Indian Institute of Technology Mandi Kamand, Himachal Pradesh - 175075



Date: 18.01.2024

2nd Round of Admissions in Ph.D, Dual Degree (M.Tech(R)+Ph.D) & M.Tech (Research) at Centre For AI & Robotics, IIT Mandi

Centre for AI & Robotics, IIT Mandi is inviting applications for admission in the Ph.D., Dual Degree (M.Tech (R)+Ph.D.) & M.Tech (Research) programme in a variety of disciplines and Interdisciplinary areas under Regular Full-Time mode.

Available Program and Specializations for Admissions:

Broad Research Area	Specific Areas (but not limited to)	Branches
Drones	 Aerial manipulation Autonomous navigation and control In GPS denied environment. Drone analytics Nano Drones Drone application for Surveillance and Industrial Structure Inspection Swarm Drones Novel propulsion mechanism for Drones Airborne sensors such as Lidar, Multispectral Cameras Drone Electronics Energy management of Drones 	Master's / Bachelor's degree in: Mechanical Engineering /Electrical and Electronics Engineering/ Electrical and Communication Engineering / Computer Science Engineering/Information Technology/ /Instrumentation and control/ Mechanical (Robotics) / Automation Engineering/Automobile Engineering/ Industrial Engineering/Aeronautical/ Aerospace Engineering.
Multi-Agent Systems	 Visual Servoing Visual Robot Programming Multi-agent Systems Swarm Robotics Formation control Collision Avoidance Autonomous navigation Human-Robot Collaboration 	
Robotics	 Grasping and manipulation Collaborative manipulation Teleoperation Legged Robotics Marine Robotics 	
AI & Robotics for Biomedical Applications	 Generative AI tools for Enhanced sampling of biomolecules Drug Target identification In Silico protein-protein interactions Machine learning for molecular/drug design Nano robots for sensing and diagnosis Image-guided surgery intervention Robot-assisted surgery 	
Cyber-Physical Systems (CPS) and Connected and Autonomous Vehicles (CAVs)	 Driverless Cars Cloud-Facilitated Control of CAVs Optimal control of CAVs Intelligent control in CPS Electric and Hybrid Electric Vehicles 	

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Cyber Security	 Cyber security of connected systems AI/ML based threat detection and protection AI/ML based analysis of cyber-Attack and Deep fake Detection
AIML for Robotics	Robot Learning
	• Robotic Inspection and AIML based anomaly detection.
	• Predictive maintenance of Industrial Structures based on data from Intelligent agents.
	• NLP (LLM) integration with Robotic Agents
	Reinforcement Learning for Robotic Agents
	Generative AI for training of Robotic agentsDeep Learning for Robotics

Minimum Eligibility Criteria for Appearing in Admission Process:

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

For admission in Ph.D.	I. Master's degree in Engineering/Technology. OR II. B.Tech. /B.E. from Centrally Funded Technical Institutes (CFTIs), with a minimum CGPA of 7.5 on a 10.0 point scale (or equivalent). OR III. B.Tech. /B.E. from Non-CFTIs with a valid GATE score or other equivalent national exam qualification (Validity required at the time of joining) and CGPA of at least 7.5 out of 10.0 (or equivalent). OR IV. Any Himachal Pradesh Govt. Institutions or universities with CGPA/CPI of at least 7.5 (on a scale of 10) or equivalent.
	Bachelor's degree in Engineering/Technology with a valid GATE score; OR
For admission in M.Tech. (Research)	B.Tech. /B.E. 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 Govt. Institutions or universities with CGPA/CPI of at least 7.5 (on a scale of 10) or equivalent.
For admission	Bachelor's degree in Engineering/Technology with a valid GATE score; OR
in Dual degree	B.Tech. /B.E. from CFTI (Centrally Funded Technical Institute)/ any of the top 100 institutes according to
(M . Tech (R) +	NIRF ranking (overall category) at the time of application/ any Himachal Pradesh Govt. Institutions or
Ph. D)	universities with CGPA/CPI of at least 8.0 (on a scale of 10) or equivalent.

Notes:

- Mode of Interview: The shortlisted candidate will be called for an interview. Interview will be online mode).
- 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, candidates 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.

Link to the online application:

https://iitmandiadm.samarth.edu.in/2024/index.php/site/index

Application Fee:

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

Mode of Payment: SBI Collect Portal.

For any problems regarding filling out online applications, Please contact it_helpdesk@iitmandi.ac.in

Important Dates:

Last date for filling Online Application	24 th January 2024 (5:00 PM)
Tentative date of Interview (online)	27 th January 2024

Note:

The Interview link will be sent to shortlisted candidates.

IIT Mandi reserves the right to recruit/ not recruit for any of the advertised areas and apply appropriate criteria for shortlisting candidates.

For any queries related to the admission process you may contact cairoffice@iitmandi.ac.in

Ph: 01905-267791
