INFORMATION BROCHURE

(Advt.No.: IIITDM/PhD/Admission/03/01/July-2025 dated 20/03/2025)

Ph.D. Programme



Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram, Chennai - 600127.

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01) INTRODUCTION

Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram (IIITDM) is an Institute of National Importance under the Ministry of Education, Govt. of India and established in the year 2007 with a vision to promote creative and knowledge-intensive products and processes in the manufacturing sector.

It is strategically located in close proximity to the IT and industrial clusters in Chennai and is away from Chennai Airport by 25 KMs.

IIITDM Kancheepuram offers Undergraduate, Postgraduate and PhD programme in the areas of Computer Science and Engineering, Electronics and Communication Engineering, Mechanical Engineering, Smart Manufacturing and Interdisciplinary Design and Innovation. It functions with the vision to groom engineers with design and manufacturing skills. The institute gives a significant amount of emphasis to 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".

02) ABOUT RESEARCH PROGRAMMES

The Institute offers research program in the disciplines of Computer Science and Engineering, Electrical, Electronics and Communication Engineering, Mechanical Engineering, Mathematics, Physics, and Interdisciplinary Product Design.

Details of Research Areas for admission are provided in **Annexure 'A'**.

03) INFRASTRUCTURE AND OTHER FACILITIES

It is a green campus having digital classrooms and well-equipped laboratories catering to UG/PG/PhD students. The institute is also well-equipped with experimental and computational facilities.

The Library has a good collection of books, printed journals, magazines, leading newspapers, e-Journals, NPTEL course materials and video content. The Library maintains a separate collection of reference books. The institute also subscribes to leading e-journals viz IEL (IEEE & IEE) and Elsevier Science.

The institute has separate hostels for both boys/girls on campus. Students residing in the hostels are provided with an exclusive dining facility. The entire campus is Wi-Fi enabled.

The Institute is also having academic – research collaborations with reputed Indian and foreign Universities.

04) CATEGORY OF PH.D. ADMISSION (HTRA, NHTRA, Project, External, PEE, Fellowship)

I. HTRA (Regular Full-Time Program with Institute Scholarship):

Scholars under the **HTRA** category are eligible for Half-time Research Assistantship (HTRA) provided by the Institute under the following regulations:

a) The scholars need to carry out Teaching Assistantship (TA ship) for at least 8 hours per week.

- b) Renewal of assistantship for every subsequent semester will be contingent on enrolment, satisfactory progress in research work, and good performance during the preceding semester.
- c) The assistantship under HTRA is Rs. 37,000 per month during the first and second year and Rs. 42,000 per month during 3rd 5th year period subject to fulfillment of external assessment at the end of second year, and having a satisfactory performance. Enhancement of assistantship, if any, will be in line with the norms of Ministry of Education.

II. NHTRA (Regular Full-Time Program without Institute Scholarship):

a) Scholars under the **NHTRA** category are not eligible for any Half Time Teaching assistantship at the Institute.

III. Project (Regular Full-Time Program with Financial Support from Sponsored Project):

- a) Scholars under the **Project** category are eligible for an assistantship from Sponsored Research project under the regulations of the Sponsored Research Office of IIITDM Kancheepuram. The admission to this category is contingent upon the successful selection of the candidate as JRF by the Sponsored Research Office of IIITDM Kancheepuram. On completion of project funding, institute assistantship may be considered subject to conditions stipulated by the Senate.
- b) The candidates are required to upload a NOC from PI/Dean at the time of applying.

IV. EXTERNAL (Part-Time Program without Institute Scholarship):

- a) The candidates employed and sponsored by the national laboratories, public sector companies or private industry/organization having R&D facilities and recognized by Govt. of India are eligible to apply under this category. Such organizations must be listed in the R&D Brochure of Department of Science and Technology (Refer to DST-R&D Brochure)
- b) Research scholars under this category will normally carry out part or all of his / her research work in his/her own organization under the supervision of a co-guide (must be a doctorate) employed in the same organization and a Guide from IIITDM Kancheepuram. The candidate must have at least two years of regular service in the respective organization.
- c) The candidates are required to submit a Relief certificate, NOC & Sponsorship certificate at the time of admission.
- d) These candidates are to complete the courses as advised by the DC during the first year of their program. Accordingly, the residence period may be either one or two semesters.

V. Professional with Extensive Experience (PEE):

- a) Candidates working as scientist in DRDO, ISRO and PSUs, and other R&D Organizations recognized by Govt. of India (DST) are eligible to apply under this category. (Refer to DST-R&D Brochure)
- b) Candidate shall have M.Tech. / MS (Research) / Equivalent degree with at least 10 years of professional experience.
- c) Candidate having B.Tech. / Equivalent degrees are required to have at least 12 years of professional experience.
- d) Candidates should have demonstrated research potential through research papers in reputed journals / patents / technology transfer.

- e) These candidates are expected to discuss with prospective research supervisors at the institute before submitting their application. These candidates are to attend courses (In-house courses, Self-study courses, NPTEL) as advised by the DC during the first year of their program.
- f) No residency requirement for such candidates.
- g) Research scholars under this category will normally carry out part or all of his / her research work in his/her own organization under the supervision of a Guide from IIITDM Kancheepuram and such scholars need not have a co-guide in their organization.

VI. Fellowship (Regular Full-Time Scholars with Govt./Semi-Govt. Fellowship Award):

a) Candidates who have qualified for JRF from various funding agencies such as UGC/CSIR/INSPIRE/NBHM/DBT/ICMR/MeiTY and if it is tenable for the year of registration may also apply for Ph.D programme under the Fellowship category subject to fulfilling the eligibility criteria for admission to various departments.

05) COMMON MINIMUM ELIGIBILITY CRITERIA FOR Ph.D. ADMISSION: (HTRA/NHTRA/PROJECT/External Category/Fellowship)

I. For applicants holding a PG degree:

- a) Candidates with a Master's degree in Engineering/Technology (ME / M. Tech / M Des) or a Master of Science (MS) degree by Research in Engineering/Technology or 5-year integrated Masters with a good academic record.
- b) Candidates with a Master's degree in Sciences/Arts with a good academic record and of exceptional merit are eligible for the relevant Engineering discipline and with a valid GATE score or CSIR UGC NET/NBHM/DAE-JEST or equivalent qualification in the relevant area tenable for the year of registration.

II. Direct Ph.D. (for applicants having a UG degree and no PG degree):

Candidates who have qualified for the award of a Bachelor's degree in Engineering/Technology with an 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) Bachelor's degree holder in Engineering/Technology from Centrally Funded Technical Institutes (CFTIs) with a minimum CGPA of 8.0 on a 10.0-point scale (or equivalent).
- b) Bachelor's degree in Engineering/Technology from Non CFTIs with a valid GATE score or other equivalent national exam qualification (Validity required at the time of joining) and CGPA of at least 8.0 out of 10.0 (or equivalent)
- c) A Bachelor's degree holder in Engineering/Technology and employed in a reputed R&D organization for at least 2 years with an excellent research record recognized by Govt. of India. (Refer to R&D Brochure of DST)

06) MINIMUM EDUCATIONAL QUALIFICATION FOR ADMISSION TO Ph.D. PROGRAMME IN DIFFERENT DEPARTMENTS / SCHOOLS/ DISCIPLINES

An applicant should possess the following minimum qualifications in appropriate areas to be eligible to apply for admission to the Ph.D. program of the Institute.

I.Computer Science and Engineering

- (a) Master's degree in Computer Science and Engineering/Computer Engineering/Information Technology/Artificial Intelligence/Machine Learning/Data Science/Cyber Security and relevant areas.
- (b) Candidates with M.Sc degree [Mathematics, Statistics, Computer Science, Data Science, Information Technology, Software Engineering], M.Stat or relevant degrees, M.Sc Physics (Electronics Specialization), M.Sc Electronics, Integrated M.Sc degree in IT, Software Engineering and the relevant areas with CGPA of 8 and above along with a valid GATE score in CS-IT / DS-AI or cleared National level exams in Computer Science.
- (c) Candidates listed in (b) with a valid GATE score in MA/ST/PH/EC/EE/IN or cleared NBHM, CSIR-NET, or National level exams (Non-CSE) are eligible to apply. However, they have to appear for the written test conducted by the department to assess fundamentals in CSE.
- (d) Candidates with a Master's degree (M.E/M.Tech/MS) in Electronics & Communication Engineering (ECE), Smart Manufacturing, Instrumentation, Electrical Engineering and relevant areas are eligible to apply, and they have to appear for the written test conducted by the institute to assesses fundamentals in CSE. However, candidates with a valid GATE score in CS-IT/DS-AI would be eligible to apply for a PhD programme in CSE at the institute without a written test.
- (e) Candidates with B.Tech ECE / Electrical Engineering / Smart Manufacturing / relevant areas would be eligible for Direct PhD admission.

II.Electronics and Communication Engineering (Including Electrical Engineering, Biotechnology, Biomedical Engineering)

Master's degree in Electrical Engineering / Electrical and Electronics Engineering / Electronics Engineering / Electronics and Communication Engineering / Instrumentation Engineering or Master's degree in Physics followed by a Master's degree in Engineering in an area relevant to the research.

Master's in Biotechnology, Biomedical Engineering

III.Mechanical Engineering

Master's degree in Mechanical Engineering / Design / Thermal Engineering / Production / Manufacturing Engineering / Aerospace Engineering /Automobile Engineering / Energy Engineering / Industrial Engineering / Instrumentation / Maintenance / Management / Metallurgy / Biomechanical Engineering / Mechatronics/ CAD /CAM / CIM, Robotics and Automation / Nanoscience and Engineering, Nanotechnology and other related areas depending on the research topics.

IV.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 a Master's degree in Mathematics/Physics/Statistics/ Computer Science.

V.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.

VI.School of Interdisciplinary Design and Innovation

- a) Master's (ME/M.Tech./M.Des./M. Arch./MBA) or equivalent in any discipline
- b) MS / M.Sc. or equivalent in any Science discipline with GATE/UGC/CSIR/NBHM /DAE-JEST.

07) SELECTION PROCEDURE

I. Selection Procedure for HTRA/NHTRA/Project Category/ Fellowship

- a) Eligible candidates possessing the minimum educational qualifications and satisfying **additional** and stiffer criteria set by the institute from time to time will be called for a written test/interview.
- b) Selection will be purely based on the academic record and the performance of the candidates in the written test and/or interview.
- c) All rules and regulations as given in the Ph.D. Ordinance are available on the institute website and other guidelines issued by the institute/MoE from time to time are applicable to Scholars of all Categories.

II. Selection Procedure for EXTERNAL Category

- a) External candidates are required to submit a detailed research proposal along with their application indicating therein a Supervisor available for guidance in the parent Organization/Industry.
- b) The proposal should have been approved by the research Organization/Industry in which the candidate is employed.
- c) The Organization/Industry should be allowing the candidate to carry out the research where he/she is employed.
- d) The proposal will be scrutinized by the respective Dept. before shortlisting for test/ interview.
- e) Candidates are required to attend an interview conducted by the respective Department and their selection is purely based on their performance and research proposal.
- f) All rules and regulations provided in the PhD Ordinance are available on the institute website and other guidelines issued by the institute from time to time are applicable to Scholars under this Category.

III. Selection Procedure for Professional with Extensive Experience Category

- a) Professional with Extensive Experience (PEE) are required to submit a detailed research proposal along with their application.
- b) The proposal should have been approved by the research Organization/Industry in which the candidate is employed.
- c) The Organization/Industry should be allowing the candidate to carry out the research where he/she is employed.
- d) The proposal will be scrutinized by the respective Dept. before shortlisting for interview.
- e) Candidates are required to attend an interview conducted by the respective Department and their selection is purely based on their performance in the interview and research proposal.
- f) All rules and regulations provided in the Ph.D Ordinance are available on the institute website and other guidelines issued by the institute from time to time are applicable to Scholars under this Category.
- **IV.** Candidates who wish to apply for more than one department should submit a separate application and subject to fulfilling the eligibility criteria for applying to the concerned department/research programme mentioned in **Annexure A**.

08) APPLICATION FEES

No application fee is required.

09) COURSE FEE STRUCTURE for PhD (per semester)

Description	Amount (in Rs.)
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 (*)	41000 (*)
Examination fee	500
Registration	500
Sports Fee	1000
Medical Fee	1000
Student Amenities	3000
Total (B)	47000
C. Medical Insurance Premium (per annum)	
Medical Insurance premium p.a.	600
Total (C)	600
Grand Total [A+B+C]	53600
II. Hostel Fees (+)	
A. Hostel Fees & Mess Charges per semester	
Hostel Admission fee	700
Hostel Seat Rent	3500
Hostel Maintenance Charges	16200
Dining charges - Advance	25050 (**)
Establishment B Charges	1000
Development Fee	1000
Total (A)	47450
TOTAL (I + II)	101050

^{1. (*)} SC/ST students are exempted from payment of tuition fee irrespective of their parental income.

Revised fee structure if any, shall be uploaded accordingly. The fee will be charged each semester as per Institute rules/ norms applicable from time to time.

^{2.} Hostel is compulsory for all scholars. If exemption is granted by the Institute, then day scholars will have to pay the above mentioned Institute fees (Except Hostel Fees).

^{3. (**)} There may be variation in the dining charges based on tendering value.

10) INSTRUCTION FOR FILLING ONLINE APPLICATION

The candidates are required to register and submit an ONLINE application by accessing the website www.iiitdm.ac.in. No Hardcopy of the application will be entertained. The candidates are also required to upload the scanned copy of the following self-attested documents:

1	File containing your recent color photograph (Jpg)
2	Scanned copy of your signature (Jpg)
3	Scanned copy of your PG degree certificate and PG Marksheet(s) (pdf) if the course is completed. If you do not have the final degree certificate, please upload a copy of the final year mark sheet or the provisional certificate. If the course is not completed, a certificate from the principal of the college or the Head of the department as per Annexure B should be uploaded.
4	Scanned copy of your UG degree certificate and UG Marksheet(s) (pdf)
5	Scanned copy of your Higher Secondary Certificate (pdf).
6	Scanned copy of your SSLC/Class 10 certificate (pdf).
7	Scanned copy of your birth certificate or proof of date of birth (Birth certificate or Class 10/SSLC certificate) (pdf).
8	Scanned Experience Certificate if applicable (pdf)
9	Scanned Category Certificate for OBC-NCL/SC/ST/EWS if applicable (pdf) (Annexure C, Annexure D and Annexure E respectively)
10	Candidates who are applying in the PwD category should upload a valid medical certificate issued by the appropriate authority as per Annexure F (pdf).
11	The prescribed format for submission of the Sponsorship/Endorsement Certificate and particulars of Co-guide are provided as Annexure G and H respectively.
12	Candidates who are applying under Project category should upload a NOC in the prescribed format provided as Annexure I
13	The size of each document should not be more than 2 MB, scanned documents should be 200 dpi or above.
14	Candidates under the External category and Professional with Extensive Experience category are required to submit a detailed research proposal along with the application and a detailed resume
15	The Institute shall not be responsible for wrong entries and technical error(s) while making the online application.

It may be noted that the application received without requisite documents will be summarily rejected without any further intimation. Canvassing in any manner on the part of the candidates shall lead to his / her disqualification.

11) IMPORTANT DATES:

Dates	Events		
20th March 2025	Portal OPEN for submission of online application		
21st April 2025	LAST DATE for submission of online application		
24th April 2025	Shortlisting of Applications		
25th April 2025	Intimation to shortlisted candidates for Test / Interview on the Institute website.		
	Ates for test/interview (for shortlisted candidates) Seminar Hall, Admin Building, IIITDM Kancheepuram.		
26th May 2025	Computer Science and Engineering		
27th May 2025	Electronics and Communication Engineering		
28th May 2025	Mechanical Engineering		
29th May 2025	Interdisciplinary Product Design		
30th May 2025	Sciences and Humanities: Mathematics, Physics		
06th June 2025	Declaration of selected candidates on the website (www.iiitdm.ac.in)		
09th June 2025	Acceptance of the offer by the selected candidates.		
14th July 2025	Physical Reporting and Enrollment.		

Candidates are requested to apply online only and there is no requirement for submission of a hard copy of the application.

The candidates are advised to visit the institute website and the respective department portal for details (syllabus and/or other details) regarding written tests/other updates.

12) Other Points for Consideration:

- i. The admission of candidates is purely based on merit by conducting a due selection process.
- ii. 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.
- iii. Reservations are applicable to SC/ST/OBC/Economically Weaker Section (EWS) and admission of Persons with Disabilities (PwD) will be as per the rules and regulations of the Govt. of India.

- iv. The Institute reserves the right to restrict the number of candidates to be called for test/interview to a reasonable number, on the basis of qualifications and or experience.
- v. All the candidates are requested to bring valid Govt. ID proof along with all Educational documents at the time of selection process.
- vi. All entries should be carefully made at the time of application and IIITDM Kancheepuram shall not be responsible for any wrong entries. Candidates shall be solely responsible for the correctness and authenticity of the information/documents provided in the online application.
- vii. Candidates must fill/enter their CGPA or percentage of marks as issued by their institute/college/university. Candidate must not convert their CGPA into percentage and vice-versa.
- viii. In the case of candidates applying under the External category, the Co- guide should not himself/herself be a scholar/pursuing a similar higher degree from any university. He/She will be an invitee to the Doctoral Committee meetings at IIITDM, Kancheepuram.
 - ix. Teaching professionals working in private colleges/universities are not eligible to apply under the external/PEE category.
 - x. Online applications submitted by the candidates shall be considered final and binding. Requests for making corrections in the online application at a later stage shall not be entertained.
 - xi. The last date for submission of the online application shall not be extended under any circumstances. Therefore, candidates are advised to submit their applications well in advance without waiting until the last date.
- xii. Students admitted under the program shall be governed by Ordinances/ Rules and Regulations in vogue during the course of their program.
- xiii. Candidates are advised to fill up their correct and active e-mail addresses in the online application as all the correspondences will be made by the Institute through email/ online only. All information regarding the Test / Interview, Shortlisted candidates will be uploaded on the Institute website only. No separate communication will be made.
- xiv. The candidates should ensure that they fulfill all the eligibility conditions as specified. Their admission will be purely provisional till verification/fulfillment of prescribed eligibility conditions.
- xv. The selection is provisional at all stages of the admission process till submission/verification of all the documents/fulfillment of prescribed eligibility.
- xvi. If selected, all the original documents will be verified during physical reporting for admission. If anything is found to be not in order, the applicant's admission shall stand cancelled.
- xvii. Those who wish to avail of Hostel and mess facilities on the day of the test/Interview. may Contact: hosteloffice@iiitdm.ac.in
- xviii. For further information, please contact: phdadmission@iiitdm.ac.in

Details of Research Areas available for Ph. D admission during July 2025

Department / School	Research Areas
Computer Science and Engineering	 Signal processing, Brain-computer Interface, Machine learning, Affective Computing; Medical image processing, deep learning Computer Architecture/ Network System Design/Reconfigurable Computing/ Cyber Security; Wireless Sensor Network, Healthcare IoT, Sensor Virtualization, Software Defined Networks Information Security, Network Routing and Security, IoT/Cyber Security, Digital Twins, Intrusion Detection System, Generative AI (GAI) for Threat Simulation Digital Twins, AI for Safety Critical Systems, Fault Tolerant Safety Critical Systems; Cryptography Memory technology, Machine learning; Optimization, Reinforcement Learning, Multi Armed Bandits, Metaheuristics, Scheduling and Routing Strategies in Cyber-Physical Systems, Vehicular Adhoc Networks, Smart Grids, Digital Microfluidic Biochips Social Media Analytics, Transfer Learning, Data Analytics, Usability Engineering Graph Theory and Algorithms; Combinatorial Optimization, Reinforcement learning, Heuristics, Metaheuristics
Electronics and Communication Engineering	 Image Processing, Biomedical Image and Signal Processing, Machine Learning, Deep Learning, Control Theory, Signal Processing; Bio-circuit design Nanoelectronics, Neuromorphic computing, Machine Learning in semiconductor devices, 1-Transistor Spiking Neural Network, Memory Technology, Reliability of Devices; Medical Electronics, Optical Instrumentation, Biophotonics, Medical Optics; Optoelectronics, Quantum Devices and Computing, Memristors, 2D Semiconductors, Photonics for neuromorphic computing Fiber optic sensors and chemosensors; Instrumentation for point of care clinical Diagnosis, Medical Image Processing, Nanotechnology, Microfluidics based biosensors Photonic metasurfaces Data Science, Network Security, Wireless Networks, Social Networks; RF and Microwave Engineering, Antennas, High Power Microwave/Millimeter Wave Sources, RF System design of Gyrotrons; Wireless Communication, 5G/6G wireless technologies; Online learning, Edge resource allocation, Next gen

WiFi; Antennas, Metamaterials, Metasurfaces, Reconfigurable **Intelligent Surfaces** Smartgrids, Machine Learning models for Power and Energy system, Power Electronics; Power and Energy System, inverterbased resources, Power Electronics System & Applications; Electric Vehicle Systems Semiconductor Devices, MEMs & NEMs in Healthcare & Energy, Neuromorphic and Future Logic Device Smart Materials and structures, Advance Finite Element methods, Material Modelling, Cold Spray Coatings, Thermoelectric materials and devices, Energy harvesting; Computational Additive Manufacturing, Crystal Plasticity, Computational Homogenization, Multi-scale modelling, Process-property relationships; Aeroelasticity and nonlinear dynamics; Intelligent Design and Manufacturing with Advanced Engineering Materials, Fatigue, Fracture and Impact studies, Structural Optimization; Light-weight and Sustainable materials, Vibration isolating materials, Failure of materials; Digital twin for materials and manufacturing, Materials' performance and life prediction, Materials for harsh applications; Dynamic behavior of materials; Meshless methods; CFD, Wind Turbine; Heat and mass transfer; Microfluidics; **Mechanical Engineering** Drying Technology in Battery Production and Electrode Coating; Sustainable Manufacturing, Digital Manufacturing, Additive Manufacturing; Metal forming and joining; Microfabrication, Advanced Manufacturing, Microfluidics and Biomedical Devices; Machining (Conventional and non conventional), cutting tool dynamics and composite materials; Smart circular supply chain; Resilience and Intelligent risk management; Experimental and computational orthopeadic surgery, Experimental and computational Additive manufacturing, Haptic and Robot in Surgery, Iso-geometric analysis. AI, IoT and Robotics, Fuzzy Control, Smart Manufacturing, Smart Materials, Digital Twins, Heritage Protection; Robotics and Control, Mechanism Design and Synthesis, Mobile and **Aerial Manipulation**

School Of Interdisciplinary Design And Innovation (SIDI)	 Quantum sensors and technologies, Scaling up of Water purification Technology AI for medical applications, devices and other areas, Image and Signal Processing, Electronics and Instrumentation for medical and Industrial applications, Other socially relevant areas Design Research, Product design, Ergonomics in design, User experience, interaction design Design and optimization of thermal systems Point-of-care biosensors, Biomaterials in Healthcare and Lab-on-a-chip technology Sustainable product design, lightweight, crashworthiness, Product Service Systems, Systems Engineering, Life cycle assessment, Product Design Theory AI/IOT, ML, Auxetic stuructrues, design optimization Medical device design, medical robotics
Science	es And Humanities-Research Areas
Mathematics	 Graph Theory and algorithms; Number Theory, Combinatorics, Abstract Algebra; Dynamical Systems, Nonlinear Analysis, Stability Theory, Network systems; Numerical Linear Algebra, Numerical Analysis, Partial Differential Equations, Data Science and Machine Learning
Physics	 Optoelectronics, Defence Devices, and Gas sensors (Experimental); Nolinear systems, Dynamics of fluid, Nuclear physics (theory); Ferroelectric Polymer Composites, Multiferroics; MXene based catalysts for Hydrogen production, 2D-materials for Energy Storage, Hydrogen storage; Theoretical Condensed Matter Physics, Opto-electronic materials, 2D materials for Catalysis, CO2 conversion; Quantum materials for power generation and 5G/6G applications, High entropy oxides

COURSE COMPLETION CERTIFICATE

(On letterhead of Institute / College)

This is to certify that		
	Disc	eipline/ specialization has
completed / will be completing the		semester / year regular full
time	programme	(Name of the Degree) from
the	J	JGC/AICTE recognized
institute		on and has passed with an
aggregate mark of		
semester / year.		
His / Her Character and Conduct are		
		-
Place:		
Signature of the Head of the Institute with seal		
Date:		

Office Seal

OBC Certificate Format

FORM OF CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD CLASSES APPLYING FOR APPOINTMENT TO POSTS / ADMISSION TO CENTRAL EDUCATIONAL INSTITUTES (CEIs), UNDER THE GOVERNMENT OF INDIA

	This is	to certify that Shri/Smt./Kum . of Village/Town State belongs to the	Son/Daughter of Shri/Smt.
(i)	Resoluti	ion No.12011/68/93-BCC(C) dated 10/09/93 published in the Gazette of India	a Extraordinary Part I Section I No. 186
(ii)	Resoluti	ion No.12011/9/94-BCC dated 19/10/94 published in the Gazette of India 1/10/94.	Extraordinary Part I Section I No. 163
, ,	Resoluti 25/05/9:	ion No. 12011/7/95-BCC dated 24/05/95 published in the Gazette of India Ex 5.	traordinary Part I Section I No. 88 dated
(iv)	Resolut	tion No. 12011/96/94-BCC dated 9/03/96.	
	(v) 210 date	Resolution No.12011/44/96-BCC dated 6/12/96 published in the Gazette of 1 11/12/96.	India Extraordinary Part I Section I No.
	(vi) (vii)	Resolution No. 12011/13/97-BCC dated 03/12/97. Resolution No. 12011/99/94-BCC dated 11/12/97.	
	(viii)	Resolution No. 12011/68/98-BCC dated 27/10/99.	
	(ix) 270 date	Resolution No.12011/88/98-BCC dated 6/12/99 published in the Gazette of led 06/12/99.	India Extraordinary Part I Section I No.
	Resolut	Resolution No. 12011/36/99-BCC dated04/04/2000 published in the Gazette dated04/04/2000. tion No.12011/44/99-BCC dated21/09/2000 published in the Gazette of India 1/09/2000.	·
	(xi) (xii) (xiii)	Resolution No. 12016/9/2000-BCC dated 06/09/2001. Resolution No. 12011/1/2001-BCC dated 19/06/2003. Resolution No. 12011/4/2002-BCC dated13/01/2004.	
	(xiv) No. 210	Resolution No.12011/9/2004-BCC dated 16/01/2006 published in the Gazett dated 16/01/2006.	e of India Extraordinary Part I Section I
	(xv) (xvi)	Resolution No. 12015/2/2007-BCC dated 18/08/2010. Resolution No. 12015/2/2007-BCC dated 11/10/2010.	
	(xvii)	Resolution No. 12015/13/2010-BC-II dated 08/12/2011.	
	(xviii)	Resolution No. 12015/05/2011-BC-II dated 17/02/2014.	
	(xix)	Resolution No. 12011/6/2014-BC-II dated 07/12/2016.	
	Column	and/or his family ordinarily reside(s) in theeretify that he/she does not belong to the persons/sections (Creamy Layer) men 3 of the Schedule to the Government of India, Department of Personnel & Tr SCT) dated 08/09/93 which is modified vide OM No. 36033/3/2004 Estt.(Res.	ntioned in raining O.M. No. 36 012/22/93 -
	Dated:		
	District	Magistrate/ Deputy Commissioner, etc.	Seal

NOTE:

- (a) The term 'Ordinarily' used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950. The authorities competent to issue Caste Certificates are indicated below:
- (i) District Magistrate / Additional Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / First Class Stipendiary Magistrate / Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner (not below the rank of Ist Class Stipendiary Magistrate).
- (ii) Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
- (iii) Revenue Officer not below the rank of Tahsildar and
- (iv) Sub-Divisional Officer of the area where the candidate and/or his family resides.

FORMAT FOR SC/ST CERTIFICATE

A candidate who claims to belong to one of the Scheduled Caste or the Scheduled Tribes should submit in support of his claim an attested/certified copy of a certificate in the form given below, from the District Officer or the sub-Divisional Officer or any other officer as indicated below of the District in which his parents(or surviving parent) ordinarily reside who has been designated by the State Government concerned as competent to issue such a certificate. If both his parents are dead, the officer signing the certificate should be of the district in which the candidate himself ordinarily resides otherwise than for the purpose of hisown education. Wherever photograph is an integral part of the certificate, the Commission would accept only attested photocopies of such certificates and not any other attested or true copy.

(The format of the certificate to be produced by Scheduled Castes and Scheduled Tribes candidates applying for appointment to posts under Government of India)

This is to certify that Shri/Shrimati/Kumari*		_son/daughter of
of village/town/*	in	District/Division
of the State/Union Territory	_	
belongs to the Caste/Tribes Castes/Scheduled Tribes* under:-		
which is recognized as a Scheduled		
The Constitution (Scheduled Castes) order, 1950		
The Constitution (Scheduled Tribes) order, 1950		
The Constitution (Scheduled Castes) Union Territories order, 1951 *		
The Constitution (Scheduled Tribes) Union Territories Order, 1951*		
As amended by the Scheduled Castes and Scheduled Tribes Lists(Modification Act, 1960 & the Punjab Reorganization Act, 1966, the State of Himacha		
Area(Reorganization) Act, 1971 and the Scheduled Castes and Scheduled Tribe	es Orde	er(Amendment) Act, 1976.
The Constitution (Jammu & Kashmir) Scheduled Castes Order, 1956		
The Constitution (Andaman and Nicobar Islands) Scheduled Tribes Order, 195	9 as am	nendedby the Scheduled Castes
and Scheduled Tribes order (Amendment Act), 1976*.		
The Constitution (Dadra and Nagar Haveli) Scheduled Castes order 1962.		
The Constitution (Dadra and Nagar Haveli) Scheduled Tribes Order 1962@.		
The Constitution (Pondicherry) Scheduled Castes Order 1964@		
The Constitution (Scheduled Tribes) (Uttar Pradesh) Order, 1967 @		
The Constitution (Goa, Daman & Diu) Scheduled Castes Order, 1968@		
The Constitution (Goa, Daman & Diu) Scheduled Tribes Order 1968 @		
The Constitution (Nagaland) Scheduled Tribes Order, 1970 @		
The Constitution (Sikkim) Scheduled Castes Order 1978@		
The Constitution (Sikkim) Scheduled Tribes Order 1978@		
The Constitution (Jammu & Kashmir) Scheduled Tribes Order 1989@		
The Constitution (SC) orders (Amendment) Act, 1990@		
The Constitution (ST) orders (Amendment) Ordinance 1991@		
The Constitution (ST) orders (Second Amendment) Act, 1991@		
The Constitution (ST) orders (Amendment) Ordinance 1996		
The Scheduled Caste and Scheduled Tribe Orders(Amendment) Act 2002.		
The Constitution (Scheduled Caste) Orders(Amendment) Act 2002.		
The Constitution(Scheduled Caste and Scheduled Tribe) Orders(Amendment) A	ct 2002	2.
The Constitution (Scheduled Caste) Order (Amendment) Act 2007.		
%2. Applicable in the case of Scheduled Castes, Scheduled Tribes persons who	have m	igratedfrom one State/Union
Territory Administration		

This certificate is issued on the basis of the Scheduled Castes/ Scheduled tribes

Certificate issued to Shri/Shrimati	r/mother of Shri/Srimati/Kumari*
of village/town*	in
District/Division*of the State/UnionTerritory*	who belong to
theCaste/Tribe which is recognized as a	Scheduled Caste/Scheduled Tribe in the State/Union
Territory*issued by the date	l
%3. Shri/Shrimati/Kumari and /or * his/her family District/Division* of the of	ordinarily reside(s) in village/town*of State/Union Territory
Sign	ature
** Desi	gnation
(with	seal of office)
Place	
Date	
* Please delete the words which are not applicable @ Please	quote specific presidential order
% Delete the paragraph which is not applicable.	
NOTE: The term ordinarily reside(s) used here will have the the People Act, 1950.	same meaning as in section 20 of the Representation of
** List of authorities empowered to issue Caste/Tribe C	Certificates:
Commissioner/Taluka Magistrate/Executive Magistr	Magistrate/Sub-Divisional Magistrate/Extra-Assistant ate.
(ii) Chief Presidency Magistrate/Additional Chief Presidency	lency Magistrate/Presidency Magistrate.
(iii) Revenue Officers not below the rank of Tehsildar.	
(iv) Sub-Divisional Officers of the area where the candida	
<u>NOTE</u> : ST candidates belonging to Tamil Nadu state should DIVISIONAL OFFICER.	I submit castecertificate ONLY FROM THE REVENUE

INCOME & ASSET CERTIFICATE TO BE PRODUCED BY ECONOMICALLY WEAKER SECTIONS

Certificate No.			Date:
	VALID FOR THE Y	EAR	
This is to certify that Shri	/Smt./Kumari.	sor	n/daughter/wife of
	permanent	resident of	,
	village/street	Post Office	
District	in the S	tate/Union Territory	Pin Code.
Economically Weaker So (Rupees Eight Lakh only	_	whose photograph is attest nual income* of his/her family	
	. His/her family does not o	wn or possess any of the follo	owing assets***:
i) Residential plot of 1	000 sq. ft. and above. 00 sq. yards and above in	n notified municipalities. n. areas other than the notifie	ed municipalities.
2. Shri/Smt./Kumari	belongs to the	caste w	hich is not recognized as a
Scheduled Caste, Schedul	ed Tribe and Other Backwa	ard Classes (Central List).	
			Signature with Seal of offic
Descrit			Name
Recent passport		D	esignation
size		_	5
photograph			

** Note 2: The and siblings bel years.	term 'Family" for low the age of 18 y	this purpose inc years as also his	:lude the person :/her spouse and	, who seeks ber children below	nefit of reservative the age of 18	tion, his/her parents
	e property held by nd or property holo				aces/cities have l	been clubbed while

The form of certificate to be produced by PwD candidates applying for appointment to posts under the Government of India

1. NAME & ADDRESS OF THE INSTITUTE/HOSPITAL

Certificate No Date:

(i) B—Blind

(ii) PB—Partially blind

(ii) PD—Partially deaf

C. Hearing impairment: (i) D—Deaf

(Delete the category whichever is not applicable)

Recent passport size photograph

DISABILITY CERTIFICATE

	DISABILITI CERTIFICATE	
	Recent Photograph of the candidate showing the disability duly attested by the Chairperson of	the Medical Board.
	This is to certify that Shri/Smt/Kumari*	son/daughter* of
		is a case of
	Locomotor disability/ Cerebral Palsy/ Blindness/ Low vision/ Hearing impairment/ Other disability/	oility* and has been
	suffering from degree of disability not less than% ()
A)	Locomotors or Cerebral Palsy:	
	(i) BL—Both legs affected but not arms	
	(ii) BA—Both arms affected	
	(a) Impaired reach	
	(b) Weakness of grip	
	(iii) BLA—Both legs and both arms affected (iv) OL—One leg affected (right or left)	
	(a) Impaired reach	
	(b) Weakness of grip	
	(c) Ataxic	
	(v) QA—One arm affected (right or left)	
	(a) Impaired reach	
	(b) Weakness of grip	
	(c) Ataxic	
	(vi) BH—Stiff back and hips (cannot sit or stoop)(vii) MW—Muscular weakness and limited physical endurance. B. Blindness or Low	
	(vii) 141 W Museulai weakhess and innited physical chautance. D. Dinidhess of Low	
B)	Vision:	

2. This condition is progressive/non-progressive/likely to improve/not likely to improve. Reassessment of this case is not recommended/is recommended after a period of years' months. *					
3. Percentage of disability in his/her case is Percent.					
4. Shri/Smt./Kum meets the following physical requirements for discharge of his/her duties: — (i)F—Can perform work by manipulating with fingers. Yes/No (ii) PP—Can perform work by pulling and pushing. Yes/No (iii) L—Can perform work by lifting. Yes/No (iv) KC—Can perform work by kneeling and crouching. Yes/No (v) B—Can perform work by bending. Yes/No (vi) S—Can perform work by sitting. Yes/No (vii) ST—Can perform work by standing. Yes/No (viii) W—Can perform work by walking. Yes/No (ix) SE—Can perform work by seeing. Yes/No (x) H—Can perform work by hearing/speaking. Yes/No (xi) RW—Can perform work by reading and writing. Yes/No					
(Dr)	(Dr)	(Dr)			
(Dr) Member Medical Board	(Dr) Member Medical Board	(Dr) Member Medical Board			
	Member Medical Board	• •			
Member Medical Board Countersigned by the Medical Superintend	Member Medical Board	• •			
Member Medical Board Countersigned by the Medical Superintend	Member Medical Board	• •			
Member Medical Board Countersigned by the Medical Superintend	Member Medical Board	• •			
Member Medical Board Countersigned by the Medical Superintend	Member Medical Board	• •			

		[To b	e submitted at	the time of Admis	ssion]			
Certificate from the	repute	d Univers	ity / Institution	n/ Organization s	ponsor	ing their	r employees for P	h. D
Programme of IIITI	DM Kar	ncheepura	m - External s	cheme	•	O	1 0	
The application of	•	• • • • • • • • • • • • • • • • • • • •	workin	g as	• • • • • • •	in	••••••	•••••
since	i	s hereby 1	recommended	l and forwarded	for ac	lmissior	n under the Exte	rnal
Registration Scher	ne of th	e Indian	Institute of In	formation Tech	nology	, Design	and Manufactu	ring
Kancheepuram	for	Ph.D.	Research	programme	in	the	Department	of
•••••	• • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •					

- 1. This organization has adequate facilities for carrying out the research indicated by the applicant and if he/she is selected, these will be made available to him/her during regular working hours till the completion of the programme.
- 2. The applicant will be deputed/given leave for the duration of his/her residence period at IIITDM Kancheepuram. The applicant will be given permission to attend the required class for completing coursework.
- 3. Facilities will be made available to the Co-guide to supervise the work of the applicant and to attend the meetings at IIITDM Kancheepuram whenever 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 Kancheepuram will be informed within a month of such transfer. We understand that continuing of registration will depend on the decision of IIITDM Kancheepuram in this regard, taking into account all relevant factors.
- 5. We note that the facilities of the Institute will be made available to him/her for carrying out the research work and that there will be no separate charge (other than the fees prescribed payable by the candidate from time to time) for the use of laboratory, library and other facilities.
- 6. No part of the work carried out in fulfillment of the Research programme will be utilized commercially or for applying for a Patent without the approval of the Indian Institute of Information Technology, Design and Manufacturing Kancheepuram and other than on terms mutually agreed to by IIITDM Kancheepuram and this organization.

Date: Signature of the Officer:

Seal of the Organization

Name and Designation:

Postal address of the Organization:

[To be submitted at the time of Admission]

Particulars of Co-guide for External Registration Scheme (Ph.D under External category)

In addition to being in a position to ensure technical and logistic support to the scholar in his/her research work in the organization, the Co-guide must be a Ph.D and adequate professional experience in the relevant field. The Co-guide should not himself/herself be a scholar/pursuing for similar higher degree of any university. He/She will be an invitee to the Doctoral Committee at IIITDM, Kancheepuram.

1. Name of Proposed Co-Guide : (in block letters)
2. Academic qualifications of Co-Guide :
3. Membership (if any) in professional Societies for Co-guide :
4. Designation of Co-guide :
5. E-Mail ID and contact number :
Certificate of Co-guide
This is to state that the event of Mr./Ms of this
organization being selected for PhD Programme in the Department of under the External Registration
Scheme of IIITDM, Kancheepuram. I agree to be his/her Co-guide and shall extend all possible facilities to enable him/her research programme towards the submission of thesis.
Date: Signature of Co-guide

NOC for the candidates applying under Project category [To be submitted at the time of applying]

The application of is here	eby recom	mended and forwa	rded for admission under the
Project category of the Indian Institute of Information	Technolog	y, Design and Man	ufacturing Kancheepuram for
Ph.D. Research programme in the Department of			
DETAILS OF PROJECT AS UNDER			
1. Project Number	:		
2. Title of the Project	:		
3. Sponsoring Agency	:		
4. Duration of the project	: From:	To:	(M)
5. Total value of the project	:		
6. Project Investigator / Co-Project Investigator	:		
7. Date of Joining as a JRF			
8. Fellowship amount details	:		
There is no objection for him/her to apply for the PhD	nrogramm	e under project cate	egory
There is no objection for initial net to apply for the Thib	programm	under project cate	5017.
Signature of Guide		Dean (SRICCE)	/ Dean (Sponsor Project)
Signature of Guide		Dean (SKICCE)	/ Dean (Sponsor Troject)
Date:			
Date.			