



Joint Degree Program-2025
Between IIT Mandi and PEC Chandigarh
Semester: Odd(August-Dec, 2025) **AY: 2025-2026**

Project wise List of Provisionally Selected Candidate(s)

(IIT Mandi -Home institute)

S.No	Project Title	Name of Guide (IIT Mandi)	Host Institution (PEC, Chandigarh)	Provisionally Recommended Candidate(s) Form No.
1	Development of Automatic Solar Panel Cleaning Robot for Soiling Mitigation and Reduced Power Derating	Prof. Dipankar Deb	Dr. Ajay Kumar	IITMANDI-JDP0000273
2	4D printing of polymer composites for biomedical applications	Dr. Prateek Saxena	Dr. Jasvinder Singh	NFS
3	Machine Learning Assisted Phase-Field Modeling of Fracture Behavior of Particulate Composites	Dr. Rajkiran	Dr. JD Sharma	NFS
4	Development of Semiconductor Devices for Flexible Electronics	Dr. Rahul Vaish	Dr. Arun Kumar Singh	NFS
5	Fabrication, testing and machine ability of Magnesium based MMC for biomedical applications.	Prof. Mohammad Talha	Dr. Mohinder Pal Garg	NFS
6	Molecular dynamics based investigation of High Entropy Ceramics	Dr. Raj Kiran	Dr. Gurpreet Singh	Yet to be declared
7	Materials for environmental applications	Dr. Satvasheel Ramesh Powar	Dr Sandeep Kumar	NFS
8	Effect of various ceramic materials on the operational features of solar thermal collectors	Dr. Satvasheel Ramesh Powar	Dr. Kaustubh R. Kambale	NFS
9	Droplet impact and spreading dynamic on a heated surfaces under microgravity	Dr. Parmod Kumar	Dr. Lokesh	IITMANDI-JDP0000345
10	Mechanical and Tribological behavior of Aluminum metal matrix composites reinforced with Industrial Waste	Dr. Sandeep Sahu	Dr. Jimmy Karloopia	IITMANDI-JDP0000366
11	Development of Multi-Scale Hybrid Reinforced Metal Matrix Composites via Stir Casting and Friction Stir Additive Manufacturing	Dr. Prateek Saxena	Dr. Jimmy Karloopia	IITMANDI-JDP0000381
12	Fabrication and Tribological Performance of Functionally Graded Self-Lubricating Metal Matrix Composites	Dr. Sunny Zafar	Dr. Jimmy Karloopia	NFS
13	Supply Chain Performance aligned with Green Credit System	Dr Satvasheel Ramesh Powar	Dr Mohit Tyagi	NFS

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