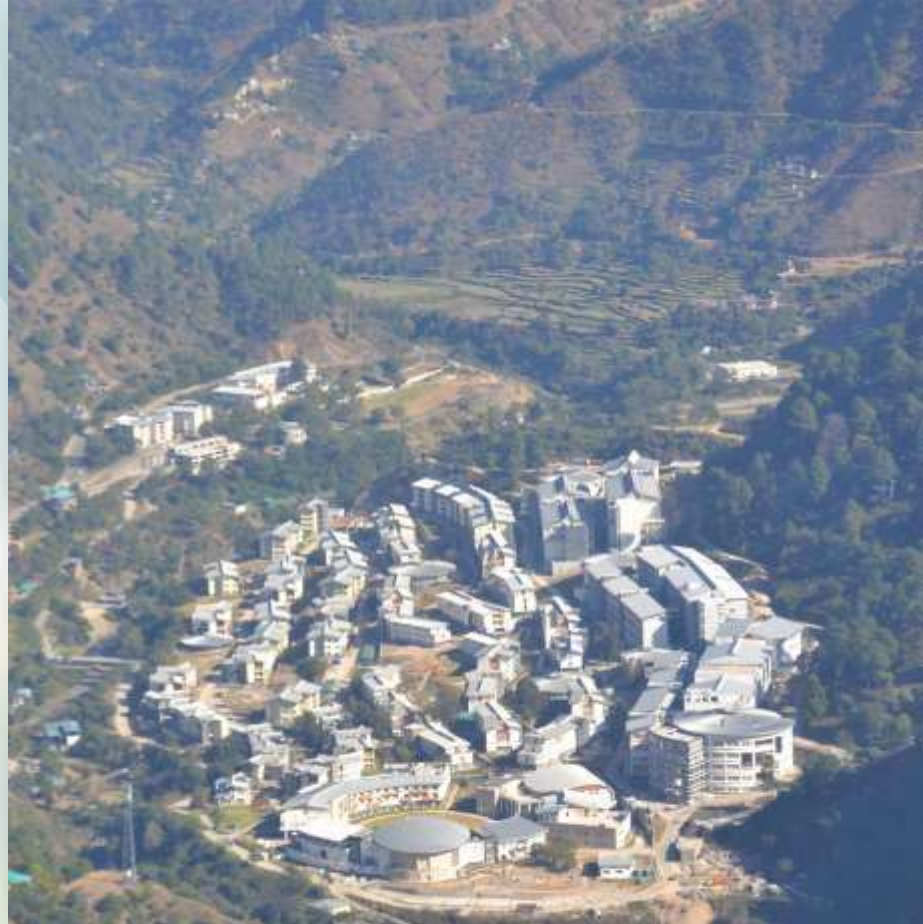


IIT MANDI

PLACEMENT BROCHURE

M.Sc. Chemistry

2025-26



INDIAN INSTITUTE OF TECHNOLOGY, MANDI



| About IIT Mandi

Indian Institute of technology, mandi is a premier public technical and research institute located in mandi district of Himachal Pradesh. It was established in 2009 and is recognized as an institute of national importance under the institutes of technology (amendment) Act passed by the Indian parliament in 2012. It imparts to its students a world class education, a plethora of opportunities to pursue and excel in all kinds of fields and research and an extraordinary campus life to cherish forever. It's a prestigious and picturesque campus at the foot of the Himalayas.

The Institute boasts state-of-art infrastructure, excellent campus facilities for all residents and a highly sophisticated array of laboratories and research facilities to support cutting-edge research and scientific pursuits. All these elements come together and mold students into highly competent professionals, technocrats and leaders of the world.

About Us

- Started in 2014, M.Sc. Chemistry program at IIT Mandi is **Two year (4 semester) program and was first master level program offered under basic science discipline.**
- This program is aimed at providing fundamental knowledge in the broad areas of Chemistry through core courses and at the same time offers a knowledge-base in the allied areas and beyond through elective courses.
- The M.Sc. Chemistry program is highly research-oriented and enables students to avail a “learn-by-doing” approach through research projects. A total of 15 core faculty members of Chemistry faculties from a diverse research background serve as instructors for the MSc Chemistry program.
- Our alumni have found themselves in highly reputed national and international institutes and organizations in academia and industry.

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| Centres





ACADEMIC PROGRAMS

Course Structure

Semester 1

- Organic Reactions & Mechanisms
- Chemistry of Transition Elements
- Advanced Quantum Chemistry
- Design and Innovation Practicum I
- Discipline Elective-I
- Physical Chemistry Laboratory

Semester 2

- Photochemistry & Pericyclic Reactions
- Chemistry of Main Group Elements
- Group Theory & Spectroscopy
- Mathematics for Chemists
- Design and Innovation Practicum II
- Organic Chemistry Laboratory

Semester 3

- Computational Chemistry
- Chemical Thermodynamics & Electrochemistry
- Organometallic Chemistry
- Basic Mechanical & Electronics Workshop
- Inorganic Chemistry Laboratory
- Discipline Elective II
- Post Graduate Project I

Semester 4

- Reaction Dynamics, Kinetics & Catalysis
- Heterocyclic Chemistry
- Outside Discipline Elective
- Outside Discipline Elective II
- Post Graduate Project II

| Electives

Discipline Electives

- Inorganic Spectroscopy
- Organic spectroscopy
- Hydrogen generation and storage
- Science & Technology of Nano-materials
- Bioinorganic Chemistry
- Spectroscopy, Microscopy & Applications
- NMR Spectroscopy
- Introduction to polymer science and technology
- Chemical Crystallography
- Fundamentals of Organic chemistry
- Reagents in organic synthesis
- Polymer synthesis
- Fluorescence spectroscopy, microscopy and its applications
- Advanced analytical techniques

Skills and projects

- Computational Chemistry
- Photo-catalysis
- Synthesis and Application of Nano-material
- Super Resolution Fluorescence Microscopy
- Organic Synthesis
- Food Packaging
- Energy Conversion
- Electrochemical Synthesis
- Metal-Based Catalysis
- Bio-Hydrogen Production
- Biomass Conversion



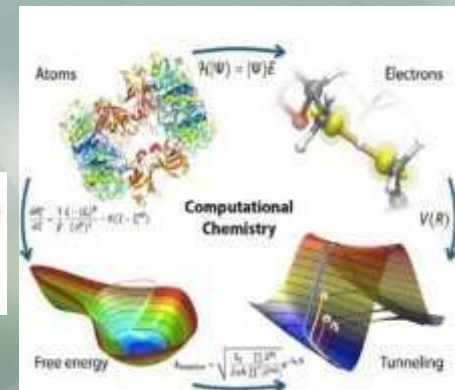
Mass spectrometer



NMR



TEM



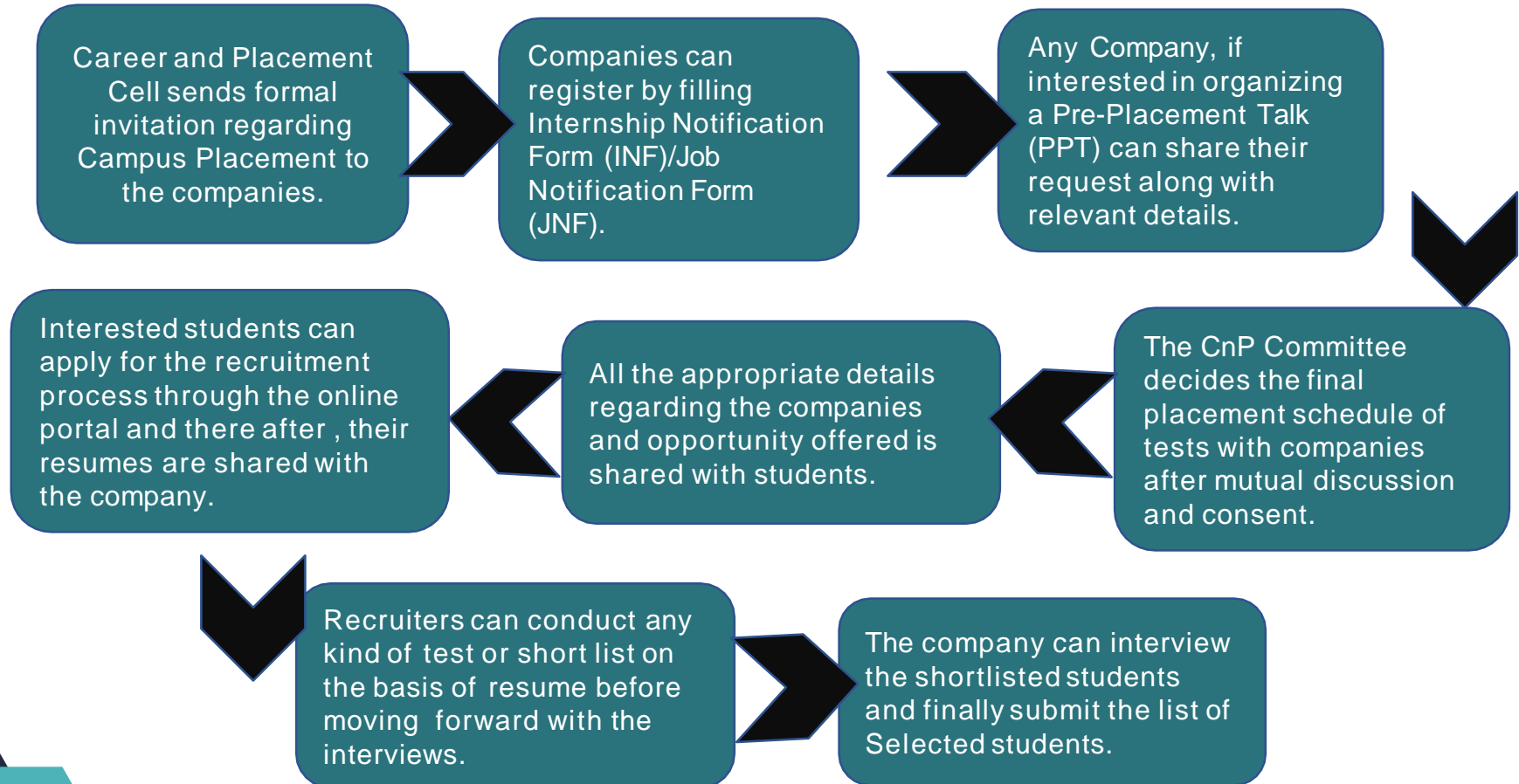
Computational chemistry



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- BYJU'S
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- Narayana
- Physics Wallah
- Aspire
- Sri Chaitanya
- Bakliwal Tutorials

| Placement Procedure



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