

# **INSTITUTE OF INFRASTRUCTURE, TECHNOLOGY, RESEARCH AND MANAGEMENT**

(An Autonomous University established by Government of Gujarat)

**B.Tech. | M.Tech. | Ph.D**

INSTITUTE OF  
INFRASTRUCTURE  
TECHNOLOGY  
RESEARCH  
AND  
MANAGEMENT

**INSTITUTE BROCHURE (2025-26)**



# Life@IITRAM





# About IITRAM

Institute of Infrastructure, Technology, Research And Management (IITRAM) was established by the Government of Gujarat as an Autonomous University in 2013 with an aim to bring about significant change in engineering education with respect to technical and managerial knowledge in the area of Infrastructure. The objective of this Institute is to serve as a Center of Excellence in Research and Teaching in all areas pertaining to Infrastructure. The Institute has a vision of acquiring a status of National Importance in Infrastructure and related areas.

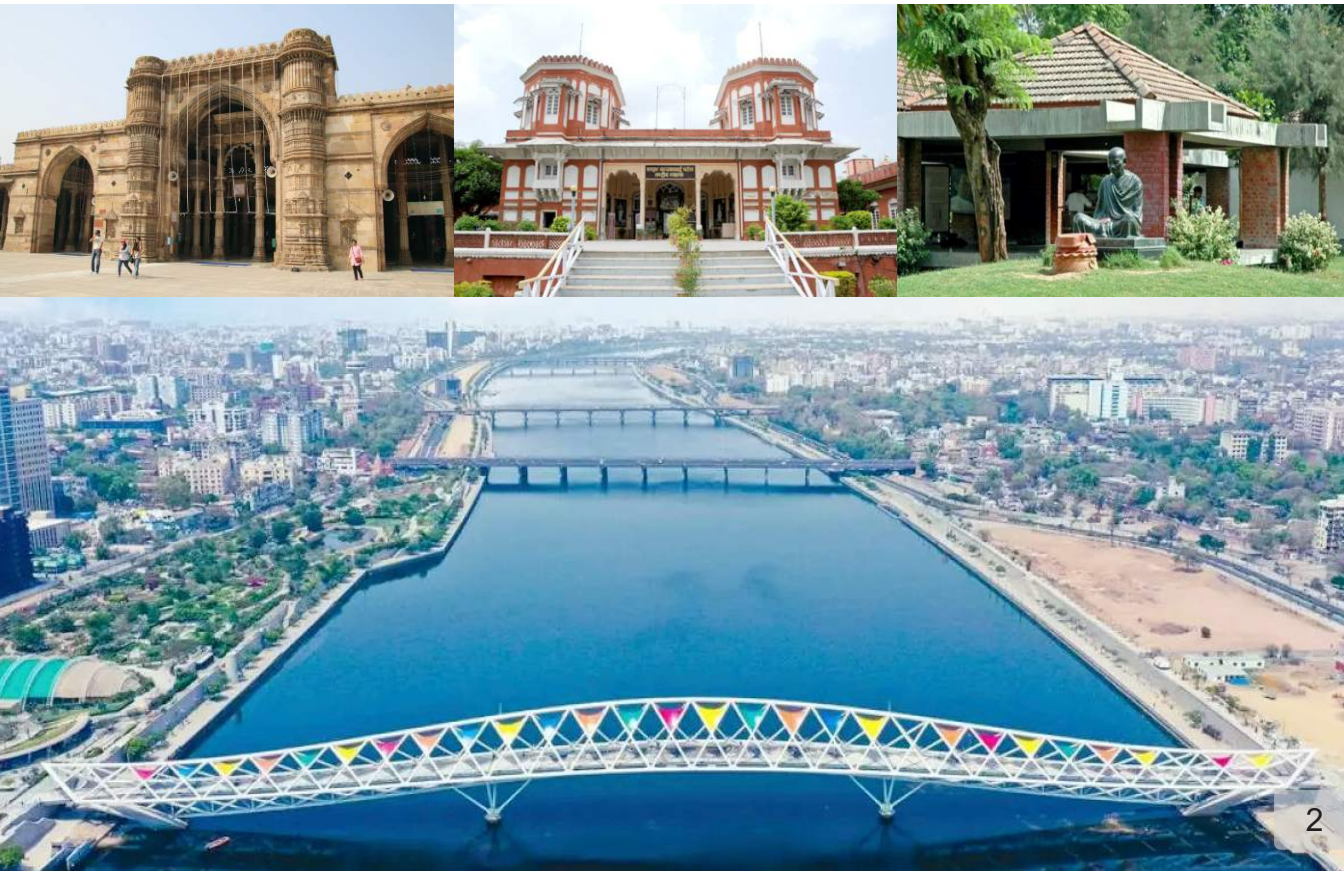
IITRAM is located in Maninagar (East), Ahmedabad, Gujarat, which is one of the oldest living cities in India; known for both its rich cultural history as well as state-of-the-art Infrastructure, thriving industries and many modern amenities. Ahmedabad is declared as a World Heritage City by UNESCO. The city is well connected nationally/internationally by road, rail and air.



# About Ahmedabad

Ahmedabad, one of India's fastest-growing cities, boasts well-developed infrastructure with a blend of modern and historic elements. It has a robust road network, including the Sardar Patel Ring Road and BRTS (Bus Rapid Transit System), ensuring smooth urban mobility.

The Sabarmati Riverfront Project has enhanced public spaces, while the metro system is expanding connectivity. Industrial zones, IT parks, and world-class educational institutions contribute to its economic growth. With smart city initiatives and sustainable urban planning, Ahmedabad continues to evolve as a major commercial and cultural hub in India.





# About Gujarat

Gujarat is one of India's most industrially advanced and infrastructurally developed states, playing a vital role in the country's economic growth. Strategically located with a long coastline, it boasts an extensive network of ports like Mundra and Kandla, which support robust trade and logistics.

The state has made significant investments in roadways, railways, and urban transport systems, contributing to seamless connectivity across industrial hubs. Gujarat's well-planned industrial zones, including Special Economic Zones (SEZs) and the Delhi-Mumbai Industrial Corridor (DMIC) node, enhance its appeal for investment. Additionally, proactive governance and public-private partnerships have driven the rapid development of smart cities, renewable energy projects, and water management systems, positioning Gujarat as a model for sustainable infrastructure growth in India.



# Board of Governors



**Prof. Sudhir K. Jain**

Former Vice Chancellor,  
Banaras Hindu University  
Chairman, BoG, IITRAM



**Smt. Sunaina Tomar (IAS)**

Additional Chief Secretary to Government,  
Education Department  
(Higher & Technical Education)  
Member (Ex-officio)



**Shri K. K. Nirala (IAS)**

Secretary, Expenditure (I/C)  
Finance Department,  
Government of Gujarat,  
Member (Ex-officio)



**Shri B. H. Talati (IAS)**

Commissioner Technical Education  
Government of Gujarat  
Member (Ex-officio)



**Dr. Sunil Parekh**

Strategic Advisor and  
Head of Corporate Affairs  
Zydus Cadila & Jubilant Bhartia Group



**Prof. Gaurav Srivastava**

Department of Civil Engineering  
IIT Gandhinagar



**Prof. Dheeraj Sanghi**

Vice Chancellor  
JK Lakshmipat University,  
Jaipur



**Shri Anand Mohan Tiwari**

Former Additional Chief Secretary,  
Government of Gujarat



**Shri Mukesh M. Shah**

Managing Partner,  
Shah Bhogilal Jethalal & Bros



**Prof. Pramod Kumar Jain**

Director General, IITRAM  
Member (Ex-officio)



**Shri Chintamani P. Joglekar**

Registrar, IITRAM  
Secretary

# Academic Council



**Prof. Pramod Kumar Jain**

Director General, IITRAM  
Chairman (Ex-officio)



**Prof. Vikram Gadre**

Department of Electrical Engineering  
IIT Bombay  
Member



**Prof. M. K. Barua**

Director, (SoET)  
Member



**Prof. S.K. Barai**

Director  
BITS Pilani, Pilani Campus  
Member



**Prof. S. P. Mehrotra**

Visiting Professor  
IIT Gandhinagar  
Member



**Dr. Kumar Abhishek**

Dean  
Student Affairs  
Member



**Prof. Axaykumar Mehta**

Dean  
Academic Affairs  
Member



**Dr. Dileep Gupta**

Head of the Department  
Department of Mechanical & Aerospace Engg.  
Member



**Dr. Jaidevi Jeyaraman**

Head of the Department  
Department of Civil Engineering  
Member



**Dr. Prakash A. Dabhi**

Head  
Department of Basic Sciences  
Member



**Shri Chintamani P. Joglekar**

Registrar, IITRAM  
Secretary



# Infrastructure Facility

## Academic Area

- Modern Classroom with AC facilities
- Central Library
- Engineering Workshop & 60+ Laboratories
- Gymnasium & Clubs
- Medical/Health room
- Sports Arena & Cafeteria
- Relaxing Room for Girls
- Open Air Theatre & Print/Xeroxing Facilities
- Design Lab & e-Yantra Lab

## Hostel/Residential Area

- Capacity: 960 Boys + 288 Girls
- Guest House
- Swimming Pool
- Indoor Games
- Computer Center
- Students' Mess

Main Building



Language Lab



Central Library



Classroom



Gym



Reading Room



Sports Center



Cafeteria





# Institute Achievements



**192 rank**

as per NIRF ranking  
during 2022

**NIRF**

ranked in  
2023- 24

**5 star rating**

Ranking Frame work  
(GSIRF - 2024)

**Faculty**

All are  
Ph.D. Holders

**Less than 10**

student to faculty  
ratio

**1000+**

Research Papers  
published

**74 | 04 | 47**

Research Scholars |  
thesis submitted | awarded

**555**

collective  
h- index

**80+ | 33**

Patents Filed and  
Granted

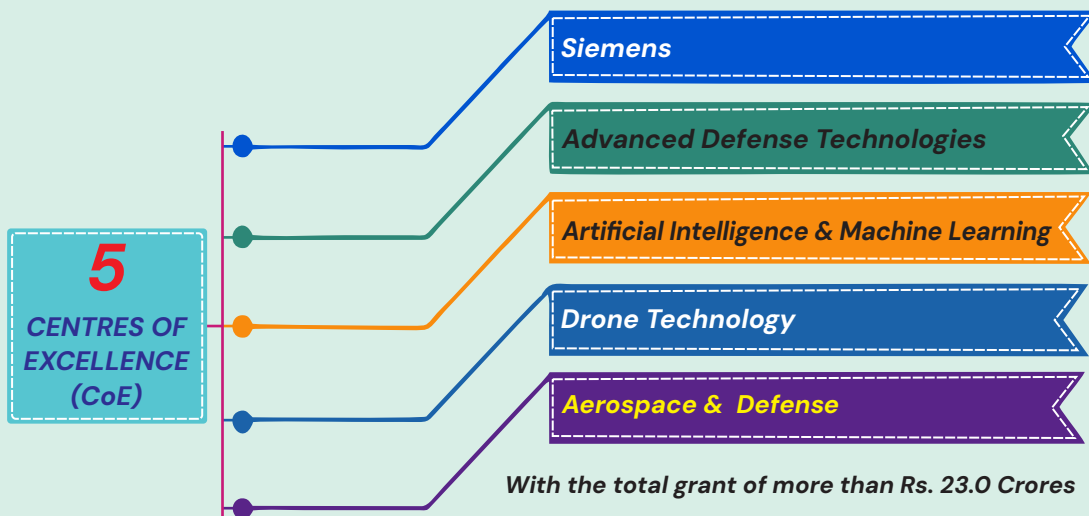
**189**

Books/Chapters  
Published

**26**

Research Projects approved by  
with a total grant of Rs. **565** Lakhs

- Technical Consultancy Services to Govt, Semi-Government & Private Sector Organizations.
- Providing Advanced teaching-learning system through MOOCs, MOODLE, NPTEL, Coursera, etc.



# Programs Offered

## Courses

Program	Discipline		Intake
<b>B.Tech. (4 Years)</b>	Civil Engineering		108
	Electrical Engineering		96
	Mechanical Engineering		96
	Computer Engineering		84
<b>M.Tech. (2 Years)</b>	Civil Engineering	In all specializations	20
	Electrical Engineering	In all specializations	25
	Mechanical Engineering	In all specializations	15
<b>Ph.D.:</b> Civil, Electrical, Mechanical and Computer Engineering, Basic Sciences, Humanities and Social Sciences.			

### Minor Programs:

- Drone Technology
- Computer Science & Engineering
- Management

### Honours Programs:

- Civil Engineering
- Electrical Engineering
- Mechanical Engineering
- Computer Engineering

### Additional Learning:

- Avenues of additional learning by taking extra courses are open as envisaged in NEP 2020.

### Micro-Specialization Programs:

- Cryptography and Number Theory
- Computational Mathematics
- Corrosion Science and Technology
- Solar Energy Materials & Technology
- Human Resource Management
- Infrastructure Finance
- Construction Management
- VLSI Design
- Cyber Security
- Data Analytics and Machine Learning
- Industrial Safety Engineering & Management
- Nanotechnology & Functional Nanocomposites
- Intelligent Human Robot Interactions



## Faculty Members

Dr. Anand Mehta  
Ph.D.-IIT Kanpur (2017)

Dr. Ayyanna Habal  
Ph.D.-IIT Bombay (2020)

Dr. Himanshu Sharma  
Ph.D.-IIT Roorkee (2016)

Dr. Jaidevi Jeyaraman  
Ph.D.-IIT Kanpur (2012)

Dr. Jiten Shah  
Ph.D.-SVNIT Surat (2016)

Dr. Kannan Iyer  
Ph.D.-IIT Bombay (2015)

Dr. Mahesh Mungule  
Ph.D.-IISc Bangalore (2012)

Dr. Mamta Sharma  
Ph.D.-IIT Delhi (2014)

Dr. Manoj Langhi  
Ph.D.-Kyoto Uni. Japan (2013)

Dr. Nishant Sharma  
Ph.D.-IIT Guwahati (2020)

Dr. Rohan Kar  
Ph.D.-IIT Bhubaneswar (2023)

Dr. Trudeep Dave  
Ph.D.-IIT Bombay (2013)

Dr. Veerabhadra Rotte  
Ph.D.-IIT Bombay (2014)

Dr. Yogesh Shah  
Ph.D.-IIT Roorkee (2014)

## Achievements/Highlights

- Research projects (5 with total amount Rs. 107.66 lakhs).
- Total publications (Last 5 years) **75+** Journal papers and **80+** Conference papers.
- Patents: Published – **21**, Granted – **12**.
- B.Tech. and M.Tech. students of Civil Engineering, IITRAM received The Gujarat Institute of Civil Engineers and Architects (GICEA) Gold Medals for 3 consecutive years.
- Conduct regular site visits for students to give them exposure on live projects.
- Training of practicing engineers/technicians-**800+** (L & T and affiliated organizations for high speed rail project, AMC Engineers, GWSSB Engineers etc.).
- Providing research and consultancy services for top organization in India and abroad.

## Important Laboratories:

- Hydraulics Laboratory
- Surveying & Geoinformatics Laboratory
- Soil Mechanics Laboratory
- Transportation Engineering Laboratory
- Smart & Sustainable Materials Laboratory
- Advanced Instrumentation Laboratory
- Environmental Engineering Laboratory
- Construction Materials Laboratory
- Structural Analysis Laboratory
- Concrete Laboratory



## Faculty Members

Dr. Abhishek Rawat  
Ph.D. – MANIT Bhopal (2012)

Dr. Ashish Soni  
Ph.D. – IIT Dhanbad (2022)

Dr. Axaykumar Mehta  
Ph.D. – IIT Bombay (2009)

Dr. Dharmendra Sadhwani  
Ph.D. – MANIT Bhopal (2018)

Dr. Krupa Shah  
Ph.D. – IIT GN (2015)

Dr. Kshitij Bhargava  
Ph.D. – IIT Indore (2016)

Dr. Manish Sharma  
Ph.D. – IIT Bombay (2015)

Dr. Manjunath K  
Ph.D. – IIT Hyderabad (2017)

Dr. Prasun C Tripathi  
Ph.D. – IIT Dhanbad (2022)

Dr. Priyesh Chauhan  
Ph.D. – IIT Delhi (2014)

Dr. Raghavendra H. Bhalerao  
Ph.D. – IIT Bombay (2016)

Dr. Rahul Kumar  
Ph.D. – IIT Jodhpur (2020)

Dr. Ram Narayan Yadav  
Ph.D. – IIT Patna (2017)

Dr. Ravi Bhandari  
Ph.D. – IIT Bombay (2020)

## Achievements/Highlights

- Highest Publications, books and granted patents in the institute.
- Collaboration with reputed research organizations/industries like SAC-ISRO, GCRI Ahmedabad, National University of Singapore, Queensland University Australia, Kumamoto University Japan, GETCO- Vadodara, Hyundai Transformers-USA, Solid Pro-Chennai, etc.
- Recognition of a faculty member in the department among the top 2% of researchers worldwide for 5 consecutive years (2019–2023) as published by the Stanford University.
- ~12 years of average experience of the department faculty.
- >700 average citations of the department faculty.
- Significant number of research/consultancy projects amounting to Rs.1.8 Crores.

## Important Laboratories:

- Power Systems Laboratory
- Communication Systems Laboratory
- Control Systems Laboratory
- Electrical Machines Laboratory
- Electronics Devices & Circuits Laboratory
- High Performance Computing facility
- Distributed Computing and Networking Laboratory
- Information Systems and Data Analytics Laboratory
- Computing Laboratory





# Department of Mechanical & Aerospace Engineering

Email:hod\_mech\_aero@iitram.ac.in

## Faculty Members

Dr. Ajit Kumar  
Ph.D. – IIT Kanpur (2019)

Dr. Ajit Kumar Parwani  
Ph.D. – IIT Delhi (2013)

Dr. Dileep Gupta  
Ph.D. – BITS Pilani (2014)

Dr. V M Ganesh Iyer  
Ph.D. – IIT Kanpur (2018)

Dr. Kamlesh Joshi  
Ph.D. – IIT Bombay (2019)

Dr. Kumar Abhishek  
Ph.D. – NIT Rourkela (2016)

Dr. M K Barua  
Ph.D. – IIT Madras (2008)

Dr. Mithilesh K. Dikshit  
Ph.D. – NIT West Bengal (2016)

Dr. Navneet Khanna  
Ph.D. – BITS Pilani (2013)

Dr. PL. Ramkumar  
Ph.D. – BITS Pilani, Goa (2016)

Dr. Pramod Bhingole  
Ph.D. – IIT Roorkee (2014)

Dr. Sumit Tripathi  
Ph.D. – IIT Bombay (2017)

## Achievements/Highlights

- International Conference Organized :07.
- Workshop STTP/FDP Conducted:26.
- Research Projects: 17 (Rs.155.69 lakhs (Completed) + Rs. 542.81 lakhs (Ongoing).
- Research Publications: 312 (Journals) + 353 (Conferences + Book Chapters) Citations: 11829, H Index:156.
- Patents: (15 Granted + 22 published).

## Add on Program: Honours Program

- Minor in Drone Technology
- Micro-specialization
  1. Intelligent Human Robot interactions
  2. Nanotechnology and functional Nanocomposites
  3. Industrial Safety Engineering and Management

## Important Laboratories:

- Advanced Refrigeration and Air Conditioning Laboratory
- Central Workshop Facility
- Aerodynamics And Propulsion Laboratory
- Internal Combustion Engine Laboratory
- Heat And Mass Transfer Laboratory
- State-of-the-art Robotics and Automation Laboratory
- Theory of Machines And Mechanisms Laboratory
- Fluid Machinery Laboratory
- Advanced Manufacturing Processes Laboratory
- Strength of Materials Laboratory
- Dynamics and Vibration Laboratory
- Metrology Laboratory
- Material Science & Engineering Laboratory
- CAD/CAM High Speed Computational Laboratory
- Aerial Robotics Laboratory



## Faculty Members

Dr. Brajesh Tiwari  
Ph.D. – IIT Madras (2014)

Dr. Gautam Borisagar  
Ph.D. – IIT Bombay (2014)

Dr. Mahuya Bandyopadhyay  
Ph.D. – Ruhr Uni, Germany (2005)

Dr. Manoj Choudhuri  
Ph.D. – TIFR (2015)

Dr. Mohit Kumar  
Ph.D. – IIT Roorkee (2013)

Dr. Prakash A. Dabhi  
Ph.D. – SP University (2010)

Dr. Ravi Kashikar  
Ph.D. – IIT Madras (2020)

Dr. Sourav Das  
PhD – IIT Kanpur (2014)

Dr. Sudhakar Chaudhary  
Ph.D. – IIT Delhi (2014)

## Achievements/Highlights

The Department of Basic Sciences comprises of Physics, Chemistry and Mathematics disciplines.

**Mathematics:** Mathematics discipline has a very dynamic and strong team. There are five faculty members who have research specialization in areas like Banach Algebras, Harmonic Analysis, Fuzzy Sets and its applications in Reliability, Multi-Criteria Decision Making, Optimization, and Statistics, Intuitionistic Fuzzy Set Theory, Partial Differential Equations, Finite Element Methods, Isogeometric Analysis (IGA), Mesh-free Methods. Number Theory, Modular Representation Theory, Modp- Local Langlands Program. Number Theory and Dynamical Systems, Lie Groups and Topological Groups.

**Chemistry:** The faculty members in Chemistry have expertise in the field of Physical, Inorganic, Applied and Material Chemistry. Chemistry laboratory is designed to support and illustrate chemical concepts studied in the lecture portion. This laboratory is equipped with high end equipment like Gas Chromatography, UV Visible Spectrophotometer, Heating Oven, Muffle Furnace, High Vacuum Pump, Rota Evaporator, Heat Controlled Magnetic Stirrer, Heating Mantle, pH Meter, Conductivity Meter, Potentiometer, UV Chamber etc.

**Physics:** The faculty members in Physics are working in the area of theoretical and experimental fields. The theoretical research is focused on the investigation of material properties through Density Functional Theory. We currently use packages like Quantum Espresso and Wien2k to carry out the simulations at the Institute's High-Performance Computing Facility.

## Important Laboratories:

- Chemistry Laboratory
- Physics Laboratory
- Mathematics Laboratory





## Faculty Members

Dr. I Watitula Longkumer  
Ph.D. IIT Indore (2018)

Dr. Meera A. Vasani  
Ph.D. Saurashtra Uni. (2013)

Dr. Pravin Jadhav  
Ph.D. IIFT (2015)

Dr. Saurabh Sinha  
Ph.D. Banaras Hindu Uni (2022)

Dr. Shukkoor.T  
Ph.D. IIT Kanpur (2014)

## Achievements/Highlights

- The Department comprises of four disciplines including Economics, English, Psychology, and Sociology with faculty offering a wide range of graduate and postgraduate courses and engaging in interdisciplinary research on contemporary issues.
- The Department offers doctoral programmes in all four disciplines. The Ph.D. programme has been running since 2017 offering advanced research opportunities. At present, there are 11 research scholars working towards their Ph.D. degrees and 04 students have already been awarded their degrees.
- The Department offers a Minor in Management program to students from all branches of engineering. Alongside, the Department also offers Micro Specialization programs in Human Resource Management and Infrastructure Finance.
- The HSS Department leads impactful research, including AYUSH product exports (₹10L), Jal Jeevan Mission Outcomes (₹9L), Bhil Socio-Cultural Studies (₹6L), PM Fasal Bima Yojana Assessment (₹10.89L), and Naga Oral Heritage Documentation (₹4L), showcasing its commitment to multidisciplinary and nationally significant projects.

## ICT-Enabled Skills Lab

- The Department has developed an advanced, futuristic Skills Lab emphasizing activity-based learning and real-life simulations to internalize soft skills effectively.
- The lab offers structured modules on Communicative English, Leadership, Teamwork, Interview Skills, and more, ensuring skills are practiced, monitored, and measured for lifelong impact.
- The lab is equipped with a console, audio-visual technology, and specialized language learning software, allowing students to practice language skills interactively through digital tools like listening exercises, recording their speech, and interacting with virtual conversations.



## Coordinator

Dr. Pramod Bhingole

## Co-coordinator

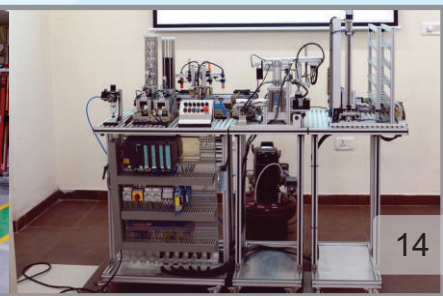
Dr. Priyesh Chauhan

## Achievements/Highlights

- Training Programs: Organized 14 programs with 815 participants, covering topics like PLC, SCADA, Induction Motor, NX-Designers, Synchronous Modeling, Drafting, Sheet Metal Design, Advanced Simulation, Mechatronics, and Rapid Prototyping.
- Workshops: Conducted 2 workshops on Siemens NX and Siemens Automation with 150 participants. Also hosted workshops on Metallography and Microstructure (50 participants) and Advanced 3D Casting Design and Simulation Techniques.
- Seminars: Held 2 seminars on Industrial Automation and Mechatronics with 200 participants. Additionally, hosted an invited talk by Prof. V. Vitry on "Cemented Carbides – The Importance of Ball Milling Parameters."
- Student Exchange Program: Facilitated a visit for 10 IITRAM students to the Siemens plant in Bangalore.
- Internship Opportunities: Placed 20 IITRAM students in Siemens companies for internships.
- Additional Visits: Students of the 3rd Semester Manufacturing Department of CIPET visited the Siemens Center of Excellence at IITRAM.

## Important Laboratories

- CIM Laboratory
- Electrical Laboratory
- RPT (Rapid Prototyping Lab)
- Mechatronics Laboratory
- Design & Validation Laboratory
- CNC Programming Laboratory
- Automation Laboratory
- Process Instrumentation Laboratory
- Advance Manufacturing Laboratory



**Coordinator**

Dr. PL Ramkumar

**Co-coordinator**

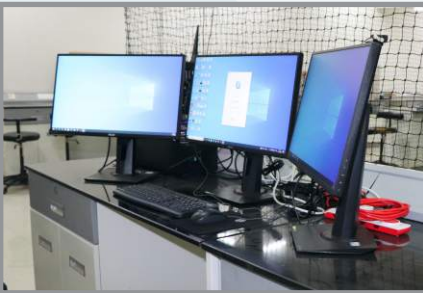
Dr. Kamlesh Joshi

**Achievements/Highlights**

- Successfully offered elective courses to undergraduate students of IITRAM in collaboration with the Institute of Defence Scientists & Technologists (IDST)–a registered society approved by DRDO and recognized as a Scientific and Industrial Research Organization by DSIR, Ministry of Science & Technology, Government of India.
- The Institute of Defence Studies and Research (IDSR) established in partnership with Gujarat University.
- Organized two high-impact expert talks on Electronic Warfare Systems and Bioinspired Robotics, providing valuable exposure to cutting-edge defence and technological advancements.
- Successfully hosted the 5th International Conference on Recent Advances in Mechanical Infrastructure (ICRAM 2025) in association with the Centre for Systems Science and Technology (CSST), IIT Roorkee and the Department of Mechanical Engineering, SVNIT Surat.
- Filed and secured a 10-year patent on material innovations related to quadcopter design and development, marking a significant contribution to UAV research and technology.
- Published high-quality research outputs in peer-reviewed SCI/Scopus -indexed journals, international Conferences, and edited book volumes, reinforcing the Centre's academic footprint.
- Established a dynamic ecosystem for B.Tech final year projects and internships, benefitting students from IITRAM as well as those from other premier and regional institutions across India.
- Procured advanced instrumentation and computational facilities to support research and development in next-generation defence technologies, including simulation, prototyping, and material testing.

**Important Laboratories**

- Autonomous Vehicles Research Studio
- Control and Navigation of Aerial Vehicles Laboratory
- Signal Processing and Sensors Laboratory
- Advanced Material Testing Laboratory (Under process)





## **Coordinator**

Dr. Abhishek Rawat

## **Co-coordinator**

Dr. Ajit Kumar

## **Achievements/Highlights**

- Induction of high and VTOL Drone
- Different categories of multicolor drones
- High-end thigh simulator facility
- 3D printer
- Sensor and thigh controller models.
- NAVIC interim with drones
- Three rained/DGCA certified pilot
- Internship offered to B.Tech./M.Tech. students collaboration with Sankardham Drone Academy.

## **Important Laboratory**

- Drone Technology Lab

## **Key Contributions**

- Assembled Drones of different classification – Nano, Micro and Small. Drones of different design – Quadcopter, Hexa-copter.
- Intel Xeon workstation with dedicated graphics for simulation.
- Drone with RTK equipment for centimeter accuracy.
- Extensive different types of Assembled Drone.
- Components like Airframes, ESCs, BLDC motors, Battery, Flight controller, Navigation module, Flight sensors, Carbon fiber materials, etc.
- 3-D Printer using PLA, ABS, and PETG, Testing and Calibration Facility.
- Drone Flight Simulator.



# Artificial Intelligence and Machine Learning

**Coordinator**  
Dr. Ashish Soni

**Coordinator**  
Dr. Raghavendra Bhalerao

## Achievements/Highlights

- Training programs on using High performance computing facility and AI-ML application design using python programming.
- Research work in the domain of Electrical Infrastructure, Healthcare with industry partners.
- Summer Research Internship for UG students.

## Important Laboratories

- High performance computers facility (L-604)
- Information systems and data Analytics lab (Final stage of setup ( L-308)

## Activities

- Research projects in the domain of AI-ML + Healthcare and AI-ML + Transportation.
- Workshops, training programs and expert talks.
- Student research internships.
- Phase-2 of facility setup for Big-data processing with additional budget from Government of Gujarat (planned).



## Coordinator

Dr. Sumit Tripathi

## Co-coordinator

Dr. Mithilesh Dikshit

### Achievements/Highlights

- Minor Programme in Drone Technology (earlier Minor in Aerial Robotics) offered to B.Tech. students as per mandate of CoE A&D.
- 3 state-of-the-art laboratories are developed Aerial Robotics, Aerodynamics and Propulsion and High Speed Computational Laboratories having various specialized equipment(s).
- Trained Manpower – 48 UG students, including minor programme and B.Tech. final year projects, 4 PG students for their M.Tech. thesis work, and 2 PhD students (ongoing).
- Support to incubation of defence related startups in SSIP IITRAM.
- 2 research projects with funding of 28.2 Lakhs are supported by CoE- Aerospace and Defence.
- Providing research facilities to students as well as faculty/staff.
- Publications in international journals (5), reputed international conferences (7), and patents (1 filed).
- Organized two Invited Talks by ISRO Scientists, and multiple outreach activities are planned in the next year – National Conference (1), STTP (1), Workshop (1), Invited Talks (2).

### Laboratories and Equipments

- Aerial Robotics Laboratory: Various UAVs, Flight Controllers, Indoor & Outdoor Testing Facilities, UAV Flying Arena.
- Aerodynamics & Propulsion Lab: Computer Controlled Axial Flow Gas Turbine Test Rig, Subsonic Wind Tunnel, Aerodynamics Trainer, Smoke Generator, Pitot Tube with Mountings, Digital Multi-Tube Manometer, Six-Component Balance, Pulsating Heat Pipe, PPE kits.
- High Performance Computational Laboratory: High-end Workstations/ Servers, CMOS Camera.
- Parametric analysis of the end milling process, stability & tool wear modelling of ball end milling, experimentation on turning process.
- Designing of direct energy deposition based additive manufacturing setup for fabrication of aerospace structural parts, comparative machinability analysis of aerospace materials.





# Student Activity Center (SAC)

## Activities and Celebrations

Email: SAC@iitram.ac.in

### Chairperson

Dr. Mithilesh K. Dikshit

### President

Satyam Kumar

### Vice President

Shrey Chaudhari

### Vice President

Sakshi Sureka

### Achievements/Highlights

- Students can join a group or activity of their choice. It strives to install a culture of sportsmanship and teamwork among students.
- Providing them sports, cultural, and technological facilities.
- SAC hosts a wide range of clubs, such as sports and games, literary and cultural, science and technology.
- Various clubs which are managed by the students under the guidance of SAC's Chairperson, Vice-Chairperson and Dean (Student Affairs).

### Clubs

#### Satellite Clubs under Sports & Games

- Chess club
- Kabaddi Club
- Gymnasium
- SKI

#### Satellite Clubs under Literary & Cultural

- Fine Arts
- Performing Arts
- Singers Club
- Drama Club
- NEST Club
- INK
- Dayatva
- Economics Club
- NSS

#### Satellite Clubs under Science & Technology

- Coding Club
- Robotics and Aero modelling Club



**Chairperson**

Dr. Mahesh Mungule

**Co-Chairperson**

Dr. Ganesh Iyer

**Achievements/Highlights**

- The Career Development Cell (CDC) at the IITRAM is dedicated to fostering strong partnerships between recruiters and students, ensuring a seamless and rewarding placement experience. By collaborating with IITRAM, organizations gain access to a diverse pool of exceptionally talented and motivated individuals eager to contribute their skills and knowledge to organizational objectives.
- To facilitate effective communication and interaction during the placement process, IITRAM offers state-of-the-art facilities, including advanced audio-visual equipment and cutting-edge video conferencing capabilities. The Training and Placement Cell works closely with companies to ensure a streamlined placement process tailored to specific requirements, connecting recruiters with the most suitable candidates.
- In the 2023-24 placement season, IITRAM achieved a 100% placement rate, with an average package of ₹4.82 lakhs per annum. Out of 106 students registered for placements, 38 opted for higher studies or competitive examinations, while the remaining 68 students secured a total of 85 job offers.

**Some of our Recruiters**

**Dean**  
Dr. Manish Sharma

## **MoUs with Leading International and National Universities, Research Organizations and Industries including:**

### **International Collaborations:**

- Kunsan National University (KNUS), Republic of Korea
- Louisiana State University Shreveport (LSUS), USA
- University of Bath, UK
- Hiroshima University, Japan
- University of the Basque Country, Spain
- University of Ljubljana, Faculty of Mechanical Engineering, Slovenia
- CESI Graduate School of Engineering, France
- The Indian High School, Dubai, UAE

### **National Collaborations:**

- CSIR–Central Road Research Institute (CRRRI), New Delhi
- Indian Institute of Technology, Ropar
- Indian Institute of Technology, Roorkee
- Indian Institute of Technology, Patna
- SVNIT, Surat
- Gujarat Knowledge Society (GKS), Ahmedabad

## **Academic and Research Collaborations with leading international universities, including:**

- LSUS, USA
- Japan Kumamoto University, Japan
- Hiroshima University, Japan
- University of South Queensland, Australia

### **Student–Led Startups, including:**

- Rudraboat
- Skill3D
- Nakshatra Labs
- Biosteem
- Funding Support for Student Startups, Innovations, and Intellectual Property Rights (IPR).
- Expert Talks by leading industry professionals and renowned academicians.
- Organization of International and National Conferences, Workshops, and Short–Term Training Programs in collaboration with IITs, international universities, and research organizations.





## Dean

Dr. Manish Sharma

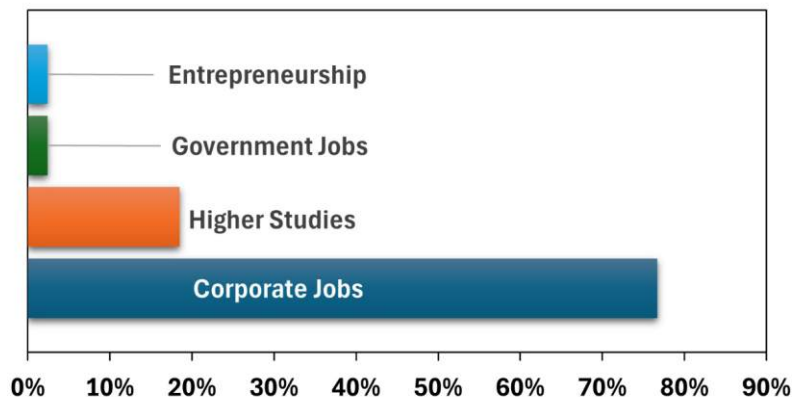
## Coordinator

Dr. Ravi Bhandari

## Achievements/Highlights

- Currently 1200+ Alumni registered.
- Alumni working in various Industries and Academia including Mercedes Benz, Air India, Tata Elxsi, IOCL, Hitachi, Cognizant, American Express, IIM Bodh Gaya, Infosys, TCS, Micron among others.
- Many Alumni are running successful ventures and providing jobs. Notable among them are Vayunotics, Pratham, etc.
- Alumni Cell is running a series titled "Know Your Alumni", where Alumni from different areas come and interact with the students of IITRAM, share their journey, and motivate them towards becoming successful engineers and thinkers.
- Alumni cell has planned events such as Batch photograph, E-Summit, Annual Alumni Meet and others.

## Our Alumni



**Coordinator**  
Dr. Yogesh Shah

**Team Leader**  
Dr. Gautam Borisagar

**Team Leader**  
Dr. Ajit Kumar

**Team Leader**  
Dr. Jiten Shah

**Team Leader**  
Dr. Priyesh Chauhan

**Team Leader**  
Dr. Pravin Jadhav

## About SSIP 2.0:

SSIP 2.0 is a Student Start-up and Innovation Policy launched by Education Department, Government of Gujarat under which Institute is receiving the Financial Grants to support the innovation and start-up ideas of students. The duration of this program is from October 2023 to March 2027.

## Achievements/Highlights

- **Holistic Ecosystem:** The SSIP Cell aims to create a comprehensive ecosystem that supports student-led innovation and entrepreneurship, from ideation to product development and market entry.
- **Pre-Incubation Support:** The policy provides pre-incubation support to help students develop and refine their ideas.
- **Resource Availability:** The SSIP Cell provides access to a variety of resources, including financial support, technical expertise, mentorship, and networking opportunities.
- **Emphasis on Education:** The Cell's initiatives are designed to equip students with the knowledge, skills, and mindset necessary to succeed in the world of entrepreneurship.
- **Collaboration and Partnerships:** The SSIP Cell collaborates with various stakeholders, including industry experts, mentors, and other ecosystem players, to provide comprehensive support to students.
- **Focus on Sustainable Impact:** The Cell's efforts are aimed at creating a sustainable impact on the startup ecosystem in Gujarat, fostering a culture of innovation and entrepreneurship.
- **SSIP 2.0 in IITRAM has reached over 1000+ students by conducting Sensitization Programs.**
- **Financial support for Proof of Concept / Prototype Projects: 09 Projects, Rs. 4.53 lacs.**
- **Financial support for IPR fillings: 26 IPR, Rs. 7.93 Lacs.**
- **Mentorship provided for Projects: 40+.**



# Students' Feedback



**Jeet Patel**

B.Tech.  
Civil Engineering  
2017–2021  
Structure Engineer,  
Technip Energies,  
Gandhinagar

I want to express my gratitude for the education, training, and guidance I received during my time at IITRAM. The faculty and staff were truly dedicated to their work, and went above and beyond to ensure that we received the best possible education. I believe that the education and experiences I gained during my time at IITRAM have had a significant impact on my career and personal growth. I would like to thank IITRAM for the memories and experiences that have shaped my life. It is an honor to be a part of the IITRAM community and I look forward to contributing to the institution in any way possible.



**Tanmay Pancholi**

B.Tech.  
Mechanical Engineering  
2018–2022  
Co-Founder & CTO,  
QOPTO Technologies Pvt. Ltd.

Since I came from Vadodara, this institute for me always stood as a home away from home where I got an entire team of highly qualified faculties alongside the lifelong hostel memories. The support and guidance that I got here, got me through my entire BTech career; may it be faculty, staff or friends. The SSIP Cell at IITRAM boosts up all the Tech savvy minds and helps them direct their idea towards a product, which in my case turned out as me being a Director and CTO (Chief Technology Officer) of the drone-tech startup which was initiated at SSIP which now is a Private Limited company.



**Atrey Solanki**

B. Tech.  
Mechanical Engineering  
2016–2020  
Grade-A Officer,  
Indian Oil Corporation Ltd.,  
Jamnagar, Gujarat.

I have spent amazing 4 years (2016–20) in IITRAM doing my B.Tech in Mechanical engineering discipline which I'll always cherish. I met some of the best teachers who guided me to do better and best in my career. They were all very supportive in friendship and competitive during study at the same time, which is the best thing any student could wish for during college life. IITRAM had given me ample opportunities through various fests to display my hobbies. I consider myself lucky enough to have encounter of all these experiences, Good ones as well as Bad ones which shaped me as a person I am today.



**Shreyansh Shukla**

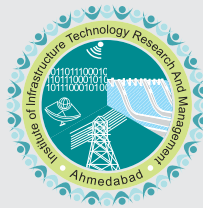
B. Tech.  
Mechanical Engineering  
2014–2018  
Deputy Executive  
Engineer, Govt. of Gujarat  
Ex-Scientific Officer,  
Department of Atomic  
Energy, Govt. of India

IITRAM provides excellent platform to prepare for almost any type of future endeavours, be it competitive examinations for govt jobs, start up, Research, higher studies from premium institutes and many more. Expert faculties from all the fields are available to guide you towards your goal. IITRAM also provides state-of-the-art equipment to enhance your skills in latest technology. I feel very lucky and blessed to be part of this institute.



# Equipment@IITRAM





# **INSTITUTE OF INFRASTRUCTURE, TECHNOLOGY, RESEARCH AND MANAGEMENT**

**(An Autonomous University established by Government of Gujarat)**

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