumulators. This program integrates the study of technology, business and science of mechanical engineering, focusing on the key area of energy systems.

M.Tech in Biotechnology

M.Tech in Biotechnology offered at IIT Mandi by School of Basic Sciences (SBS) provides an opportunity to improve your expertise by working on the best and latest technology instruments including GPC, HPLC, SEM, TEM; providing hands on experience according to the specialization opted for. The branch offers two specialization courses M.Tech in Biotechnology with specialization in Nanotechnology/Systems Biology. Nanotechnology gives you the insight into exploring the use of nanomaterial employed in disease sciences and devising a cure based on the use of nanomedicine. System biology deals with the bioinformatics skills to study about the proteins, metabolics and related areas. Excellent Infrastructure, Cell and Tissue culture facilities, NGS facility, Bioreactors, High end microscopy and spectroscopy facilities, Stop-Flow, GC-MS, Molecular Biology lab, Plant Growth facilities along with required basic infrastructure housed in AMRC and BioX centre of IIT Mandi. Thesis projects are being carried by current M.Tech students (in areas such as Cancer Biology, Development of point of care biomedical devices, metabolite profiling, Nanobiotechnology, Systems Biology, Immunology, Bioprocessing, Computational modelling, Proteome Analysis etc). Scholarships are also offered by the Khorana programme to provide the students with the opportunity to go and pursue

internship in the best universities of U.S. for maximum 3 months during summers.

M.Tech in Structural Engineering

This program is being offered by School of Engineering since August, 2018. The objective of program is to make students conceptually sound with strong analytical skills in the domain of Structural Engineering, fulfilling the industry need of trained and capable structural engineer to take up challenging and innovative infrastructure projects and Motivating students for taking up career in research and academics to support the ambition of becoming a research powerhouse in the domain of structural engineering. The program is aimed to focus on the analysis for and design against various natural hazards such as earthquake, especially in the Himalayan region. Students will learn the theory along with tools for analysis of such hazards and possible measures to mitigate the risk. Emphasis will be given on the probabilistic seismic hazard analysis, and specific techniques suitable for earthquake resistant and sustainable constructions in the earthquake prone hilly regions. Course curriculum also includes theoretical concepts and software related to Finite Element Methods. Specific courses will focus on the stability of slopes and mitigation of landslides in the hilly terrain. Moreover, the students will be equipped with the theories and applications of various structural health monitoring techniques and suitable strengthening measures. The program prepares students to be professionals in field of structural engineering, who can come up with innovative solutions for infrastructural and societal issues.

MSc CURRICULUM

This is a two year programme (four Semesters). Core Courses are decided by SBS faculty keeping in mind the course for entrance examinations like NET and GATE, and flexibility is given to the students to choose elective courses in their discipline as well as open electives outside the chosen discipline. Various elective courses are offered.

Unique Curriculum

THE M.Sc CURRICULUM HERE IS DIFFERENT FROM OTHER INSTITUTES. THE STUDENTS ARE PROVIDED RESEARCH EXPOSURE FROM THE VERY FIRST SEMESTER. EACH STUDENT IS PROVIDED WITH A FACULTY MENTOR AND A RESEARCH PROJECT. IN THE FIRST SEMESTER STUDENTS START READING RESEARCH PAPERS TO GET A CLEAR UNDERSTANDING OF THEIR RESEARCH PROJECT WHICH COMES UNDER DESIGN PRACTICUM I. SECOND SEMESTER ONWARDS, EACH STUDENT STARTS WORKING IN THE LAB WITH RESEARCH SCHOLARS WHICH COMES. IN THIS WAY EACH STUDENT GETS RESEARCH EXPOSURE ALONG WITH COURSEWORK AT VERY INITIAL STAGE AS COMPARED TO OTHER INSTITUTES. THE STUDENTS WORK CLOSELY IN ASSOCIATION WITH MANY RESEARCH SCHOLARS AND GET A FIRST HAND EXPERIENCE TO HANDLE MANY INSTRUMENTS AS WELL. THE STUDENTS ARE ALSO PROVIDED WITH COUPLE OF TECHNICAL LABORATORY COURSES IN DISCIPLINES OTHER THAN CHEMISTRY LIKE MECHANICAL AND ELECTRONICS WORKSHOP SO THAT THEY ARE NOT LIMITED JUST TO ONE FIELD.

M.Sc. in Applied Mathematics Programme:

M.Sc. in Applied Mathematics programme at IIT Mandi is intended to give the students deep understanding of the principles of Mathematical sciences while expanding their knowledge in the allied areas through elective courses. The curriculum has been designed so as to prepare the students to take up a research career either in academia or in industries on completion of the program. Students will be equally equipped to take up professional career in Industries. The curriculum focuses on an interdisciplinary approach wherein students learn theory and its applications (through fundamental core courses and engineering open elective courses) those are required for research in applied Mathematics and industry jobs. Special features of this program :

- Broad based curriculum to increase 'thinking power' and 'Problem solving ability' of the students.

- Deep understanding of the principles of Mathematical sciences while expanding the knowledge in the allied areas through elective courses.
- Able to take research career either in academia or in industries on completion of the program.
- Able to take professional career in Industries

M.Sc. in Chemistry Programme:

School of Basic Science runs a Master of Science program in Chemistry for students who have completed their bachelor degree elsewhere. These students enter into this program through an entrance test conducted by IIT Mandi. The students take a combination of compulsory and wide range of elective courses and are required to carry out rigorous research work as part of their curriculum. Most of these students aim for higher studies in chemistry at different institutions worldwide

M.Sc. in Physics Programme:

M.Sc. in Physics program is being started at IIT Mandi from August 2017. This program is intended to give thorough understanding of the fundamentals of subject along with the exposure to the contemporary areas of research in the discipline. Students will have to undergo rigorous training in the subject and would be given early exposure to research in different areas of physics available at IIT Mandi, so as to enable them to take up the research activities at IIT Mandi as well as other premiere institutions in India and abroad

MA CURRICULUM

M.A. in Development Studies is offered by the School of Humanities and Social Sciences at IIT Mandi, with an aim of creating a pool of development practitioners and/or academicians who will be well equipped to participate in the process of sustainable development. The course structure is designed with an emphasis on both the theoretical as well as the practical approaches of development and the students (through fieldwork and development practicum) are also rigorously trained to contribute in social science research. The interdisciplinary approach of the curriculum also envisages mitigating the lacuna between the technical and social know how. The features of the program are:

- A combination of rigorous coursework (both in terms of Core Courses and various Elective Courses) and exposure to real-world development challenges.
- While the Core Courses are more thematic and approached development issues from an interdisciplinary perspective, Elective Courses go deeper into a discipline to approach a problem.
- Basic understanding of multi-disciplinary approaches towards development challenges and planning. The course work will be at par with national and international standards.
- Understanding the basic scientific and technological underpinning of some of the developmental challenges and their existing remedies.
- A mandatory Field Study component to understand the laboratory of Development Studies.
- Participatory research through components of dissertation/guided internship.
- Ability to communicate the results to a range of stakeholders: academia, professionals in policy making and implementation, local communities etc.

PhD CURRICULUM

Doctorate offered by institute requires a significant contribution to the research field reflected through publications in peer reviewed journals. Aim of this program is to work inline with other leading research institutions. Dynamic faculty and scholars find good collaborations with institutes across country and abroad. Research work includes both computational and experimental work to address engineering and scientific intricacies.

Students with good academic background and have qualified technical examinations are selected. Throughout their PhD program, they gain experience of teaching assistantship (TA) and exam duties with faculties, which brings in them the experience of different ways of teaching and broad knowledge of subject. Scholars possess good discipline and profoundness to work assigned.

Institute offers sports and academic competitions, so scholars are well in contact with the bachelors and masters student and know to work in team.

Branches:

Civil Engineering
Electrical Engineering
Mechanical Engineering
Material Science Engineering
Physics
Chemistry
Biology
Humanities and Social Sciences.

Research & DEVELOPMENT

In a world increasingly driven by technology, IIT Mandi offers the best research facilities to its students as well to the faculties. Through its robust R&D axis, IIT Mandi focuses on technological development and encourages innovation. The main aim of the R&D centre at IIT Mandi is to make the students and the faculty more motivated and driven towards higher studies and research.

The institute has the following facilities to support research and development activities:

Computational Facilities

The high performance computing facility at IIT Mandi is operational. It is a 128-core rack mounted cluster with Xeon 2.4 GHz quad core processor, 8GB memory per node, Gigabit Ethernet Interconnect, and 6TB storage and can support 256 threads. It has a RAM of 1GB per core. This is a rack-mounted cluster, with openPBS queuing. The campus is equipped with 1 Gb/s NKN connection and 45 Mb/s Internet connection.

Characterization Lab

- 01. UV-VIS spectrophotometer
- 02. Atomic Absorption Spectrometer (AAS)
- 03. Dynamic Light Scattering (DLS)
- 04. Magnetic susceptibility balance
- 05. Fluorescent spectrometer
- 06. Thermo Gravimetric Analyzer coupled with Differential Scanning Calorimetry (TGA-DSC)

- 07. Electrochemical Analyzer
- 08. FT-IR spectrophotometer
- 09. High Performance Liquid Chromatography (HPLC)
- 10. Spectrofluorometer
- 11. Ozonator
- 12. Polarimeter
- 13. GC
- 14. Time-Correlated Single Photon Counting (TCSPS)

Synthesis Lab

- 01. Fume Hood
- 02. Rotary Evaporator
- 03. Double Stage Water Purification System
- 04. Ultra Centrifuge with refrigeration
- 05. Muffle Furnace
- 06. Deep Freezer
- 07. Vacuum Oven
- 08. Flake Ice Making Machine
- 09. Programmable Spin Coater
- 10. Ozone Generator with Oxygen Concentrator

Thermo-fluids and Design Labs

- 01. NI Data Acquisition Unit
- 02. Phantom high speed video camera
- 03. Coriolis flow meter
- 04. Pressure calibration system
- 05. Temperature calibration system

Central Instrumentation Facility

- 01. Powder XRD
- 02. High Resolution Transmission Electron Microscope (TEM) - Energy Dispersive Spectroscopy (EDS)
- 03. Nuclear Magnetic Resonance Spectrometer - 500 MHz
- 04. Field Emission Gun Scanning Electron Microscope (FE-SEM)
- 05. Single Crystal X-ray crystallography
- 06. Fluorescence Confocal Microscopy
- 07. High Resolution Mass Spectrometer
- 08. FMTOSECOND PUMP-PROBE SET-UP

Apart from these, we are planning to install few major instruments like:

- 01. NMR
- 02. Single Crystal XRD
- 03. HR-TEM etc. in near future

Green Energy

IIT Mandi aims at development of Green Energy technologies -- solar, hydro, wind, geothermal and bio-mass in the next five years. Some of the important ongoing research thrust areas are highlighted below:

#1 GRID-CONNECTED/STAND-ALONE POWER ELECTRONIC CONVERTER CONTROL

The objective of the research is to develop simulations and experimental set-ups for interface of RES with grid connected PES control using intelligent and advanced digital signal processing techniques.

#2 ENERGY STORAGE

Research has been initiated here to develop high energy density capacitors using functional oxide materials. The research involves (a) materials development (selection of materials and bulk processing), (b) studying the structure property relationship of the materials by using various electrical and structural characterization techniques, (c) fabricating devices in the form of films or multilayered structures.

#3 IMPROVING EFFICIENCY OF PLASTIC SOLAR CELLS

The main research goals include development of novel conjugated polymers, new device architecture and morphology optimization for the betterment of the device efficiency. Design and synthesis of conjugated polymers having low band gap and high hole mobility are undertaken.

#4 NANOPARTICLE FOR SUSTAINABLE ENERGY

This research focuses on a rational design of the novel material for organic polymer solar cell to increase the efficiency of energy conversion. The main concern is to come up with the most effective cooperative plasmonic effect to improve the performance of polymer bulk heterojunction solar cell. The nanoparticles will be introduced into organic photovoltaic devices for improving light harvesting by utilizing the local surface plasmonic resonance of metal nanoparticles.

Material Science

IIT Mandi has a strong vision to form an active materials science research group. Some of the important research areas on material are highlighted below.

#1 DEVELOPMENT OF SMART COMPLEX OXIDE MATERIALS

The main research focuses on understanding both kinetic and thermodynamic aspects of the fabrication process of these materials, interfacial phenomena in multilayer devices, developing high temperature piezoelectric materials.

#2 COMPLEX TRANSITION METAL OXIDES FOR HIGH DENSITY MAGNETIC STORAGE DEVICES

The research focuses on complex transition metal oxides which find its use in high density magnetic storage devices, magnetic read write devices, eco-friendly electronic materials.

#3 BIOMEDICAL APPLICATIONS OF NANOMATERIAL'S

In this part of research the main focus will be on the specific targeting of the cancer cells as well as other therapeutic applications by synthesizing different size gold nanoparticles attached to DNA aptamer and characterizing the electronic and optical properties of Au-NP's.

#4 NANO-SCALE LIGHT HARVESTING DEVICE FABRICATION

Development of Polyoxometalate (POM) based cluster materials and organic-inorganic hybrids for various materials and catalytic applications. The targeted applications include nano-scale device fabrication, light harvesting and water splitting complexes.

#5 SUPRAMOLECULAR HIGH ENERGETIC COMPOUNDS (SUPRA-HECs)

Research in the field of energetic materials is generally directed towards achieving enhanced performance and reduced sensitivity. Novel energetic compounds with above stated properties are required to enhance the performance of munitions and propellants.

#6 SYNTHESIS OF NANOSTRUCTURE MATERIALS USING 'SOFT' TEMPLATES

This part of research on material science focuses on nano-crystallisation of organic materials using SLC templates, preparation of noble metal and alloy nanostructures, polymer nanostructures and metal/polymer composite nanostructures

Academic Facilities

The institute has state-of-the art facilities with lecture halls equipped with excellent audio-visual aids. Separate departmental classrooms with multimedia facilities for the smooth functioning of the classes are present. The conference hall has facilities that offers venue for meetings, conferences and other events. Other facilities that the Institute provides include:

#1 National Knowledge Network

IIT Mandi has collaborations with international institutes and other IITs. Owing to the internet and excellent audio-visual facilities, regular lectures are being held.

#2 The Central Library

The central library has more than 10,000 books and this collection is ever expanding and subscribes to over 2000 e-journals in the area of engineering, science and technology, humanities and social science and allied subjects taught in the institute.

#3 Intranet

IIT Mandi has its own Intranet portal called INSITE which serves as a repository of helpful information about the institute as well as a portal for transfer of information within the institute. MOODLE is a course Management System designed to help the teachers and students handle the academics in a convenient way by providing a common portal for discussion.

#4 Educational Trips and Seminars

IIT Mandi has good relations with all other IITs and many other academic institutions across India and abroad.

Students regularly visit other colleges to attend special lectures and workshops, which are relevant to their coursework (e.g. Power plants). Seminars and guest lectures are conducted regularly (live and via video conferencing) to keep students aware of the developments taking place in the outside world. Various national symposia are also conducted every year.

#5 Laboratories and Workshops

Computer Lab- 24*7 access, specially designed for cloud computing. IIT Mandi has developed a 128-core cluster that facilitates high speed computation.

Mechanical Workshop- High end machines like 3-D printer, milling, grinding, gear cutting, CNCs etc.

Digital and Analog Electronics Lab- Experiments involving XILINX, FPGA kits and ISE software, ARM, PIC and AVR , Analog system starter kit (from Texas Instruments), DSO and CROs.

Power Electronics Lab- 3 phase power based IPM based modules, 3phase inverter modules. DSP controllers, IGBT modules, Geo-earth ground testers, autotransformers etc.

Electrical Science Lab- BLDC trainer unit, DC Machines, 3 phase motors etc.

Advanced Material Research Centre (AMRC)- Equipped with transmission electron microscope, 3-D prototyping machine (3-D printer), UV-Vis spectrophotometer, Atomic Absorption spectrophotometer, Dynamic Light Scattering, Optical Microscope, Fluorescence Spectrometer, Thermo-Gravimetric Analyzer coupled with Differential Scanning Calorimetry, Electrochemical Analyzer, Fourier Transform Infrared Spectrometer, High Performance Liquid Chromatography. It includes X-Ray Diffraction Lab. Among the sophisticated instruments are the High Resolution Transmission Electron Microscope (TEM) - Energy Dispersive Spectroscopy (EDS), Nuclear Magnetic Resonance Spectrometer - 500 MHz, Confocal Microscopy. IIT Mandi has Solid Mechanics Lab as well.

Student ACTIVITIES

Student Clubs

The student clubs at IIT Mandi enable the all-round development of the students. There are many student clubs that cater to diverse interests. Most of the clubs come under the Student Gymkhana, with club coordinators for the various programs. The Science and Technology Council (SNTC), the Cultural Society, the Sports Society and the English Debating and Literary Society are the major student bodies overseeing the various student clubs.

Student Governance

A majority of student interests in the institute are governed by its students, promoting the idea of 'Self Governance'. The Student Council, with faculty members as advisors, is responsible for all students' activities, and is the decision making body for student welfare.

Exodia

Organized every spring, the Tech-Cult Fest of IIT Mandi provides a platform for youth talent across the country to converge and vie for glory in a plethora of competitions. Professional performances and workshops by some of the renowned artists light up the environment.

The Entrepreneurship Cell

The Entrepreneurship Cell(also known as E-cell), IIT Mandi is a student organization with a vision to promote entrepreneurship. E-Cell targets to help the students learn about Entrepreneurship, the difficulties faced and the solutions. It enables interaction among students, entrepreneurs, mentors, firms and corporates and thus, helps towards the development of India's entrepreneurial ecosystem.

Literary Society

IIT Mandi has various literary clubs and societies that actively work for enhancing the talent of the students in these fields. The society came up with the first official student magazine 'Vivaan'. The LitSoc held its formal debating competition along with several GDs, quizzes and creative writing. It participated in Oasis'2012 at BITS Pilani and won the first prize in Formal Debating. It also participated in Antaragini'2015 at IIT Kanpur.

Cultural Society

Music, Dramatics and Dance come together with Programme Management under the Cultural Society to provide students a platform to showcase their skills. The society has also started Photography and Fine arts Club. In the year 2014, this society started collaborating with SPIC-MACAY and has been organizing various events throughout the year. "Aakarshan"-Introduction to Cultural Society and "Exuberance"- Intra College Cultural Nights are some of the major events. The college band participated in Zeitgeist'2011 at IIT Ropar and stood second. The college also participated in WAVES'2014 at BITS Goa.

Sports Activities

The institute organizes various inter hostel and intra hostel sports events to promote the athletes. State-of-art sports facilities, experienced coaches and dedicated athletes have allowed IIT Mandi to gradually gain foothold in sports events all over India. IIT Mandi has marked its presence on the Inter IIT Sports Meet being the first new IIT to register points by reaching the semi-finals in Cricket. Last year, IIT Mandi girls bagged the silver medal in table tennis.

Science and Technology Council

The institute promotes the students to explore the technological fields and come up with innovative ideas that can help society develop further. IIT Mandi has the Programming Club, which along with the ACM Student Chapter organizes various coding competitions at National and International levels. There were 12 students and 3 mentor selections in GSOC in 2021. IIT Mandi participated in various events in the Inter IIT Tech Meet' 15, at IIT Kharagpur and bagged Gold Medal in Data Analytics, Silver Medal in Quiz, Silver medal in Hardware Modeling and an overall rank three STAC (Space Technology and Astronomy Club) got Bronze Medal in Star Cluster Identifier hackathon, Inter IIT Tech Meet 2018. The Astronomy Club is currently working on making the largest telescope amongst all colleges. Society of Automotive Engineers (SAE) is going to work on a new Electric Vehicle. Other Tech-Clubs working actively are the Electronics Club and Robotics Club. ESSENT is the official Tech-Magazine which is published every year.

Achievements

#1 ATHAR AAMIR AHMED BAGGED 2ND PLACE IN THE ALL-INDIA CIVIL SERVICES EXAM,2015.

#2 PRADEEP SEERVI GOT FIRST RANK IN GATE (EE) 2015

#3 DEEPANSHU RASTOGI SECURES AIR 58 IN IES 2015.

#4 TUSHAR AGARWAL SECURES AIR 13 IN GATE(CE) 2020.

#5 The Project-Junior is the name given to a new form of augmented reality (AR) interface developed for the computing devices by IIT Mandi students. The students' brainchild bagged the second place under mechanical division at Jed-i (Joy of Engineering, Design and Innovation) project challenge at Indian Institute of Science (IISc) Bangalore, competing against 69 teams from all over India in June, 2013. The project was also selected among the top 10 projects at Next Big Idea at IIM Bangalore and top rated for its potential to hit the markets in the near future.

#6 IIT Mandi is one of the five IITs where AADLs (Aakash application development labs) have been set up and are developing applications for Aakash tablets.

#7 INTER IIT TECH MEET

2015:IIT Mandi won the gold medal in the "Data Analytics" event in the 3rd Inter-IIT Tech Meet, held at IIT Kharagpur between 30th January and 1st February, 2015. This medal was tied with IIT Kharagpur. IIT Mandi also won silver medals in the events "Hardware Modeling" and "Tech-Biz Quiz". With this, IIT Mandi obtained the 3rd place in the overall General Championship Tally.

2017:IIT Mandi won Gold Medal in a Machine Learning Event "Stock Market Analysis" and Silver Medal in "Human Computer Interaction". IIT Mandi obtained the 4th place in the overall General Championship Tally.

2019:IIT Mandi won Gold Medal in Coding Hackathon. IIT Mandi got bronze medals in Case Study, BitGrit DataScience Challenge and Route Optimization Algorithem.

#8 Over the last few years, IIT Mandi has done well in events like "IBM web technology Contest", "Texas Instruments MCU Design Contest" etc..

#9 ADITYA CHAUHAN RECEIVED YOUNG SCIENTIST AWARD (2014-2015) 7TH, JAN

Aditya Chauhan received the Young Scientist Award (2014-2015) in the Materials Science category in the 102nd Indian Science Congress. The award consists of Rs 25,000 and a Certificate of Merit. An MS student, Aditya is working in the area of materials selection, energy harvesting and solid state refrigeration using piezoelectric ceramics under the guidance of Dr. Rahul Vaish. He has for the first time experimentally demonstrated giant refrigeration effect in piezoelectric ceramics. He has published over twenty research articles in peer reviewed international journals, gaining over 160 citations in just 2 years.

#10 GAURAV VATS ALSO RECEIVED YOUNG SCIENTIST AWARD (2015-2016)

#11 GOOGLE SUMMER OF CODE - SELECTIONS

2018: 11 selections at prestigious organisations like MOZILLA, KDE, FOSSASIA, OPEN ASTRONOMY, including 2 at THE LINUX FOUNDATION. IIT Mandi currently stands at 10th position in the world.

2019: 5 selections including 2 at Linux Foundation and 1 each at CERN, Zulip, Lablua 2 selections as mentors in GSOC' 19.

2020: 9 selections including organisations like Linux Foundation, Zulip, CiviCRM, Mifos, Lablua, DIAL, etc. 6 selections as mentors in GSOC'20.

2021: 12 student selections in organisations including Zulip, Linux Foundation, mlpack, Sympy, Kodi, Sugarlabs and 3 mentor selections in GSOC'2021.

Collaborations

IIT Mandi has active collaboration with Germany. The University of Stuttgart, on behalf of TU9, Germany and IIT Mandi has signed a MoU for collaboration in academic research and teaching.

This collaboration is mainly for:-

- The Exchange of academic information, scholarly information, materials and publications.
- The Exchange of students and faculty.
- Joint research programs.
- The Sponsorship of cooperative seminars, workshops and other academic meetings.

In addition to this, students visit Germany to study and carry out research at various universities and research institutes. This is aided by the DAAD (Deutscher Akademischer Austausch Dienst) Scholarships and Research Grants.

Apart from this, the students have enthusiastically taken up the German courses which have been included in the curriculum. They have also cherished the opportunity of being taught German by visiting scholars from Germany.

Our other important collaborations are as follows:

1. **Aachen University** - Exchange of students ,scholars and joint research activities and publication
2. **McMaster University, Hamilton, Ontario** - MoU covers research collaboration, student exchange, etc. in engineering, sciences and the humanities/social sciences. Key research areas in common include: Water and Health, Biomedical Engineering, Renewable/Sustainable Energy, Nanotechnology, Advanced Software Technologies.
3. **Blekinge Institute of Technology**, Karlskrona, Sweden -MoU signed for exchange of faculty and students, and collaboration in research.
4. **ITUniversity, Copenhagen, Denmark** - exchange visits of students and faculty.
5. **Consortium of Finnish Universities** - Universities including Aalto University have signed an MoU involving exchange of research,information,faculty and staff.
6. **Dublin City University, Dublin 9, Ireland**- joint research in atomic and molecular physics.
7. **Tata Consultancy Services** - MoU signed with the objective of intensifying academic co-operation and encouraging world-class , innovative and impact creating Ph.D work at IIT Mandi.
8. **University of Western Ontario, Canada**
9. **Hepia University of Applied Sciences Western Switzerland** - Framework Agreement
10. MoU for collaboration in academic and research with **Worcester Polytechnic Institute (WPI)**
11. **Malaviya National Institute of Technology, Jaipur** -MoU for academic research cooperation and the development .
12. **IIT Madras** - exchange visits of students and facility.
13. **Indian Red Cross Society** - MoU focused in areas of disaster risk reduction,mitigation and preparedness. Intensifying collaboration in climate change adaptation,ecosystem based livelihood support ,health and blood services.

Past Recruiters

10 Commerce Services Pvt Ltd (Shopx)

1mg
A Accenture
 Accolite
 Addverb Technologies
 Adobe
 AgNext
 Aizant Drugs
 Alstom
 Altair
 Amagi Media
 Amazon
 Aptean
 ARC dampers
 ArcelorMittal Nippon Steel
 Arcesium
 Arista Networks
 Atom
 Avalara
 Axxelo

Beehyv
 Bizense Technologies
 Bluestar
 Bookmyshow
 Boston Ivy Healthcare Pvt Ltd.
 BPCL
 Broadridge Financial Solutions
 BrowserStack
 Buddi.AI
 BYJU'S

C CAD Studio
 Capgemini
 Capital Dynamics
 CashFree
 C-DAC
 CeWIT
 Ceremorphic
 CGI
 Chegg
 CISCO
 CL Educate
 Classpluss
 Clear Trail
 Clicklabs
 Coal India
 Codenation
 Cognizant
 Commvault
 Continental India Private Limited
 Cortex
 Cready Technologies Pvt Ltd
 Crisptag Technologies Private Limited
 CSC
 Cubastion Consulting Pvt Ltd

D E. Shaw
 Decision Point
 Delhivery
 Deloitte
 Dhrishti-Soft
 DIRECTI
 Dolcera
 Domino Datalab
 DoubtNut
 DRDO
 Dunzo

E EBAY
 eClerx Services
 Ecom Express
 EdifeCS Technologies
 Embibe
 Enarko
 Endeavor Careers Pvt. Ltd.
 Entuple

F Finisar
 Flipkart
 Fresenius Kabi
 Futures First
G General Electric
 GMO Research
 Goldman Sachs
 Gridants
 Grofers

H Halliburton
 Helium Consulting Pvt. Ltd.
 HPCL
 HSBC Technology
 Hyperverge
 Hyundai

I IBM India
 Ikarus Process Automation
 Impact Guru Technology
 Incise
 Indeed
 Infoedge
 Infosys
 Innovaccer
 Innovation Line Technologies
 Internet Academy
 Intuit
 IOLCP
 IP Infusion
 ImageCapital Advisory Pvt. Ltd.
 ISRO
J Jaguar
 JP Morgan
 Juspay
 John Deere

K K & T Research
 Khosla Labs
 Kisan Hub
 KPMG
 Kritikal vision
 Kuliza

L LafargeHolcim
 Lepton Maps
 Lekha Wireless
 LnT Constructions
 LnT ECC
 LnT infotech
 LnT Mumbai
 Logic Fruit Technologies
 Loop
 LTI
 LTTS
 Lucideus

M Mahindra
 Mahindra and Mahindra
 MAQ Software
 Marvell Semiconductor
 MasterCard
 Mathworks
 Maven Securities
 Media.net
 Meeso
 Microsoft
 Mojo Networks
 Morgan Stanley
 Mphasis
 MPS Ltd.

N Nagarro Software
 Newzero
 Nference Labs
 NHAI
 Novapay Solution
 NSL HUB
 Nucleus Software
 Nutanix Technologies India Private Ltd.

O One97
 Optiver Services BV
 Optum
 Oracle
 Oyo Room

P P2Power Solutions
 PalC Networks
 Payme India
 PayTM
 PayU
 PentaIR
 Perceptive Analytics
 PharmEasy
 Play Simple
 Praco Labs
 Practically
 ProtoTech Solutions
 Publicis Sapient

Q Qualcomm

R R Systems
 Raam group
 Razorpay
 Reliance Jio
 Resonance Eduventures Ltd.
 Robert Bosch
 RockOn Technologies
 Rubrik

S Sam media
 Samsung (SEL)
 Samsung (SISC)
 Samsung (SDS)
 Sandip University
 SAP LABS

Sentiss Pharma
 Service Now
 ShopX
 Siemens
 Siemens Gamesa
 Sigmoid Analytics
 Signal Chip
 Signaltron
 Slice
 Smarton
 SmartPrix
 SMS DataTech
 Sprinklr
 SRF
 Statlabs Analytics
 Stellarix
 Swastik Classes
 Swiggy

T Tata Motors
 Tata Steel Ltd
 Target
 TCS
 TCS IT
 TCS R&D
 Tecumseh
 Tejas Networks
 Tescro
 Tetcos
 Texas Instruments
 TG Campus
 The solar labs
 Timetooth Technologies Pvt. Ltd
 TMI
 Toppr
 Tork Motors Pvt. Ltd.
 TRAI
 Trident
 Truminds
 Truring Softek Pvt. Ltd

U Udaan
 UnDosTres
 Ushvaa
V Vehant
 Veratech
 Videocon Technologies
 Vidyamandir Classes
 Visa
 VMware Inc.

W Walmart Labs
 Walkover
 Webstaff Co., Ltd
 Wipro Limited
 Wisig Networks Pvt. Ltd.
 Works Application
 Wunderman

X Xebia IT Architects India Pvt Ltd.
Y Yodlee
 Yokogawa

Placement PROCEDURE



The Placement Office (nodal point for placements at IIT Mandi) or the Placement Cell (a body of student representatives) sends invitations to companies/organizations along with relevant information.



Company/Organization fills in a JNF (Job Notification Form) containing details of the job offer (pay package, place(s) of posting, allowances and other bonuses) and sends it to the placement cell. The JNF is made available online to the students, along with any other information furnished by the company/organization.



Placement Office allots dates to companies for campus interviews based on certain details given by the companies. The companies/organizations confirm the dates with the Placement Office. These dates are then forwarded to the students



Interested students, who show their willingness to appear for the recruitment process of a company are asked to register for the same. Companies are provided with the resumes of interested students.



Companies come down to the campus on the allotted date(s) and conduct tests and/or interviews in accordance with their recruitment process. The company/organization is required to furnish the final list of students preferably on the date of interview.

The JNF provides the primary basis of communicating the details of the positions offered to the candidates. It is therefore, highly desirable that the JNF is completed in all respects and it would be advantageous if it were accompanied by relevant company literature with more details about the company.

Companies are allotted dates based on the ranking of the job offer. The job offer is ranked based on the following parameters:

- Compensation Package Growth Prospects in the job
- Past record of recruitment at IIT Mandi

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