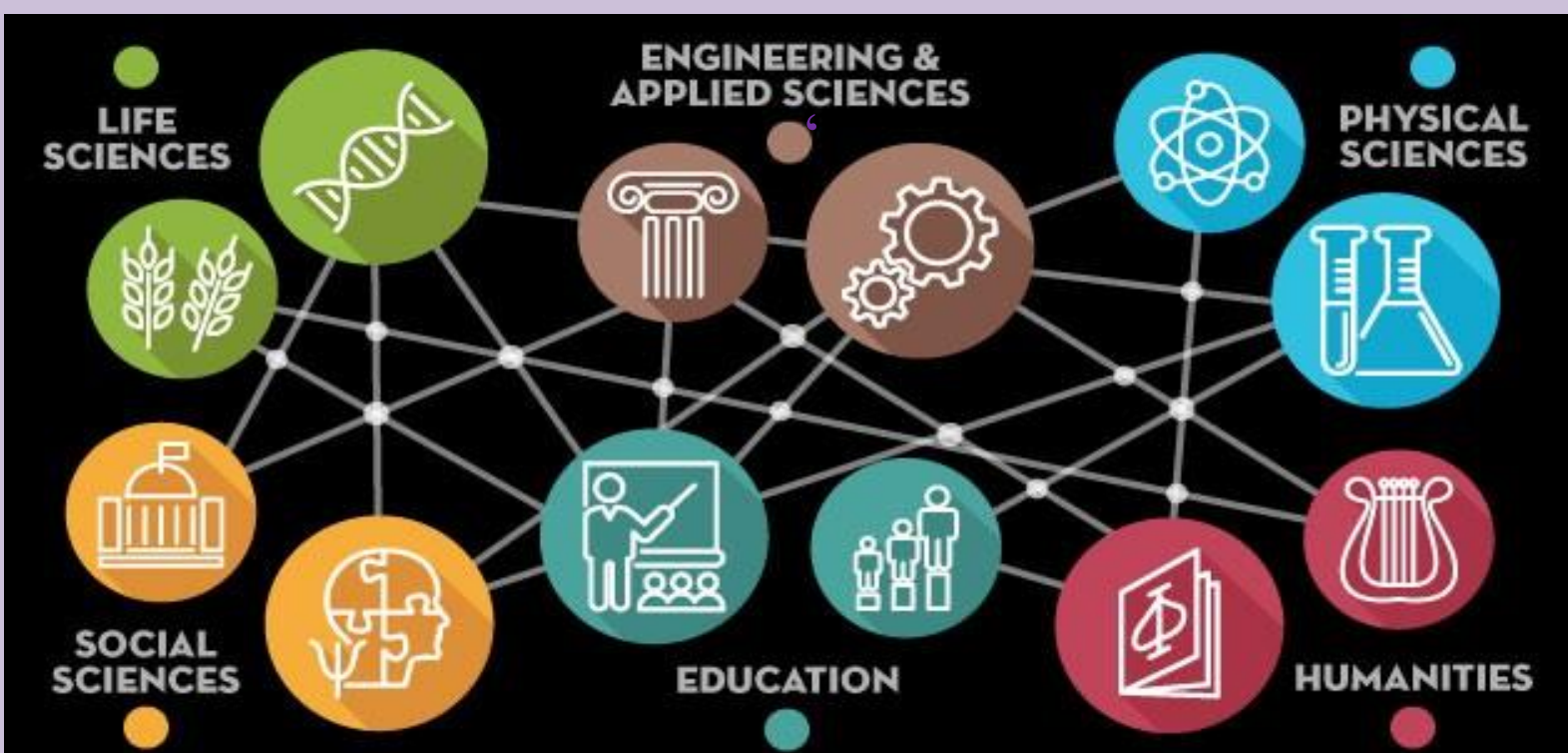Indian Institute of Information Technology
Design and Manufacturing Kurnool

Information Brochure

Ph.D. admissions
July 2025 Session

Centre for Interdisciplinary Research

About the Centre for Interdisciplinary Research:

IIITDM Kurnool announces Interdisciplinary (ID) PhD program for enthusiastic aspirants exploring the interface of various science and engineering disciplines. The ID PhD Program involves rigorous course work (12 or 24 credits depending on the academic background of students) followed by research work in an interdisciplinary research topic leading to a doctoral thesis.

Vacancies:

Full-Time Ph.D.	
Institute Fellowship (HTRA)	10

Eligibility Criteria for Full-Time Ph.D.:

Applicants holding Master's degree:

- **Minimum Education Qualifications:** Applicants with a postgraduate degree (M. Tech. / M.E. / M.Sc. /M.S. (Research) or equivalent) in a relevant branch/specialization from any institute with a CGPA of 6.5/10 or 60% for UR/OBC/EWS category and CGPA of 6.0/10 or 55 % for SC/ST/PwD category.
- **Screening and Selection:** Entrance Test* and/or Interview. (* based on the number of applications received)

Direct admission to PhD with Graduation (B.E. / B. Tech. /B.S.):
Minimum Education Qualifications:
- Applicants with a Bachelor's degree (B. Tech. / B.E. / B.S. or equivalent) in a relevant branch/specialization from any CFTI with a CGPA of 7.5/10 or 70% for UR/OBC/EWS category and CGPA of 7.0/10 or 65 % for SC/ST/PwD category. (**GATE Qualification is not Mandatory**)

- Applicants with a Bachelor's degree (B. Tech. / B.E. / B.S. or equivalent) in a relevant branch/specialization from any **non-CFTI** with a CGPA of 7.5/10 or 70% for UR/OBC/EWS category and CGPA of 7.0/10 or 65 % for SC/ST/PwD category. (**GATE Qualification is Mandatory**)
- **Screening and Selection:** Entrance Test* and/or Interview. (* based on the number of applications received)

- In cases where the candidates are directly admitted to the PhD programme in Engineering /Sciences with a Bachelor's Degree in Engineering/Technology, the scholar should successfully complete prescribed courses (Coursework) with a minimum of 24 Credits.

Broad research areas:

- Design, Simulation and Development of Near IR Photodetectors
- Modeling and Fabrication of High Energy Density Flexible Super Capacitors
- Quantum Machine Learning - Application to structural optimization
- Privacy-Preserving Cryptography for Block-chain Applications
- Cache template attack on block ciphers
- High Performance Hardware Accelerators on Physical Systems using FPGA
- High Performance Hardware Accelerators on Theoretical Computer Science using FPGA and ASIC Technologies

- High Performance Hardware Accelerators on Steganography using FPGA and ASIC Technologies
- High Performance Network on Chip (NoC) Design using Instruction and Data Level Parallelism
- High Performance Hardware Accelerators on Finite Element Analysis
- Experimental and machine learning assisted design and development of high capacity fast charging EV thermal management systems
- Skyrmion devices for memory and logic applications
- Design of Portable NMR spectrometer for identification Protein interactions
- Design of hardware accelerators for LLMS in healthcare
- AI-Driven Robotic Navigation and Path Planning for Autonomous Exploration in Complex Terrains
- Open Quantum Control Systems.

Convener/coordinator of Ph.D. admissions and contact details:
- Academic Section: 08518289-121

Important Dates:

Web notification of the PhD Advertisement	05-05-2025
Online application registration process start date	05-05-2025
Last date for the submission of online Application form	25-05-2025
Notification of shortlisted candidates for Interview/Written Test	29-05-2025
Tentative dates for Interview/Written Test	16-18th June 2025
Publication of Final Results	20-06-2025
Last date for seat acceptance and fee payment:	29-06-2025
Reporting to the Institute	02-07-2025