



INDIAN INSTITUTE OF INFORMATION TECHNOLOGY,
DESIGN AND MANUFACTURING (IIITDM) KANCHEEPURAM
Off Vandalur-Kelambakkam Road, Chennai - 600 127
(An Institute of National importance under MHRD, Govt. of India)

TEL: 91-44-2747 6300

FAX: 91-44-2747 6301

Ph.D ADMISSION BROCHURE

1. THE INSTITUTE

Indian Institute of Information Technology Design and Manufacturing, Kancheepuram is an Institution of National Importance established in 2007 by the Ministry of Human Resource Development, Government of India and is located at outskirts of Chennai. It is a Centre of Excellence for pursuing Design and Manufacturing oriented Engineering Education and Research and for promoting competitive advantage of Indian products in global markets.

IIITDM Kancheepuram offers undergraduate, postgraduate, dual-degree programmes in the areas of Computer, Electronics and Communication, Mechanical Engineering and inter-disciplinary Ph.D programmes in core and applied areas of science and engineering. It functions with the vision to groom engineers with design and manufacturing skills. The institute gives significant amount of emphasis for practice courses and theory concepts are also explored along with the relevant laboratory course. In concise, the motto of the institute is **“Learning by Doing**.

2. ABOUT RESEARCH PROGRAMMES

The Institute offers Ph.D. programmes in the disciplines of Computer Science and Engineering, Electrical, Electronics and Communication Engineering, Mechanical Engineering, Mathematics and Physics. Details of Research Areas for admission during Jul 2018 under Institute fellowship are provided at **Annexure ‘A’**.

3. INFRASTRUCTURE AND OTHER FACILITIES:

IIITDM Kancheepuram functions in its permanent campus located at outskirts of Chennai. This modern campus with digital classrooms and well equipped laboratories caters the needs of about 1000 students currently. The institute is also well equipped with experimental and computational facilities. The Library has good collection of books, printed journals, magazines, leading newspapers, e-Journals, softcopy of NPTEL course materials and video contents. The Library maintains a separate collection of reference books. The institute also subscribes nearly 1100 e-journals viz IEL (IEEE & IEE) and Elsevier Science.

The institute has separate fully furnished hostels for both boys/girls in the campus. Students residing in the hostels are provided with exclusive dining facility. Entire campus is wifi enabled.

4. EDUCATIONAL QUALIFICATION

4.1 Direct PhD (for applicants having UG degree) :

Candidates who have qualified for the award of Bachelor’s degree in Engineering/Technology with exceptionally good academic record in an eligible discipline will be considered for **direct admission to Ph.D. Programme** as a regular full time scholar 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.
- A Bachelor’s degree holder in Engineering/Technology from any other University should be among the top 10 rank holders in the University and having a valid GATE score.

- A Bachelor's degree holder in Engineering/Technology from a reputed R & D organization with excellent research record.

4.2 For applicants holding PG degree :

- Candidates with a Master's degree in Engineering/Technology (ME/MTech/M Des) or a Master of Science (MS) degree by Research in Engineering/Technology with a good academic record. (Also refer to sec 5.1)
- Candidates with Master's degree in Sciences with a good academic record and of exceptional merit where eligible, for the relevant Engineering discipline and with a valid GATE score or UGC/CSIR NET/NBHM or equivalent qualification in the relevant area tenable for the year of registration.

4.3 For candidates under NHTRA category (without stipend)

The minimum educational qualifications are the same as prescribed for Regular (full time) category in 4.1 & 4.2 for admission to the Ph.D. Programme in the respective categories.

5. ELIGIBLE DEGREES FOR ADMISSION TO Ph.D. PROGRAMME (For applicants holding PG degree):

Sl. No.	Discipline	Eligibility
1	Mathematics	Master's Degree in Mathematics/ Statistics/ Physics/ Computer Science with GATE/UGC/CSIR/NBHM or M.Tech (Industrial Mathematics & Scientific Computing) or any M.Tech degree with Master's degree in Mathematics/Physics/Statistics/ Computer Science
2	Physics	M. Sc in Physics/Applied Physics/Mathematics/Material Science/Applied Optics/Optoelectronics with GATE/UGC/CSIR/NBHM or M. Tech in Solid State Technology / Materials Science / Mechanical Engineering or equivalent.

6. Ph.D ADMISSION

6.1 Admission with Financial Assistance (HTRA):

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

- (a) The scholars should work for at least 8 hours per week to earn this assistantship.
- (b) 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.
- (c) Quantum of financial assistance is as under:

Post Graduate Degree in Basic Science with NET/GATE Qualification or Graduate Degree in Professional Course with NET/GATE Qualification or Post Graduate Degree in Professional Courses	1 st & 2 nd Year: Rs.25,000/- 3 rd to 5 th year: Rs.28000*/- (*Upon successful assessment by the review committee after period of two years).
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6.2 Admission without Assistantship (NHTRA):

The candidates may also be considered for admission to the Ph.D programme without assistantship (NHTRA) under **Regular** (Full time) / **External** / **Internal** (*Project / Staff*) categories.

Candidates applying for Regular (Full time) Ph.D programme have to enclose a letter along with the Application Form stating that they may be considered for admission even without assistantship (NHTRA).

The eligible qualifications for NHTRA –**External** candidates are:

Must belong to any one of the following category

- (i) Industry/Organization having R&D facilities and recognized by DST, GOI or IITs
- (ii) National Research Laboratories
- (iii) Reputed Universities / Colleges
- (iv) Public / Private sector

For candidates under **External** category:

- (i) Minimum residential period is **one semester**
- (ii) The parent institute must have sufficient research facilities to carryout research work in the area of research the candidate has registered

6.3 Selection Procedure:

Eligible candidates possessing the minimum educational qualifications (as given in Section 4) and satisfying additional and stiffer criteria set by the institute from time to time will be called for test/ interview.

Based on the academic record and the performance of the candidates in the test and interview, the Selection Committee will recommend to the Chairman of the Senate the names of candidates found suitable for admission to the Ph.D. programme.

6.4 Reservation of Seats

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

6.5 Fee Structure

The Fee structure for the Ph. D Programme is given in **Annexure 'B'**.

6.6 No TA/DA will be paid for attending Interview for Ph.D programme.

6.7 Completing the Qualifying Degree and production of Provisional Certificate:

Candidates joining Ph.D programme in July-December/January-June session have to submit their original mark/grade sheets along with provisional certificates at the time of admission. They should also produce their required degree certificate for having passed the qualifying examination within three months from the date of registration i.e. on or before 30th September for July admission / 31st March for January admission.

6.8 Application Procedure:

- a) Interested candidates are to apply online in the link provided in the institute website. Only online application is accepted and the candidates are advised to take a print of your application and keep the same for the record.
- b) Application fee:
 - GN/OBC-NC Male candidates: Rs.250/-
 - GN/OBC-NC Female candidates/SC/ST and PwD candidates : Rs.125/-

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

- c) Shortlisted candidates qualified for the Interview need to submit the following applicable self attested documents and original need to be produced for verification and return:
 - 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 candidates issued by the competent authority of respective State Government.
 - c) Authorised Doctor's Certificate with disability descriptions in the case of Person with Disabled (PD) 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.

Important Dates

➤ On line Registration of Application forms will be open on	...	08.06.2018
➤ Last date for Registration of application through on-line	...	20.06.2018
• Tentative dates of test/interview (for short listed candidates)		
➤ Mathematics	...	10.07.2018
➤ Physics	...	
Selected candidates need to submit / send their acceptance together with the fees for the first semester on or before 20 July 2018 . Academic session for Jul-Nov 2018 will starts on 23 rd July 2018.		

ON GOING RESEARCH AREAS (but not limited to)

Physics	Raman spectroscopy of silicon nano materials Nanowires based solar cells
	PHOTONICS: Phase structured light beams for sensor applications* LASER APPLICATIONS: Laser based supercavitation * BIO-INSPIRED DESIGN: Bio-inspired photonic gas sensor
	*Nonlinear Dynamics *Nuclear physics *Quantum Mechanics
	Novel Electrode Materials for Fuel Cell / Electrolysis Cell Applications
Mathematics	Graph Theory and Algorithms
	Graph Theory, Combinatorics, Algorithms
	Differential Equations, Linear Algebra, Numerical Analysis, Applied Functional Analysis
	Applied Probability, Operation Research, Stochastic Process, Mathematical Statistics, Optimization

FEE STRUCTURE FOR THE NEW ADMISSIONS - 2018-19 BATCH ONLY

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
Total (A)	6000
B. Semester Fees:	
Tuition fee (+)	21000
Examination fee	500
Registration	500
Sports Fee	1000
Medical Fee	1000
Student Amenities	3000
Total (B)	27000
C. Medical Insurance Premium (per annum)	
Medical Insurance premium p.a.	575
Total (C)	575
Grand Total [A+B+C]	33575
II. Hostel Fees	
A. Hostel Fees & Mess Charges per semester	
Hostel Admission fee	700
Hostel Seat Rent	2000
Hostel Maintenance Charges	7500
Advance dining charges	14000
Establishment B Charges	500
Total (A)	24700
Hostellers	58275

Note:

- +SC/ST students are exempted from payment of tuition fee irrespective of their parental income.
- Hostel is compulsory for all B Tech/DD students. If exemption is granted by the Institute, then day scholars will have to pay the above mentioned Institute fees (Except Hostel Fees).

THE PROCEDURE FOR ONLINE PAYMENT OF FEES AS FOLLOWS:

GO TO:

<https://www.onlinesbi.com>

- select STATE BANK COLLECT
- ACCEPT TERMS & CONDITIONS
- PROCEED
- SELECT STATE – TAMIL NADU
- SELECT TYPE OF INSTITUTE - EDUCATIONAL INSTITUTE
- GO
- DROP DOWN - PICK UP IIITD&M KANCHEEPURAM AC
- SUBMIT
- SELECT CATEGORY
- MISCELLANEOUS PAYMENTS
- SELECT NATURE OF PAYMENT
- MISC FEES
(Rs. 250 for GN/OBC and Rs.125 for SC/ST/PD/Female Candidates)
- SELECT PAYMENT CATEGORY
- PROCEED
- ***Take print of online receipt and enclose it along with filled application***