



**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY,  
DESIGN AND MANUFACTURING, KURNOOL**  
(An Institute of National Importance funded by MHRD, Govt. of India)  
Jagannathagattu, Dinnevarapadu, Kurnool-518007, Andhra Pradesh  
Ph: 08518-289-128/114 Fax: 08518-289-127

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### **Admission to PhD Programme (Full-time) commencing in December 2019 Semester**

#### **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 3 B. Tech. programmes in Computer Science and Engineering, Electronics and Communication Engineering, and Mechanical Engineering and 5 Ph. D. programmes.

#### **2. ABOUT RESEARCH PROGRAMMES**

The Institute offers full-time Ph.D. programmes in the Departments of Computer Science and Engineering, Electronics and Communication Engineering, Mechanical Engineering, Mathematics and Physics. Details of Research Areas for admission are provided at Annexure 'A'.

#### **3. EDUCATIONAL QUALIFICATIONS & ELIGIBILITY**

##### **a). Applicants holding Master's degree**

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

<b>Sl.No.</b>	<b>Department</b>	<b>Eligibility</b>
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 Engineering (Electronics and Communication Engineering), Electrical Engineering, Electrical and Electronics Engineering, Electronics and Instrumentation 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.
4	Mathematics	M. Sc. Mathematics / Applied Mathematics or equivalent with GATE / UGC / CSIR / NBHM / Inspire Fellowship.
5	Physics	Master's degree in Physics / Applied physics / Material Science with GATE / CSIR-NET / Inspire Fellowship.

**b). Applicants holding Bachelor’s degree:**

Candidates who have Bachelor’s degree in Engineering / Technology with exceptionally good academic record will be considered for admission to Ph. D. Programme subject to 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.
- Bachelor’s degree holder in Engineering / Technology from any other University with a valid GATE score and at least CGPA of 8.0 (out of 10) or 75% of marks under OC / OBC category and at least CGPA of 7.5 (out of 10) or 70% for candidates under SC / ST / PWD category.
- A Bachelor’s degree holder in Engineering / Technology from a reputed R and D organization with excellent research record.

**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.
- Quantum of financial assistance is as under:

<p>Post Graduate Degree in Basic Science or Graduate / Post Graduate Degree in Professional Course selected through a process described through any one of the following:</p> <ul style="list-style-type: none"><li>▪ Scholars who are selected through National Eligibility Tests – UGC NET including lectureship (Assistance Professorship) and GATE.</li><li>▪ The selection process through National Level Examinations conducted by MHRD and its Agencies and Institutions such as UGC/IIT/IISc./IISER/IIIT etc.</li></ul>	<p>1st and 2nd Year: Rs. 31,000/-</p> <p>3rd to 5th year: Rs. 35000*/- (*The fellowship is awarded based on external assessment after completion of two years).</p>
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*Note: The age limit for the financial assistance is as per the rules and regulations of the Govt. of India.*

**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 test and/or interview.

- Based on the academic record and the performance of the candidates in the test and/or interview, the selection committee will finalize the names of candidates for admission to the Ph. D. programme.
- The syllabus for the test is same as that of the GATE-2020 syllabus.

#### **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 Interview for Ph. D. programme.

#### **4.5 Completing the Qualifying Degree and production of Provisional Certificate:**

Candidates joining Ph. D. programme in December 2019 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 forward their application in the prescribed format along with self-attested copies of their GATE score card, Educational and Experience certificates, online Fees payment receipt in an envelope super-scribing of “**Application for Ph. D. Admission in the Department of \_\_\_\_\_**” to the following address.

***Postal address:***

*The Faculty In-Charge, Academic Affairs*

*Indian Institute of Information Technology, Design and Manufacturing, Kurnool*

*Jagannathagattu, Dinnedavarapadu, Kurnool-518007, Andhra Pradesh.*

- Application Fee:
  - a) Gen / OBC candidates: Rs. 250/-
  - b) SC / ST / PwD candidates: Rs. 125/-

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 Interview need to submit the following applicable self-attested documents and original certificates are to be produced for verification on the day of 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 or other fellowship award.
  - e) Copy of proof of Experience certificate, if any.

#### 4.7 Reservation of seats:

Reservations are applicable to SC / ST / OBC / Economically Weaker Section (EWC) Candidate with Physical Disability (PwD) as per the rules and regulation of the Govt. of India.

#### **IMPORTANT DATES**

Registration of Application forms will be opened on	26-Sep-2019
Last date for Registration of application <b>by speed post only</b>	04-Nov-2019
Web notification of the short-listed candidates for test and/or Interview	11-Nov-2019
Tentative dates of test and/or interview (for short listed candidates)	25 <sup>th</sup> to 29 <sup>th</sup> Nov 2019
Announcement of Results	First week of Dec 2019
Selected candidates need to submit / send their acceptance together with the fees for the first semester <b>on or before 11-Dec-2019</b> . Academic session for December-2019 semester will starts on 16-Dec-2019.	

For Any queries, the applicants can drop a mail to: [phdadmissions@iiitk.ac.in](mailto:phdadmissions@iiitk.ac.in)

Tentative Research Areas

<b>Department</b>	<b>Broad Research Areas</b>
<b>Computer Science and Engineering</b>	Cloud Computing, Recommender Systems, Vehicular Clouds, Graph Theory, Graph Algorithms, Big Data Analytics, Data Science, Computer Networks, Information Security, Internet of Things, Artificial Intelligence, Machine Learning, Social Media, Wireless Sensor Networks, Computer Vision, Image Processing
<b>Electronics and Communication Engineering</b>	VLSI for Signal Processing, VLSI for Information Security, Sensor development, Biomedical Instrumentation, Power Electronics Converters for Renewable Energy, Industrial Automation, Game Theory, Peer-to-Peer networks, Social Networks, Block Chain, Antennas, Metasurfaces and Energy Harvesting
<b>Mechanical Engineering</b>	Sustainable Machining, 3D Simulation of Machining Operation, Hybrid Optimization Techniques, Tool Coating, Advanced Manufacturing Processes
<b>Mathematics</b>	Mathematical Control Theory and its Applications, Ill-posed Operator Equations, Inverse Problems
<b>Physics</b>	Theoretical Physics: Computational Condensed Matter, First Principles Electronics structure, Ab-initio Molecular Dynamics, and Monte Carlo Simulations

## Annexure-B

### FEES PARTICULARS

Description	Ph.D.
<b>I. Institute Fees</b>	
<b>A. One-time Fees:</b>	
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	-
<b>Total (A)</b>	<b>6000</b>
<b>B. Semester Fees:</b>	
Tuition Fee	24000
Examination Fee	500
Registration Fee	500
Sports Fee	1000
Medical Fee	1000
Student Amenities Fee	3000
Internet Fee	500
<b>Total (B)</b>	<b>30500</b>
<b>C. Medical Insurance Premium</b>	500
<b>Grand Total [A+B+C]</b>	<b>37000</b>
<b>II. Hostel Fees &amp; Mess Charges per semester</b>	
Hostel Admission fee	700
Hostel Seat Rent	3500
Hostel Maintenance Charges	9000
Dining charges – Advance	14000
Establishment Charges	1000
Development Fee	1000
<b>Total</b>	<b>29200</b>
<b>Hostellers (I &amp; II)</b>	<b>66200</b>

**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 “**IIIT Design and Manufacturing**”
  - Submit
  - Select Payment category
  - Ph.D. APPLICATION FEE
  - Fill the details
  - Select Payment Category
- (Rs. 250 for GEN/OBC and Rs.125 for SC/ST/PwD Candidates)**
- Proceed

***- Take print of online receipt and enclose it along with filled application***