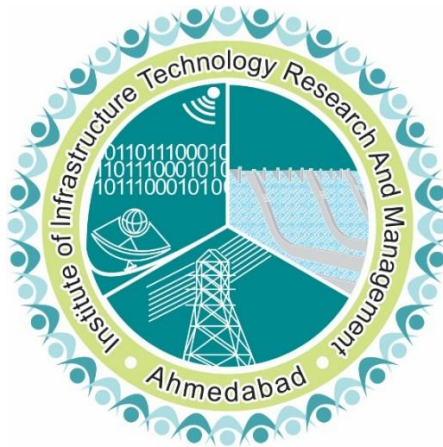


Institute of Infrastructure, Technology, Research And Management  
Ahmedabad

Ph.D. Admission Policy and Procedure



Ph.D. 2021-2022 (Autumn Semester) Admission

# Institute of Infrastructure, Technology, Research And Management Ahmedabad

## **Ph. D. 2021-2022 (Autumn Semester) Admission Policy and Procedure**

Applications are invited for (A) Regular and (B) Part-Time Ph.D. Programme from eligible candidates at the Departments of (i) Civil Engineering, (ii) Electrical and Computer Science Engineering, (iii) Mechanical and Aero-space Engineering, (iv) Humanities and Social Sciences (English, Sociology, Economics) (v) Basic Sciences (Chemistry, Mathematics and Physics) for the academic year 2021-2022 (Autumn Semester). Regular Ph.D. Programme is offered under the category of (i) Sponsored Candidate (ii) Self-Financed Candidate and (iii) Fellowship Awardee (FA).

### **1. Admission Categories:**

#### **A. Regular Ph.D. Programme**

- (i) Sponsored Candidate [College / Polytechnic Teacher / Government Organization / Public Sector Unit Only]

Candidates need to be sponsored by their employers for doing research work in the Institute. They are expected to be released for fulltime course work and research at the Institute for a minimum period of three years. This category also includes the candidates who are released from Government organizations or educational institutions on study leave for a period not less than three years for doing research work at IITRAM. They will not receive any financial support from IITRAM. Sponsorship letter should be submitted at the time of interview.

- (ii) Self-Financed Candidate

Any candidate fulfilling the eligibility criteria for Ph.D. admissions can apply as Self-Financed candidate. These candidates have to complete their programme within the prescribed time without any financial support from IITRAM.

- (iii) Fellowship Awardee (FA)

Candidates under this category are necessarily financially supported under various Govt. / Semi Govt. schemes (QIP, CSIR, UGC, DAE, DST, DBT, NBHM, etc.) and some other organizations (as per the norms of those organizations). They will not receive any financial support from IITRAM.

- Minimum one semester course work at IITRAM is mandatory in the first year of admission.

## **B. Part-Time Ph.D. Programme**

Faculty members working in reputed academic institutions can apply under the Part-Time Ph.D. programme.

- The competence of these candidates will be assessed along with the regular candidates.
- Place for research will be treated as IITRAM even though candidates may be carrying out part of the work at their Institute.
- NO OBJECTION CERTIFICATE (NOC) from the employer must be submitted, giving an undertaking that the candidate would be relieved from the normal duties to fulfill the coursework requirements (and comprehensive examination, if applicable), along with the application (Enclosed).
- The candidates selected under this category shall not be entitled for any financial support from IITRAM.
- The Candidates are required to fulfill the coursework requirement (and comprehensive examination, if applicable) of the Ph.D. Programme which is likely to be for a minimum of one semester.
- After fulfilling the residential requirement of course work, these candidates will be allowed to register for Ph.D. with a Supervisor from the Institute. Appointment of external co-supervisor is optional based on recommendations of the supervisor and review committee.

Prospective students satisfying the eligibility criteria are advised to acquaint themselves before applying with the research areas of the faculty members of Institute for suitable match of interest.

## **2. Minimum Eligibility Criteria, for Regular and Part-Time Ph.D. Programme:**

Candidate shall possess the following in appropriate subject areas:

- **Engineering/Technology:**  
Master's Degree in Engineering/Technology or equivalent degree, with First Class\* or 60% marks (55% marks for SC/ST) and Bachelor's degree in Engineering/Technology with First class\* or 60% marks (55% marks for SC/ST).
- **Basic Sciences:**  
Master's degree in Science or Engineering or equivalent degree, with First class\* or 60% marks (55% marks for SC/ST) and Bachelor's degree in Science or Engineering with First class\* or 60% marks (55% marks for SC/ST)
- **Humanities and Social Sciences:**  
Master's degree in Arts / Commerce / Science / Engineering / Technology or equivalent degree with 55% marks (50% for SC/ST) and Bachelor's degree in Arts / Commerce / Science / Engineering / Technology with First class\* or 60% marks (55% marks for SC/ST) or Post graduate Diploma of 2 years duration with 55% marks (50% for SC/ST) and Bachelor's degree in Arts / Commerce / Science / Engineering / Technology with 60% marks (55% marks for SC/ST)

**Note:** \*First Class as required in eligibility criteria is meeting ANY ONE of the following:

For general category candidates:

1. A minimum of 60% marks in the final academic year of the programme.
2. A minimum of 60% marks in aggregate or as specified by the university (any one of them).
3. A First Class as specified by the university.
4. A minimum Cumulative Grade Point Average (CGPA) or Cumulative Performance Index (CPI) of 6.0 on the scale of 10; with corresponding proportional requirements when the scales are other than on 10, (for example, 4.8 on a scale of 08.)

For candidates satisfying minimum eligibility criteria, following additional credentials (as applicable) are desirable:

- (a) Valid GATE/CEED score.
- (b) Junior Research Fellowship (JRF) of CSIR/UGC/NBHM/DBT or DST INSPIRE Fellowship or UGCNET Lectureship (LS).
- (c) Minimum 2 years of professional experience (acquired after obtaining the qualifying post graduate degree and completed before the starting of the semester in which admission is sought).

### 3. Course Credit Requirements:

Sr. No.	Candidate having	Range of Credit requirement	Remarks
1	M.Tech., M.Arch./MURP, MCA or M.Tech./M.Phil (Integrated / IDD) or equivalent, admitted to Engineering/Technology Departments	Minimum 4 theory courses with at least 10 credits from theory courses. In addition to above, 2 credits from seminar. A total of minimum 12 credits are required.	Courses from the existing M.Tech. and/or pre-Ph.D. courses offered by own Dept./other Depts.
2	M.Sc./M.A./M.B.A./PG Diploma of 2 years duration or equivalent, admitted to Science/ HSS Departments	Minimum 5 theory courses with at least 14 credits from theory courses. In addition to above 2 credits from seminar. A total of minimum 16 credits are required.	Courses From the existing PG level and/or pre-Ph.D. courses offered by own Dept./ other Depts.

**Note:** All research scholars in Engineering & HSS have to take minimum 2 core theory subjects.

#### 4. Admission Procedure:

##### Step I: Fill up the Application Form Online

The application form is available on the Institute website - [www.iitram.ac.in](http://www.iitram.ac.in).

Fill it up properly and submit the duly filled application form online from 12<sup>th</sup> May 2021 to 11<sup>th</sup> June 2021. Incomplete applications will be rejected.

*(Note: There is no application fee.)*

##### Step II: Selection:

Admission is offered on the basis of performance in the interview (via online mode). The Departmental Research Committee will shortlist the candidates for interview. Merely satisfying the eligibility criteria do not guarantee being called for interview (via online mode). The candidates shortlisted for the Interview (via online mode) can be asked to give a brief presentation on any topic of their research interest.

##### Step III: Verification of Documents & Confirmation of Admission (Online):

The candidates are advised to take a print out of the filled in application form along with the affixed photograph, sign at appropriate place and submit the same enclosing self-attested scanned documents (via online mode) in a single pdf file not exceeding 15 MB within the date as mentioned in the schedule below. The admission shall be confirmed upon the payment of the fees as per the schedule.

#### 5. Fees Structure:

The candidates who have been offered admission shall have to pay the fees as shown below:

<b>Semester Fees:</b>	
○ Tuition Fees for Sponsored candidates / Self-Financed candidates	Rs.35,000/-
○ Tuition Fees for Fellowship Awardee candidates	Rs.20,000/-
○ Tuition Fees for Sponsored SC/ST/SEBC candidates or Self-Financed candidates of SC/ST/SEBC	Rs.30,000/-
○ Hostel Fees	Rs.6000/-
○ Mess Fees # (For Breakfast, Lunch, Dinner and Snacks) (Rs. 165/- per day)	Rs.25080 /-
○ Stationery Fees	Rs.1000/-
<b>Yearly Fees:</b>	
○ Insurance Charges (approx.)	Rs. 2000/-
<b>One Time Fees:</b>	
○ Institute Caution of Money (Refundable)*	Rs.1500/-
○ Hostel Caution Money (Refundable)**	Rs.5000/-
○ Mess Caution Money (Refundable)**	Rs.4000/-

*# Adjusted at end of semester*

*\*Refundable at end of Programme*

*\*\*Refundable at end of Hostel Stay*

Students not staying in the Hostel and not availing the mess facility are exempted from the payment of Hostel and mess related fees. The above Fees have to be paid through NEFT/RTGS (Other details shall be provided with admission confirmation mail). The fee is subject to revision from time to time. No request for the fees refund shall be entertained.

## 6. Important Dates:

Particulars	Important Dates*
Opening of Application Portal and submission of online application	12 <sup>th</sup> May 2021 to 11 <sup>th</sup> June 2021
Last date for submission of scanned Application form with all necessary enclosures	11 <sup>th</sup> June 2021 (By 17:00 Hrs.)
Announcement of short-listed candidates for interview	16 <sup>th</sup> June 2021 (By 17:00 Hrs.)
Conduct of Interview and Verification of documents (via online mode)	Dates will be announced later
Display of result	
Payment of Fees	
Commencement of Term	

*\*Disclaimer: Dates may change subject to the prevailing COVID-19 situation.*

## 7. Hostel and Mess Facilities:

The Hostel and Mess related fees are applicable to those candidates only who have been offered admission to IITRAM and are keen to avail the Hostel and Mess Facilities. Such candidates should apply for the admission to Hostel and mess at time of physical verification of documents at IITRAM Campus. All the Hostel and Mess rules will be applicable to the candidates availing these facilities.

## 8. Condition Precedent:

The above policy and procedure is subject to modification. If a dispute arises regarding any of the above provisions, the decision of the Competent Authority of the Institute shall be final and binding to all and subject to Ahmedabad jurisdiction only.

**9. List of Potential Supervisor 2021-2022 for Autumn Semester:**

**DEPARTMENT OF BASIC SCIENCES**

<b>Sr. No.</b>	<b>Name of Faculty Member</b>	<b>Research Area</b>
1	Dr. Gautam Borisagar	Representation Theory/Number Theory
2	Dr. Mohit Kumar	Fuzzy Optimization/Reliability
3	Dr. Brajesh Tiwari	Condensed Matter Physics
4	Dr. Dheeraj Kumar Singh	Spectroscopy, Advanced Materials, Nanomaterials, Renewable Energy
5	Dr. Sourav Das	Coordination Chemistry and its applications
6	Dr. Mahuya Bandyopadhyay	Material Chemistry, Heterogeneous Catalysis, Nanomaterials, Biofuels

**DEPARTMENT OF CIVIL ENGINEERING**

<b>Sr. No.</b>	<b>Name of Faculty Member</b>	<b>Research Area</b>
1	Dr. Himanshu Sharma	Water Resources Engineering and Hydrology
2	Dr. Manoj Langhi	Hydraulics and Water Resources Engineering
3	Dr. Jai Devi Jeyaraman	Environmental Engineering
4	Dr. Yogesh U. Shah	Pavement Engineering
5	Dr. Jiten Shah	Traffic Engineering
6	Dr. Anand Mehta	Remote Sensing Data Processing
7	Dr. Mahesh Mungule	Structural Engineering, Sustainable Construction Materials, Fracture mechanics
8	Dr. Mamta Sharma	Stability analysis of RC structures under seismic excitation
9	Dr. Trudeep N. Dave	Ground Improvement and Geosynthetics Applications, Sustainable Geotechnical Engineering

**DEPARTMENT OF ELECTRICAL AND  
COMPUTER SCIENCE ENGINEERING**

<b>Sr. No.</b>	<b>Name of Faculty Member</b>	<b>Research Area</b>
1	Dr. Dipankar Deb	Adaptive Control Systems, Renewable Energy (Wind, Solar, Fuel Cells, Bioenergy) Systems, Machine Learning
2	Dr. Axay Kumar Mehta	Sliding Mode Control, Networked Control System, Multi-agent System
3	Dr. Abhishek Rawat	Satellite Navigation, Antenna design, Peripheral Security, Robotics and Drones
4	Dr. Priyesh Chauhan	Distributed energy resources, Battery energy storage integration, Off-grid generation, Microgrids
5	Dr. Manish Sharma	Machine Learning, Signal Processing, Biomedical, Communication
6	Dr. Krupa Shah	Condition Monitoring of Electrical Machines, Electrical Vehicles, Artificial Intelligence
7	Dr. Kshitij Bhargava	Thin Film Photovoltaic, VLSI Design and Thin Film Transistors
8	Dr. Raghavendra Bhalerao	Digital Image processing, Applications of IP to Remote Sensing, Medical Image analysis
9	Dr. Manjunath K.	Microgrids, Power and Energy systems
10	Dr. Dharmendra Sadhwani	Wireless Communications
11	Dr. Ramnarayan Yadav	Edge Computing, Internet of Things, Computer Networks

**DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES**

<b>Sr. No.</b>	<b>Name of Faculty Member</b>	<b>Research Area</b>
1	Dr. Meera Vasani	Eco-criticism, Diaspora Literature, Indigenous Literature, Feminism in Indian English Literature, Cultural studies
2	Dr. Pravin Jadhav	International Business, Infrastructure Management
3	Dr. Shukkoor T.	Health, Wellness & Society, Development and Social Change, Infrastructure and Society, Profession and Ethics, Law and Justice
4	Dr. Watitula Longkumer	Indigenous literatures, Indigenous Knowledge Systems, Contemporary Indigenous Feminisms and related Indigenous women's history and literature, The Literary and the Digital Humanities



**DEPARTMENT OF MECHANICAL AND AERO SPACE ENGINEERING**

<b>Sr. No.</b>	<b>Name of Faculty Member</b>	<b>Research Area</b>
1	Dr. Pramod Bhingole	Manufacturing and materials Engineering
2	Dr. Gautam Choubey	Supersonic Combustion, Flow-field analysis of Supersonic combustor, CFD modelling of blood flow
3	Dr. PL. Ramkumar	CAD/CAM/CIM, Material Processing and characterization
4	Dr. Jagat Jyoti Rath	Human-Machine Interaction Control, Cooperative Control, Guaranteed Estimation, Aerial Robotics and Drones
5	Dr. Kumar Abhishek	Modeling and Optimization of Production Processes, Industrial Engineering
6	Dr. Dileep Kumar Gupta	Refrigeration, Indoor air quality, cold chain, thermal engineering, CFD, MEMS, Heat transfer in Bio Medicals
7	Dr. Sumit Tripathi	Computational and Experimental Fluid Dynamics, Complex Fluids, Interface Science
8	Dr. Ajit Kumar Parwani	CFD, Heat Transfer, Renewable energy and Environmental Progress, Hybrid Engine
9	Dr. Mithilesh Kumar Dikshit	Conventional and nonconventional machining process, Metal cutting, Nano composite
10	Dr. Navneet Khanna	Sustainable Manufacturing, Additive Manufacturing, Machining, Welding
11	Dr. Ganesh Iyer	Solid and applied mechanics, Modelling and simulation of material defects & defect structures, Epitaxial thin films & devices.
12	Dr. Kamlesh Joshi	Non-Conventional machining, Thermal modelling, Machining of hard to machine material
13	Dr. Saurabh Kumar Yadav	Fracture mechanics, lubrication, XFEm, Vibration
14	Dr. Ajit Kumar	Data-driven Modeling and Parameter Identification, Flight Mechanics and Control, UAVs

\* \* \*

**PROFORMA FOR NO OBJECTION CERTIFICATE**  
**TO BE PRINTED ON LETTER HEAD OF THE ORGANIZATION**  
**(For the Part- time Ph.D. Programme)**

No. \_\_\_\_\_

Date.: \_\_\_\_\_

**NO OBJECTION CERTIFICATE**

This is to certify that Mr/Ms./Mrs \_\_\_\_\_ is working as a (Designation) in (Department name) at (Name of organization) since \_\_\_\_\_ till date.

(Name of organization) has no objection for Mr./ /Ms./Mrs. \_\_\_\_\_ to take the admission for Ph.D as a Part-time Research Scholar in Institute of Infrastructure Technology Research and Management, Ahmedabad, Gujarat.

He/she will be given permission to fulfil the coursework requirements as per Ph.D norms of IITRAM.

**(Signature and Seal)**  
**Head of the Organization**

Place:  
Date: