IIT MANDI

PLACEMENT BROCHURE
M.Tech
POWER ELECTRONICS
AND DRIVES (PED)
2025-2026



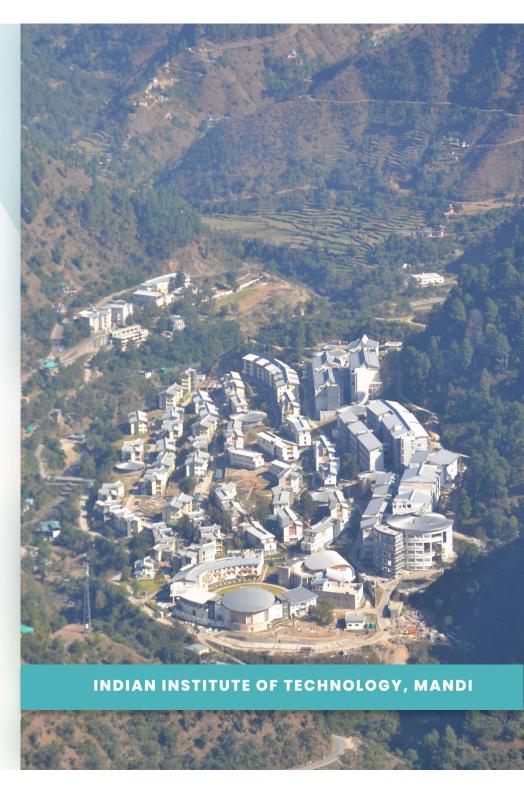
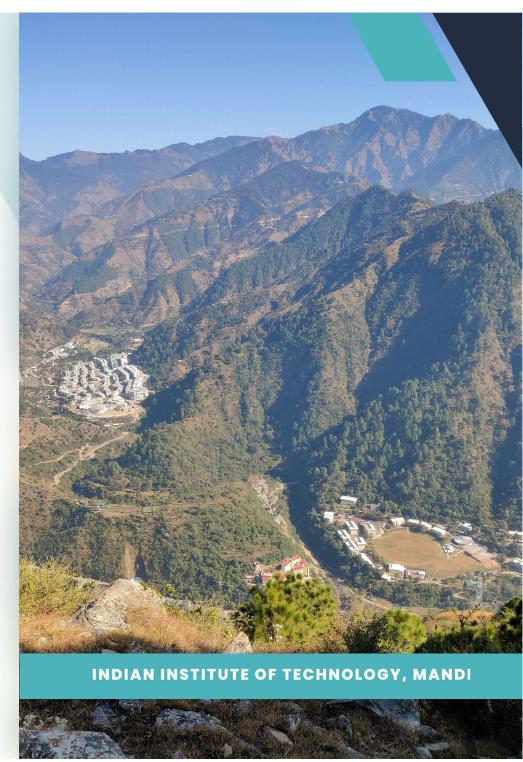


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From the Director



Prof Laxmidhar Behera
Director, IIT Mandi

I am pleased to welcome you to IIT Mandi, which is located on the 538-acre picturesque river valley in the Shivalik Range. Since its inception in 2010, IIT Mandi has consistently worked to nurture professionals with industry-ready skills. We achieve this by periodically revising the curriculum in consultation with academic and industry experts to keep it relevant to the fast-changing global human resource needs. Academic excellence is our greatest strength. Students are introduced to practical learning with innovative pedagogy very early into the training. This ensures that they are better prepared to succeed in ambitious corporate environments. We provide a learning environment to allow individuals to express their passion and apply their innate abilities to solve real-world problems.

In the first year, the B.Tech. students participate in the Foundations of Design Practicum: Robotics and Reverse Engineering course which introduces them to existing engineering systems with hands-on experience. Design Practicum introduced in the second year to our B.Tech. students enables them to get exposure to real-world engineering problem-solving with interdisciplinary collaborations. With a budget of Rs. 25,000, award-winning projects include an intelligent drip irrigation system, a 3D printer, an autonomous garbage collector, etc. Socio-Technical Practicum introduced during B.Tech. 3rd year provides exposure to the impact of new technologies on society, often doing fieldwork in villages and towns in the neighborhood. Typical projects include alleviating traffic congestion in Mandi town, mechanization in terraced farms in the Himalayas, and education and livelihood for village women. These interdisciplinary and group projects build up perseverance, leadership, connection with society, and the opportunity to apply their technical skills.

The M.Tech. and M.Sc. degree programs contain a substantial component of thesis work relying heavily on practical learning aspects for over two semesters. In this open-ended thesis, students learn to work independently and in great depth on a research problem. The thesis contains globally novel contributions to the discipline in some aspects. Thus, the Master's graduates are well suited to take a lead role. The institute also encourages the student to explore collaboration and to work on projects guided by industry experts for their thesis. Research by our MS and Ph.D. students has achieved global recognition in international journals and conferences.

From the Director

In addition, the diaspora of student-driven extracurricular activities creates a lively learning environment and provides leadership abilities and confidence in our students. All this is impossible without the support of our able faculty, who give a holistic learning experience with their excellent teaching and exposure to cutting-edge research and publication in the best international scholastic journals. We have a total faculty strength of 189 active in research and teaching in several areas of engineering, sciences, and the humanities. Faculty have received research grants totaling over Rs. 160.7 crores and the Institute has invested heavily in developing state-of-the-art lab infrastructure. Our faculty members are also involved in mentoring startups supported by our Technology business incubator, IIT Mandi Catalyst. The IIT Mandi Catalyst supported 460+ startups and disbursed about INR 20+ crores for prototyping and commercialization of diverse start-ups in clean energy, environment, health care, agriculture, enterprise management, biotech, education, manufacturing, and consumer internet. The fact that about 37 of the total start-ups have been founded by the IIT Mandi faculty, staff, and students underlines the innovative and entrepreneurial spirit of IIT Mandi once again.

The IIT Mandi alumni have done extremely well, as evident from receiving the youngest scientist award in the Indian Science Congress, INYAS award, etc. Our current alumni strength is over 1513 B.Tech, 114 MS, 509 M.Tech, 392 MSc, 48 MA, and 8 I-Ph.D., and 288 Ph.D. graduates. Our alumni have excelled in different spheres of academia, industry, and central government administration, thanks to our innovative curriculum. Most of these alumni have been hired by top multinational companies, a few have chosen higher studies in leading universities and several of them are serving different administrative positions in the Govt. of India including IAS.

On behalf of the faculty and students of IIT Mandi, I invite you to participate in our placement process. I am confident that you will find it a rewarding experience!

Prof. Laxmidhar Behera Director, IIT Mandi

From the Faculty Advisor



Dr. Kala Venkata Uday

During the short span of fourteen years of its existence, the Indian Institute of Technology Mandi (IIT Mandi) has gained a reputation for its cutting-edge research and innovative teaching programs focusing on up-to-date scientific knowledge and state-of-the-art technological know-how in their respective disciplines. The institute prides itself on creating an environment that empowers young minds by developing intellect and versatility, broadening horizons, creativity and honing interpersonal skills with the help of our top-notch faculty and staff. With the intent of shaping the students into responsible engineers and scientists, the unique curriculum at IIT Mandi strives to expose students to strong fundamentals of engineering, basic sciences and humanities while simultaneously sensitizing them to human values and society. Similarly, the institute's focus on research at the fore-fronts of various areas of science and technology has resulted in significant contributions and responsible researchers.

Apart from the technological development of our students, they also participate/organize in a multitude of extra-curricular activities, which exposes them to and tests their skills in sports, culture, dramatics and music and allows them to develop a healthy overall personality. This has brought several awards to the institute at national and international levels. The students also gain first-hand experience in organizing and managing events through various leadership positions they take up during several annual events organized at IIT Mandi.

The Career and Placement Cell (CnP) invites organizations that 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. We welcome suggestions from your organization that will help us realize it. On behalf of the CnP team at IIT Mandi, I assure you of the prodigious talent of our students and feel privileged to invite your esteemed organization to recruit our students. We look forward to the enthusiastic participation of your organization in our 2025–2026 campus placement process and a lasting and mutually satisfying relationship with your organization.

Dr. Kala Venkata Uday

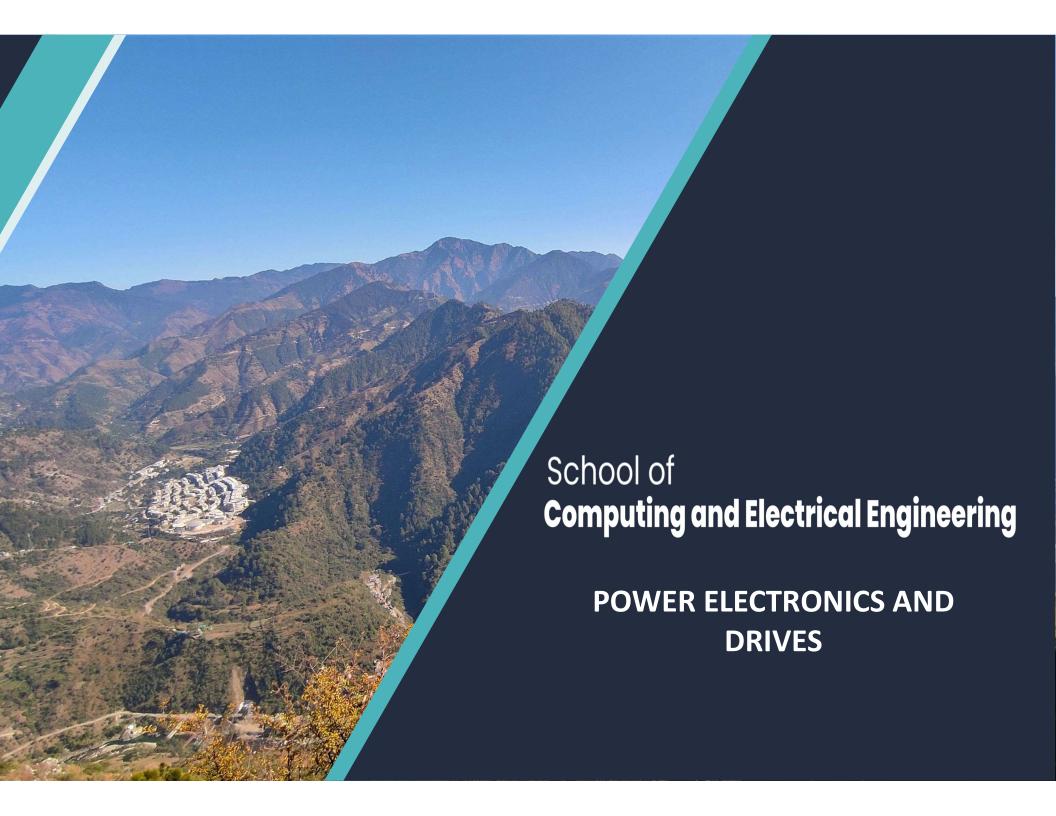
Faculty Advisor

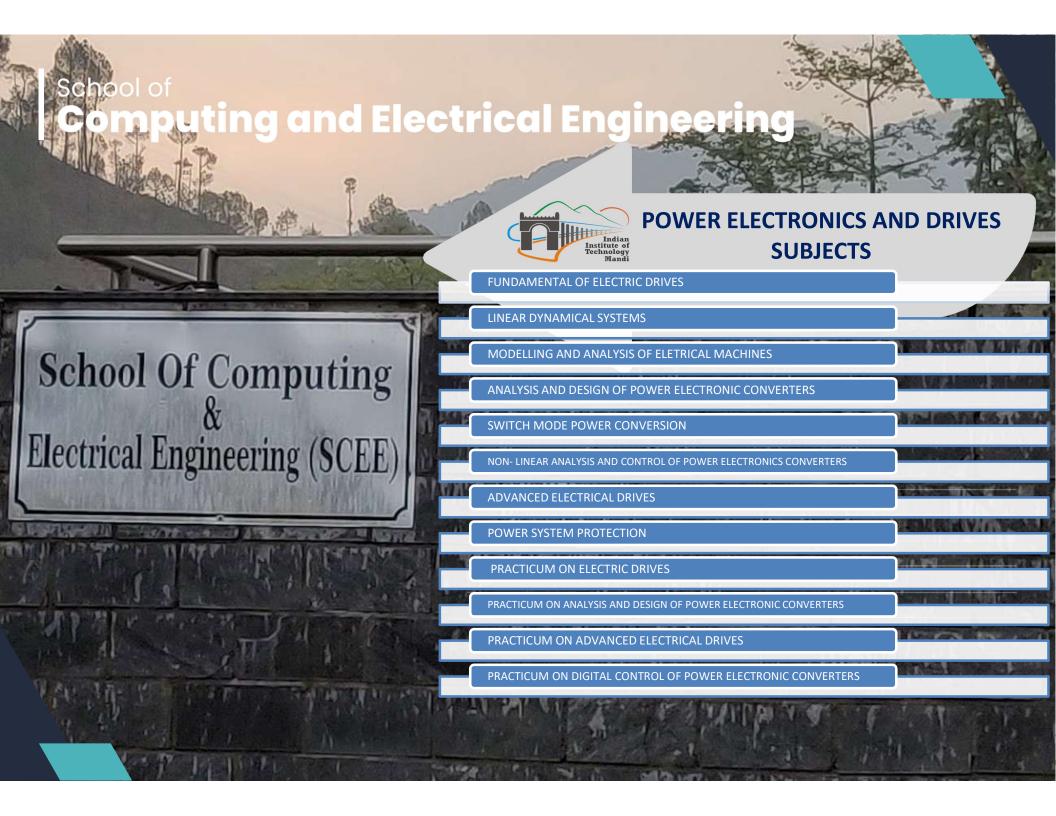


| About IIT Mandi

Indian Institute of Technology, Mandi is a premier public technical and research institute located in the 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-the-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.





| Faculty



Dr. Dwijasish DasAssistant Professor



Dr. Amit Kumar Singha
Assistant Professor



Dr. Tushar JainAssociate Professor



Dr. Himanshu MisraAssistant Professor



Dr. Moumita DasAssociate Professor

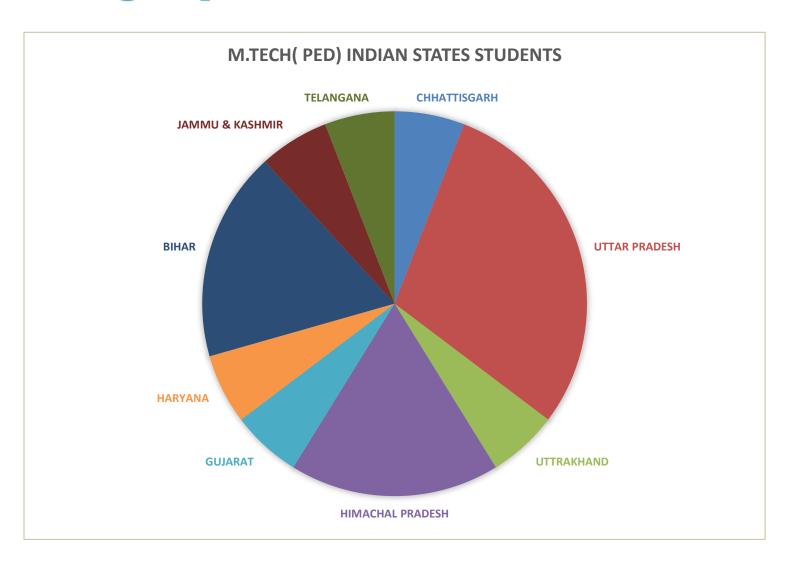


Dr. Venkata Ratnam VakacharlaAssistant Professor



Dr. Pratim KunduAssistant Professor

Demographics



Student Activities

Presented a research paper at ECCE Asia 2025, Bangalore, marking a significant academic milestone in the field of power electronics. The experience offered valuable exposure to global innovations and interactions with leading researchers, fostering motivation for future impactful contributions.



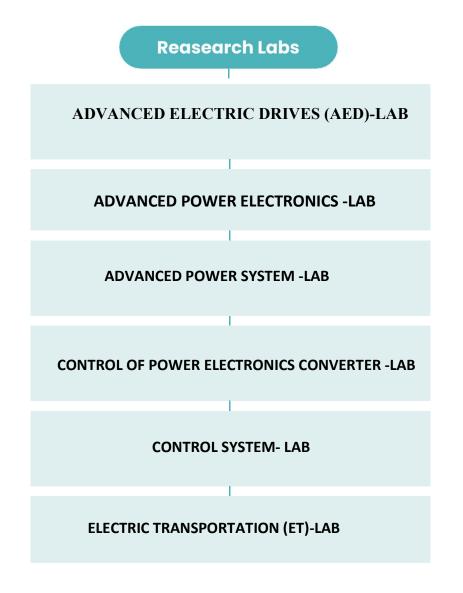


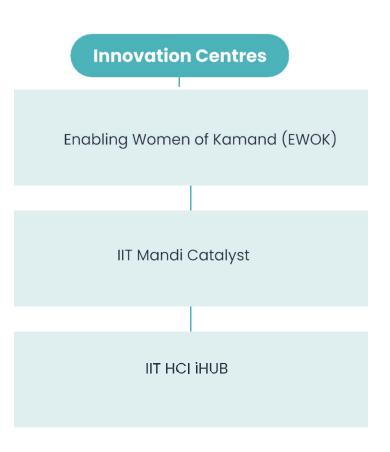




Contributed to impactful EV research at IIT Mandi, focusing on regenerative braking in hilly terrains. Developed and simulated an innovative inverter-integrated braking system, enhancing energy recovery by 18.6%. Engaged in experimental validation, technical documentation and interdisciplinary teamwork, showcasing strong problem-solving, innovation and application-oriented research capabilities in electric mobility.

Research and Development





Our Recruiters









































Honeywell



SIEMENS



HITACHI



Why Recruit Us?

Students from the Power Electronics and Drives specialization at IIT Mandi are trained to address real-world challenges in energy conversion, electric mobility and advanced power electronic systems. The curriculum blends strong theoretical foundations with intensive hands-on experience in simulation, control and hardware prototyping.

- ♣Industry-relevant Projects: Students actively engage in research and industry-collaborated projects in EV powertrains, converter topologies, motor drives and gridtied systems.
- **Advanced Lab Infrastructure:** Equipped with state-of-the-art laboratories including dSPACE, MATLAB/Simulink and high-voltage test setups.
- ♣ Practical Exposure: Emphasis on system-level thinking, EMI/EMC analysis, thermal design and closed-loop control of power converters.
- **Holistic Development:** Participation in technical conferences, internships with top core industries and soft-skills training ensures graduates are job-ready and team-oriented.

Recruiting from this cohort guarantees technically sound, research-driven and industry-ready engineers prepared to contribute from day one.



Career and Placement Cell (CnP) , IIT Mandi sends formal invitation and relevant information regarding Campus Placement to the companies



8. The company can interview the shortlisted students and finally submit the list of selected students.



2. Companies can register by filling Internship Notification Form (INF) / Job Notification Form (JNF).



Procedure



 Any company, if interested in organizing a Pre-Placement Talk (PPT) can share their request along with relevant details.



6. Interested students can apply for the recruitment process through the online portal and thereafter, their resumes are shared with

7. Recruiters can conduct any kind of test or

forward with the interviews.

shortlist on the basis of resume before moving



4. The CnP cell decides the final placement schedule of tests with companies after mutual discussion and consent.



5. All the appropriate details regarding the company and opportunity offered is shared with students

the company.

Contact Us



CAREER AND PLACEMENT CELL

Indian Institute of Technology Mandi

Himachal Pradesh – 175005, India

Email: placement@iitmandi.ac.in

Phone: +91-1905-267006

CnP FACULTY ADVISOR

Dr. K. V. Uday

Email: advisorcnp@iitmandi.ac.in

FACULTY ADVISOR, TRAINING & INTERNSHIP (Tnl)

Dr. Rahul Shrestha

Email: advisor tni@iitmandi.ac.in

FACULTY ADVISOR (M.Tech - PED)

Dr. Dwijasish Das

Email: dwijasish@iitmandi.ac.in

STUDENT PLACEMENT COORDINATOR (OVERALL - PG)

1. Aman Pant

Email: t24126@students.iitmandi.ac.in

2. Kashish Chaudhary

Email: t24005@students.iitmandi.ac.in

STUDENT PLACEMENT COORDINATOR

(M.Tech - PED)

1. Awanish Kumar

Email: t24146@students.iitmandi.ac.in

2. Ch Chandrashekhar Rao

Email: t24039@students.iitmandi.ac.in