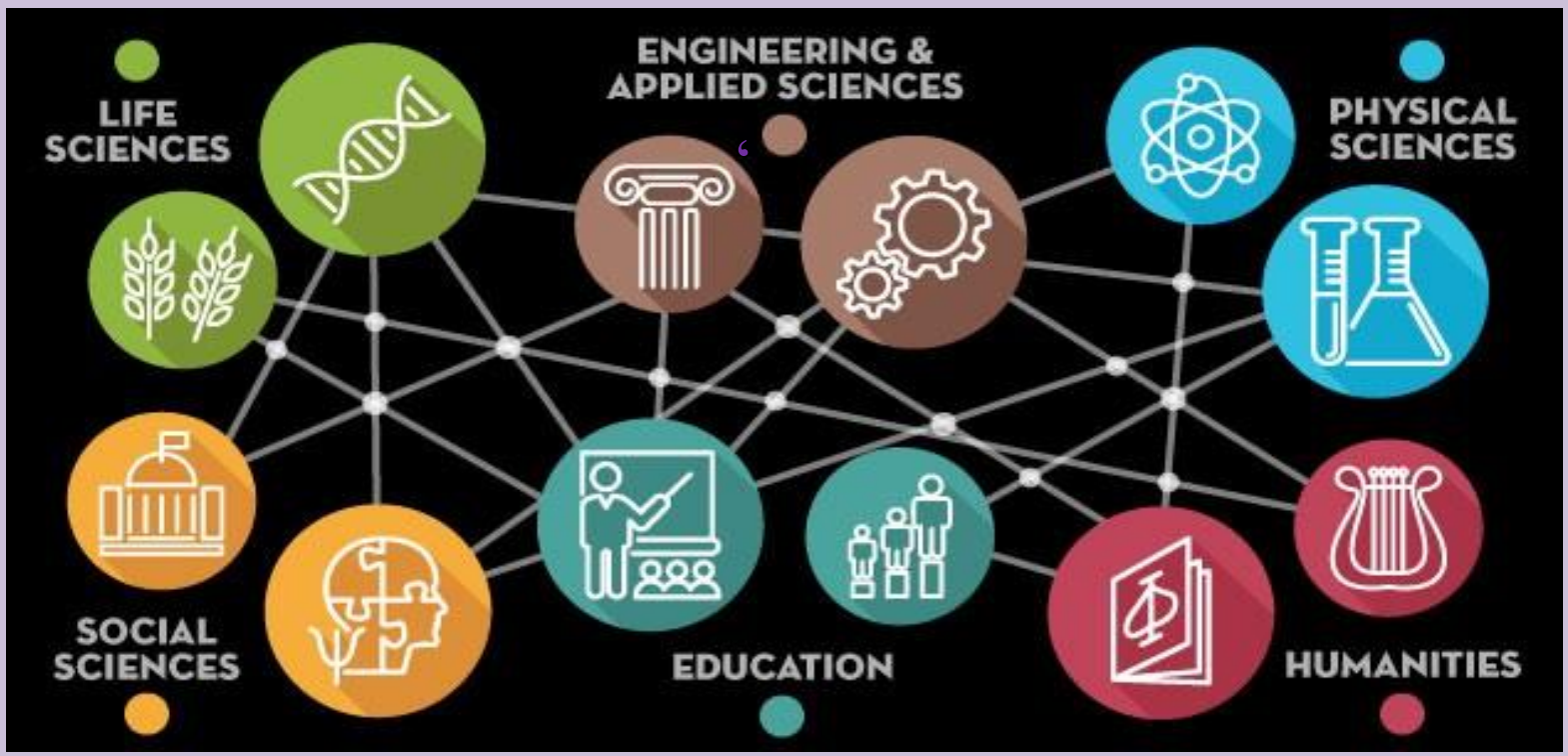
Indian Institute of Information Technology Design and Manufacturing Kurnool

Information Brochure

Ph.D. admissions
January 2026 Session

Interdisciplinary Research and Drone Technology



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.

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**)

Age Criteria: (By the last date of apply for Ph.D.)

Full-Time: 30 Years and relaxation for OBC/SC/ST as per the GoI rules.

Screening and Selection:

a) The Academic Section will conduct the shortlisting and selection process.
b) Eligible candidates possessing the minimum educational qualifications and satisfying additional criteria set by the institute from time to time only will be called for the written test and/or Interview.
c) An entrance examination shall be conducted for all the applicants (Full-Time) who does not have GATE or NET qualification.
d) The syllabus for the written test and/ or Interview is **GATE 2025 syllabus in respective subject (Station Department).**
e) Applicants with a valid GATE or CSIR/UGC-NET qualification will be directly eligible for the interview.
f) The question paper for written exam will consist of 50 MCQ based on the GATE/NET syllabus.
g) Each question will carry 2 marks, with a negative marking of 0.5 marks for every incorrect answer.
h) The cut-off marks shall be determined in line with the GATE 2025 standards.
i) The exam will be conducted either in CBT (Moodle) mode or offline based on number of applications.
j) Based on the academic record and the performance of the candidates in the written test and/or Interview test, the selection committee will finalize the applicants for admission to the Ph.D. programme.

Broad research topics under Interdisciplinary:

- Investigating on explainable novel artificial neural network architectures based on probabilistic models.
  Station Department: CSE

- High Performance secure channel design in IoT/CPS applications and the counter measure of the side channel attacks (cache timing attack and power attack).
  Station Department: ECE

- Real-time Note Transcription for Hindustani Classical Music (HCM) using Embedded Machine Learning.
  Station Department: ECE

- Engineering Single-Atom Anchored 2D Catalysts for Efficient Degradation of Textile Industrial Wastewater.
  Station Department: Sciences (Physics)

- 3D printed Smart Biomedical Sensor Systems for Personalized Healthcare.
  Station Department: Mechanical Engineering.

- Design and Development of Advanced Fiber Optic Sensors Using 2D materials.
  Station Department: Sciences (Physics)

- Large Language Model-Augmented Embodied AI for Contextually-Aware Human-Robot Collaboration
  Station Department: CSE

- Development of machine learning–based predictive models for alloy design, process optimization, and performance evaluation of bioresorbable HEA-reinforced magnesium composites.
  Station Department: ME

- Machine Learning for Linguistics.
  Station Department: Sciences (English)

Topics under Drone Technology:

- Aerial Robotics.
- Electronic Warfare Applications for Drones.
- Guidance, navigation and control (GNC) for Drones.
- AI assisted Quantum Photonic Devices for Drones.
- Drones for Healthcare Industries.

Convener/coordinator of Ph.D. admissions and contact details:

- Academic Section: 08518289-121

Important Dates:

Web notification of the PhD Advertisement	26-11-2025
Online application registration process start date	26-11-2025
Last date for the submission of online Application form	10-12-2025
Notification of shortlisted candidates for Interview/Written Test	15-12-2025
Tentative dates for Interview/Written Test	22-23rd Dec 2025
Publication of Final Results	26-12-2025
Last date for seat acceptance and fee payment	29-12-2025
Reporting to the Institute	01-02nd Jan 2026