



**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY,
DESIGN AND MANUFACTURING, KURNOOL**
(An Institute of National Importance under Ministry of Education, Govt. of India)
Jagannathagattu, Dinnedevarepadu, Kurnool-518007, Andhra Pradesh
Ph: 08518-289-114 Fax: 08518-289-127

Admission to Ph.D Programme (Full/Part-time) commencing in July 2022

1. THE INSTITUTE

Indian Institute of Information Technology, Design and Manufacturing (IIITDM), Kurnool is an Institute of National Importance, established in 2015. It is fully funded and managed by the Ministry of Human Resource Development, Government of India. It is aimed to become a Centre of Excellence for pursuing Design and Manufacturing oriented Engineering Education and Research domains. As on date, the Institute is offering 4 B.Tech programmes in Computer Science and Engineering, Artificial Intelligence and Data Science, Electronics and Communication Engineering, and Mechanical Engineering and 3 M.Tech programmes in Computer Science and Engineering with specialization in Data Analytics and Decision Sciences, Electronic System Design, and Smart Manufacturing. In addition, Ph.D programmes, in Science and engineering departments are being offered.

2. ABOUT RESEARCH PROGRAMMES

The Institute offers full-time/part-time Ph.D. programmes in the Departments of Computer Science and Engineering, Electronics and Communication Engineering, Mechanical Engineering, Sciences (Mathematics, Physics, and English). Details of broad research areas for admission are provided at **Annexure 'A'**.

3. EDUCATIONAL QUALIFICATIONS & ELIGIBILITY

3.1 Full time Ph.D. admission:

3.1.1 Ph.D in Engineering :

(a) Applicants holding Master's degree: Candidates with a M. Tech/M.S. (Research) degree in Engineering/Technology in the appropriate branch of study with a good academic record. (First class with a minimum of 60% aggregate marks or CGPA \geq 6.5 (out of 10) in UG and PG)

SI. No.	Department	Eligibility
1	Computer Science and Engineering	Master's degree in Engineering/Technology. Preference will be given to those with M.Tech. /M.E. /M.S. degree in Computer Science and Engineering or equivalent. Should have been qualified in GATE exam any-time
2	Electronics and Communication Engineering	Master's degree in Electronics and Communication Engineering or equivalent. Should have been qualified in GATE exam any-time.

3	Mechanical Engineering	Master's degree in Mechanical Engineering, Aerospace Engineering, Automobile Engineering, Energy Engineering, Industrial Engineering, Instrumentation, Metallurgical Engineering, Production/Manufacturing Engineering, Mechatronics, CAD/CAM/CIM and other allied areas. Should have been qualified in GATE exam any-time.
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(b) Applicants holding Bachelor's degree:

Candidates who have Bachelor's degree in Engineering/Technology with exceptionally good academic record will be considered for direct admission to Ph.D. Programme in the engineering departments subject to anyone of the following conditions:

- A B.Tech degree holder from IIT with a minimum CGPA of 8.0 on a 10-point scale or with a valid GATE score.
- A Bachelor's degree holder in Engineering/Technology from any other University who is among the top 10 rank holders in the University and having a valid GATE score. (Proof of Top 10 rank holder certificate should be attached).
- A Bachelor's degree holder in Engineering/Technology from a reputed R&D organization with minimum 60% aggregate marks or CGPA ≥ 6.5 (out of 10) and having a proven research record.

3.1.2 Ph.D in Sciences:

SI. No.	Department	Eligibility
1	Mathematics	M.Sc. in Mathematics/Applied Mathematics or equivalent with GATE/CSIR-NET/NBHM/Inspire Fellowship and first class with a minimum of 60% aggregate marks or CGPA ≥ 6.5 (out of 10) in UG and PG.
2	English	MA in English (TESOL/TESL/ELT) (or) MA in English Literature or allied subjects with NET/GATE in English or allied subjects and first class with a minimum of 60% aggregate marks or CGPA ≥ 6.5 (out of 10) in UG and PG.

Additional criteria other than the minimum educational qualifications given in section 3.1 may be set by the Selection Committee from time to time for short listing candidates to be called for test and/or interview.

3.2 Part-time Ph.D. admission:

Applicant Eligibility criteria:

An applicant must satisfy the minimum eligibility criteria, mentioned under (a), (b) and (c) of this section, to consider his/her application for Part-time Ph.D. programme of the institute and any

additional requirements specific to the departments will be published in website along with advertisement from time to time with the approval from the competent authority.

(a) Educational Qualifications

Master's/M.S. (by Research) degree in the appropriate branch of study with first class and a minimum 60% aggregate marks or CGPA \geq 6.5 (out of 10) in UG and PG.

S.No.	Department	Eligibility
1	Computer Science and Engineering	M.Tech. /M.E. /M.S. degree in Computer Science and Engineering or equivalent.
2	Electronics and Communication Engineering	M.Tech. /M.E. /M.S. degree in Electronics and Communication Engineering or equivalent.
3	Mechanical Engineering	M.Tech. /M.E. /M.S. degree in Mechanical Engineering, Aerospace Engineering, Automobile Engineering, Energy Engineering, Industrial Engineering, Instrumentation, Metallurgical Engineering, Production, Manufacturing Engineering, Smart Manufacturing, Mechatronics, CAD/CAM/CIM and other allied areas.
4	Sciences	a.) Mathematics M.Sc./M.A. in Mathematics/Applied Mathematics or equivalent b) English MA in English (TESOL/TESL/ELT) (or) MA in English Literature or allied subjects

Note: For engineering departments, candidates with B.Tech. /B.E. degree, may also be considered if the candidates have at least 6 years of experience with proven track record of research experience.

(b) Relevant Experience

Permanent employees who can submit No Objection Certificate from their employer and are working in the cadre equivalent to Scientist-C/Assistant Professor/Lecturer in Government R&D laboratories/Government organizations/Government industry/ PSUs/State Undertakings having at least three years of experience are eligible.

OR

Permanent/Regular Employees from Private Industries/Education Institutions with R & D facilities having at least three years of experience are eligible.

(c) Organization Qualifications

(i) Government R&D laboratories/Government Educational Institutions/ Government organizations/Government industry/PSUs/State Undertakings;

(ii) Private Organization/Industry/Educational Institutions, to which the applicant belongs to, must be of at least 3 years standing (i.e., established at least five years before the last date of applying for Ph.D. (Part-time) admission as per the advertisement) with membership in CII/ASSOCHEM or any other equivalent membership.

4. PhD Admission

4.1 Admission with Financial Assistance (HTRA):

The scholars admitted to the Ph.D. programmes under Full-time are eligible for the Half-time Teaching/Research Assistantship (HTRA) under the following regulations:

- The scholars should work for at least 8 hours per week to earn this assistantship.
- Renewal of assistantship every semester will be contingent on enrolment, satisfactory progress in research work and good performance during the preceding semester in the discharge of responsibility as teaching / research assistant.
- Financial assistance is provided to selected scholars based on the prescribed rules of MoE.
 - a) 1st and 2nd Year: Rs. 31,000/-
 - b) 3rd to 5th year: Rs. 35,000*/-

(*The fellowship is awarded based on external assessment after completion of two years).

4.2 Selection Procedure:

- Eligible candidates possessing the minimum educational qualifications and satisfying additional criteria set by the institute from time to time only will be called for a written test and/or interview.
- Based on the academic record and the performance of the candidates in the test based on GATE 2022 syllabus and/or interview, the selection committee will finalize the names of candidates for admission to the Ph.D. programme.

4.3 Fee Structure:

The Fee structure for the Ph. D. programme is given in **Annexure ‘B’**.

4.4 No TA/DA will be paid for attending Exam and/or Interview for Ph.D. programme.

4.5 Completing the Qualifying Degree and production of Provisional Certificate:

Candidates joining Ph.D. programme in July 2022 semester have to submit their original mark/grade sheets along with provisional certificates at the time of admission.

4.6 Application Procedure:

- Interested and eligible candidates shall download the application form available on the Institute website (www.iiitk.ac.in) and submit the hard copy of the duly filled application form along with relevant enclosures in an envelope super-scribing of “Application for Ph.D Admission (Full/Part Time) in the Department of _____” to the following address.

To,

PhD Admissions,

Academic Section,

Indian Institute of Information Technology, Design and Manufacturing, Kurnool

Jagannathagattu Hill, Kurnool,

Andhra Pradesh 518007.

- In case, NOC is not enclosed at the time of submission, a self-declaration form should be attached by the candidate stating that NOC will be submitted at the time of written test and/or interview.
- Application Fee:
 - a) Gen/OBC candidates: Rs.500/-
 - b) SC/ST/PwD candidates: Rs.250/-

Candidates need to pay application fee only through online mode and procedure is given in **Annexure ‘C’**. Application fee once paid is non-refundable.

- Shortlisted candidates qualified for the Written test/Interview need to submit the following applicable self-attested documents and original certificates are to be produced for verification on the day of Written test/Interview:
 - a) Copies of all Mark sheets/grade cards, degree certificates beginning from SSLC towards proof of qualification with Original certificates.
 - b) Copy of Community Certificate in the case of SC/ST/OBC/Economically Weaker Section (EWS) candidates issued by the competent authority of respective State Government.
 - c) Authorized Doctor’s Certificate with disability descriptions in the case of Person with Disabled (PwD) candidates.
 - d) Copy of GATE score or UGC - JRF/NET/CSIR/ DAE-JEST/Inspire fellowship or other fellowship award.

e) Copy of proof of Experience certificate, if any.

f) Copy of No Objection and Sponsorship certificate

4.7 Reservation of seats:

Reservations are applicable as per the rules and regulation of the Govt. of India.

5. Rules and Regulations for the PhD programs (Full-Time/Part-Time) are available in the below link: <https://iiitk.ac.in/Ph.D.-Admission/page>

IMPORTANT DATES

Web notification of the PhD Advertisement and the Application Registration process starts on	20-April-2022
Last date for receiving the Application forms	20-May-2022
Web notification of the short-listed candidates for written test and/or Interview	27-May-2022
Tentative dates of written test and/or interview (for short listed candidates)	6 th to 10 th June 2022
Announcement of Results	20 th June 2022
Last date for the seat confirmation, fees payment for the first semester (selected candidates only) and reporting to the institute.	1 st July 2022

For Any queries, the applicants can drop a mail to: phdadmissions@iiitk.ac.in

Tentative Broad Research Areas

Department	Full Time/Part Time
Computer Science and Engineering	Graph Theory and Graph Algorithms, Data Mining, Machine Learning, Data analytics, Data Science, Natural Language Processing(NLP), Databases, Deep Learning, Artificial neural networks, Social Computing, Recommender Systems, Remote sensing, Pattern recognition, Computer vision, Privacy Preserving Cryptography, Post Quantum Cryptography, Theory of Computer Science, Automata Theory, “4G, 5G, High Efficiency Wi-Fi networks, IoT and Edge computing”, SDN and NFV.
Electronics and Communication Engineering	VLSI, Signal Processing, Information Security, Wireless and Mobile Communications and Adhoc Networks, Software Defined Radio/Cognitive Radio, Global Navigation Satellite Systems, Underwater Communication, Inverse Problems in Electromagnetics, Computational Electromagnetics, Non-destructive Evaluation, RFIC/MMIC Design, Antenna Design.
Mechanical Engineering	Smart Materials, Data driven Modelling, Machine Learning, Deep Learning, Computational Mechanics, Fatigue Analysis, Fluid Mechanics Analysis, Constitutive Modelling & Continuum Mechanics, Dynamics and Vibrations, MEMS, Scanning Probe Microscopy and Non-linear Dynamics, Cyber Physical Systems, Cyber Physical manufacturing Systems, Digital Twin, IIoT, Robotics and Automation, Machine Vision, Autonomous System, Soft Robotics, Control Theory.
Mathematics	Parameter uniform numerical methods for singularly perturbed problems, Numerical solution of partial differential equation, Differential equation, Mathematical Control Theory, Inverse Problems.
English	Curriculum, Syllabus Designing and Materials Production, English as a Second Language (ESL), English for Specific Purposes (ESP), Second language Acquisition, Medium of Instruction and Language Policy,.

Annexure-B

FEES PARTICULARS

Description	Ph.D.
I. Institute Fees	
A. One-time Fees:	
Admission Fee	500
Certificate/Thesis Fee	1500
Student welfare fee	1000
Infrastructure Development Fee	1000
Alumni Life Membership Fee	500
Publication Fee / Library Fee	1500
Cultural Fee	-
Total (A)	6000
B. Semester Fees:	
Tuition Fee	24000
Examination Fee	500
Registration Fee	500
Sports Fee	1000
Medical Fee	1000
Student Amenities Fee	3000
Internet Fee	500
Total (B)	30500
C. Medical Insurance Premium	1000
Grand Total [A+B+C]	37500
II. Hostel Fees & Mess Charges per semester	
Hostel Admission fee	700
Hostel Seat Rent	3500
Hostel Maintenance Charges	9000
Dining charges – Advance	23500
Establishment Charges	1000
Development Fee	1000
Total	38700
Hostellers (I & II)	76200

Note: The SC/ST students shall get complete Tuition fees waiver

Annexure-C

PROCEDURE FOR ONLINE PAYMENT OF APPLICATION FEES

- GO TO: <https://www.onlinesbi.com>
 - Select “**SB Collect**”
 - Accept Terms & Conditions
 - Proceed
 - Select State – Andhra Pradesh
 - Select type of institute - Educational Institutions
 - Go
 - Drop down - PICK UP “**IIT Design and Manufacturing**”
 - Submit
 - Select Payment category
 - **Ph.D APPLICATION FEE 2022**
 - Fill the details
 - Select Payment Category
- (Rs. 500/- for GEN/OBC and Rs. 250/- for SC/ST/PwD Candidates)**
- Proceed

- The copy of online fees payment receipt (pdf) must be attached with the application form

Annexure-D

NO OBJECTION CERTIFICATE FROM THE EMPLOYER

The application from Mr./Ms working as
..... in since
....., is herewith recommended and forwarded to pursue Ph.D
programme under Part-time registration scheme in July 2022 at Indian Institute of Information
Technology, Design and Manufacturing Kurnool in the Department of
.....

Date:

Signature of the Officer with
name and address of the Organization

Office Seal

Annexure-E

Sponsorship Certificate

(To be submitted in the Official Letter Head by the Ph.D. Part time Registration Candidates)

The application from Mr./Ms..... working as..... insince is herewith recommended and forwarded for admission under part time Ph.D. Program in the Department of, Indian Institute of Information Technology, Design and Manufacturing Kurnool

Certified that:

1. Our organization has adequate facilities for carrying out the research as indicated by the applicant and if he/she is selected, these will be made available to him/her till the completion of the programme.
2. The applicant will be deputed/given leave for duration of his/her residence period at IIITDM, Kurnool. (The details of residential requirements are available under RP 3.4 of Part-time Ph.D. - Regulations document on the institute website: <https://iiitk.ac.in/Ph.D.-Admission/page>)
3. Facilities will be made available to the Supervisor (External Research Supervisor) to supervise the work of the applicant and to attend the DC meetings at IIITDM, Kurnool, when necessary.
4. Till the completion of his/her research programme, the applicant will not ordinarily be transferred to another unit or place which may impede his/her work under the scheme. If such a transfer is necessary, IIITDM, Kurnool will be informed atleast before one month of such transfer order.
5. No part of the work carried out in fulfilment of the Research programme will be utilized commercially or for applying for a Patent without the approval of Indian Institute of Information Technology, Design and Manufacturing Kurnool.

Date:

Signature of the Sponsoring Authority

Name and Designation

Seal of the organization/ Institution