

Kamand, Himachal Pradesh - 175075

Second Round of Admissions in M.Tech (Research), Dual degree(M.Tech Research +Ph. D) and Ph. D. Programs School of Mechanical and Material Engineering, IIT Mandi

School of Mechanical and Materials Engineering of IIT Mandi is inviting applications for the second round of admission process in the M.Tech (by Research), Dual Degree (M.Tech + Ph. D) and Doctor of Philosophy (PhD) programme in a variety of disciplines and interdisciplinary areas under Regular Full-Time, Self-Sponsored and Part-Time mode. Candidates from the reserved categories (OBC-NCL, SC, ST, EWS) are encouraged to apply against this advertisement to fill vacant seats in the above mentioned programs.

Available Program and Specializations for Admissions:

S.No	Program	Discipline	Broad Research Areas
1.	Ph.D. / M.Tech	Mechanical	Acoustics; Solid Mechanics and Design; Computational Solid Mechanics; Continuum
	(Research) /	Design	Mechanics; Fracture-Fatigue; Functionally Graded Materials; Mechanics of Composite
	Dual degree (M .Tech +		Materials; High Technology Materials and Structures; Machine Design; Vibration; Smart
	Ph. D)		material/Structure; Piezoelectric Energy Harvesting; Finite Element Method; Modeling &
			Control; Biomechanics; Orthopedic Biomechanics; Implant Design; Bone & Biomaterial
			Fracture; Deformation induced emissions; Structural health monitoring; Smart materials and
			structures; Vibration energy harvesting.
2.	Ph.D. / M.Tech	Fluid Thermal	Alternative Fuels; IC Engines; Emissions Control; Experimental Fluid Dynamics;
	(Research) /		Spray Atomization & Combustion; Advance Laser Diagnostics & Image Processing; Snow
	Dual degree (M .Tech +		avalanche dynamics; Multiphase flows; Computational fluid dynamics; Population balance
	Ph. D)		modelling; Non-Newtonian fluids; Fluid Mechanics; Thermal Science and Engineering;
			Thermal Radiation; Solar Radiation; Collimated Beam Radiation; Non-gray Radiation;
			Interface capturing; Mesoscale simulations; Probes and instrumentation for two-phase flow;
			Experimental Nanofluidics; Liquid Phase Electron Microscopy; Machine learning and CFD;
			Mineral processing.
3.	Ph.D. / M.Tech	Manufacturing	Additive Manufacturing (Metal, Polymer – Particulate; Short and Continuous fiber;
	(Research) /		Ceramics); Cyber Security in Additive Manufacturing; AI and Machine learning in
	Dual degree (M .Tech +		Manufacturing ; Design and development of Composites for specified application ; Waste
	Ph. D)		utilization; Additive manufacturing (Extrusion based Metal and Continuous Fiber);
			Reinforced composites 3D printing; Highly filled (metal, short fibre filament production);
			LCA; Advanced Manufacturing; Perovskite Solar Cells; Solar Thermal utilization; Energy
			Storage; Advanced Manufacturing Processes for Polymer Composites; Sustainable Bio-
			composites; Recycling of Polymer Composites; Surface Engineering and Experimental
4			Tribology
4.	Ph.D. / M.Tech (Research) /	Materials Engineering/	Glasses for Electrical Applications; Solid State Refrigeration; Pyroelectric Energy Harvesting
	(Research) / Dual degree (M .Tech +	Materials	Materials and Methods; Piezoelectric Energy Harvesting Materials and Methods; Carbon
	Ph. D)	Science	based micro/ nano devices; Microstructure and crystallinity of sp2 carbons; Waste-derived
			carbon; Nano-manufacturing for Electronics Sensor and Micro supercapacitor applications;
			Vapor Phase Growth(CVD, PVD & ALD) of Functional Nanostructures and Thin films; Phase
			Transition in Functional Oxide Materials and Thin Films; Nano-mechanics of Phase Change
			Materials and 2D Materials; Analytical Microscopy and Imaging; Drug Delivery System;
			Biosensors; Micro porous membranes; Multifunctional hybrid material; Condensed Matter Physics and Materials Science; Carbon materials and applications
5.	M.Tech (Research)	Computational	Computational Solid Mechanics; Finite element modeling; Computational fluid dynamics
5.	191. I COI (INCOCAI CII)	Mechanics	and heat transfer; Non-Newtonian fluid dynamics; Multi-phase flow; Numerical solution of
			partial differential equations.
			אמו נומו עוווכו בוונומו בעעמנוטווג.

For more details about the Programme at IIT Mandi, please visit: https://www.iitmandi.ac.in/pdf/ordinances//Ordinances_Ph.D.pdf https://www.iitmandi.ac.in/pdf/ordinances/Ordinances_MTech(R).pdf

Minimum Eligibility Criterion for Appearing in Admission Process:

The candidate must fulfil any one of the criterion mentioned below in the table:

	Bachelor's degree in Engineering/Technology or equivalent with a valid GATE score; OR	
	Master's or equivalent degree in Science (or allied subjects) with a valid GATE score; OR	
For admission in	Bachelor's degree in Engineering/Technology or Master's or equivalent degree in Science	
Ph.D.	with experience of two years or more in a reputed R&DOrganization with a proven research record.	
	B.Tech. /B.E./ B.S. (or equivalent) degree from CFTI (Centrally Funded Technical Institute) / any of the top	
	100 institutes according to NIRF ranking (overall category) at the time of application / any Himachal Pradesh	

Indian Institute of Technology Mandi



Kamand, Himachal Pradesh - 175075

	Govt. institution or universities with CGPA/CPI of at least 7.5 (on a scale of 10) or equivalent. OR
	Master's or equivalent degree in Engineering/Technology
	Bachelor's degree in Engineering/Technology or equivalent with a valid GATE score; OR
For admission in	Master's or equivalent degree in Science (or allied subjects) with a valid GATE score; OR
M.Tech.	B.Tech. /B.E./B.S. (or equivalent) degree from CFTI (Centrally Funded Technical Institute)/ any of the top
(Research)	100 institutes according to NIRF ranking (overall category) at the time of application/ any Himachal Pradesh
	Govt. institution or universities with CGPA/CPI of at least 7.5 (on a scale of 10) or equivalent.
	Bachelor's degree in Engineering/Technology or equivalent with a valid GATE score; OR
For admission	Master's or equivalent degree in Science (or allied subjects) with a valid GATE score; OR
in Dual Degree (M .Tech +	B.Tech. /B.E./B.S. (or equivalent) degree from CFTI (Centrally Funded Technical Institute)/ anyof the top
(NI . I ech + Ph. D)	100 institutes according to NIRF ranking (overall category) at the time of application/any Himachal Pradesh
I II. D)	Govt. institution or universities with CGPA/CPI of at least 8.0 (on a scale of10) or equivalent.

Notes:

- GATE/national level exam score is exempted for the candidates applying under self-sponsored and part-time mode. However, they will not get scholarship during the program study from the institute.
- The first choice/preference will be considered for processing the application; candidates are advised to fill choice of discipline on the application portal accordingly. Candidate should submit separate application for multiple discipline/programs.
- Mode of Interview: The shortlisted candidate will be called for interview. Interview will be in hybrid mode (both online and offline).
- Reservation policies as per prevailing GoI rules will be followed. IIT Mandi reserves the right to admit / not admit for any of the advertised areas.
- For each specialization and program, candidate should submit a separate application with the application fee.
- The decision of the competent authority in all matters relating to the eligibility of the candidate, written test/Interview and admission would be final and binding on all the candidates. In case of any dispute/ambiguity that may occur in the process of admission the decision of the Institute shall be final.
- All the details furnished in the online application will be treated as final and no changes shall be entertained. Non submission of valid/required documents and/or incomplete application shall be summarily rejected.

Application Procedure:

Candidates should submit their application on Samarth application portal link given below: https://iitmandiadm.samarth.edu.in/aug24/index.php/

For any other queries related to the this admission process you may contact smmeadmissions@iitmandi.ac.in or 01905-267138

Application Fee:

Category	Amount in ₹
General/EWS/OBC/OBC(NCL)/Transgender/Foreign Nationals	200
Women/SC/ST/PD	100

One application fee is valid for the single application. The application fee is non-refundable.

Important Dates:

Last date for filling Online Application	5PM (IST) of 30 June 2024			
Interview	Tentatively 18-19July 2024 (To be			
	announced on IIT Mandi webpage)			
