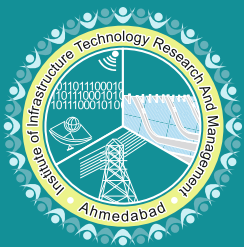


ANNUAL REPORT

AY 2024-25



**INSTITUTE OF
INFRASTRUCTURE, TECHNOLOGY,
RESEARCH AND MANAGEMENT
(IITRAM)**

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ABOUT IITRAM

Institute of Infrastructure, Technology, Research And Management (IITRAM) has been established in 2013 by the Government of Gujarat as an Autonomous University and has been mandated 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, and the Institute has a vision of acquiring a status of National importance in Infrastructure and related areas.

IITRAM offers Bachelor and Master of

Technology programs in Civil Engineering, Electrical and Computer Engineering, and Mechanical Engineering. The Institute also offers Ph.D. programs in various fields in Basic Sciences, Engineering, Humanities and Social Sciences.

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.



ACADEMIC CAMPUS



RESIDENTIAL CAMPUS



VISION & MISSION

VISION

Institute of Infrastructure, Technology, Research And Management has been established to contribute to the community of world-leading researchers by promoting excellence within disciplines and inter-disciplinary teams, tackling global challenges, providing cultural enrichment and thereby, benefitting the economy. With a continuously updated curriculum, the University strives to achieve excellence in teaching and research, with a vision to be amongst the best institutions in our country and abroad. One of the aims of the University is to provide a conducive environment that fosters multi-front skill development and overall growth of the students. By enhancing the teaching and assessment methods continuously, and keeping up with the latest technologies, the University aims to achieve excellence in student learning experience. The development of scientific and technical team work, the nourishment of the expertise in scientific innovation and interdisciplinary research are the basic constituents of the University. The University strives to make continuous efforts towards establishing quality and transparent value system for education, research and entrepreneurship.

MISSION

- To transmit a high level of knowledge in the fields of engineering, sciences and humanities
- To train the students for problem solving, leadership, and team work by the application of acquired knowledge and skills, and to develop the students' competence to work on interdisciplinary projects
- To foster communication skills in students to help them in effective professional growth and gaining knowledge advancement
- To stimulate critical thinking in students through understanding of scientific methods and elements of logic, for the purpose of analysis and augmented reasoning
- To inculcate a code of understanding and respecting differences with a high level of interaction, to serve the larger objective of contributing towards nation building
- To imbibe the capacity of ethical reasoning and the development of a system of values as an individual and collective obligation.



FROM THE DESK OF DIRECTOR GENERAL



Prof. Pramod Kumar Jain
Director General, IITRAM



IITRAM, established in 2013 by the Government of Gujarat as an autonomous university, has grown into a multi-disciplinary institution with strong academic and research foundations. The institute, in its twelfth year, continues to uphold its vision and mission of promoting excellence in teaching and research in diverse fields of engineering, and fostering an entrepreneurial and start-up culture.

This year has been marked by several significant milestones, such as IITRAM achieved a 5-star rating in the category of Universities for the third consecutive year, as awarded by the Knowledge Consortium of Gujarat (KCG), the institute secured grants for a Centre of Excellence in Smart, Sustainable, and Disaster Resilient Infrastructure, adding to the existing six Centres of Excellence, as well as for the development of Advanced Computer Engineering Laboratories. The institute offers thirteen micro-specialization programmes, aligned with industry requirements and the evolving demands of contemporary education. Campus infrastructure development got major boost with the inauguration of new Girls' Hostel, Boys' Hostel, and E-1 Type Staff Quarters. The major highlights of the current annual report are our impressive placement performance record, and the details of outreach and industry-academic collaborations through conferences, training programmes, and workshops.

I take pride in IITRAM's sustained commitment to cultivating a culture of excellence, innovation, and integrity in the domain of engineering education and research. The accomplishments of this year are a testament to the unwavering dedication of our students, faculty, staff, and well-wishers. As we look ahead, we carry with us the confidence of a growing institution and the collective responsibility to set higher benchmarks for academic excellence and societal impact.

Jai Hind

5 STAR RATING

IITRAM secured prestigious **5 star rating** in the category of 'UNIVERSITIES' for the third consecutive year by the Executive Committee of the Knowledge Consortium of Gujarat (KCG) established by the Department of Education, Government of Gujarat on the recommendation of the duly appointed agency, the Indian Centre for Academic Rankings & Excellence (ICARE).



FUNDED RESEARCH @ IITRAM

Government Funding Approved for Center of Excellence at IITRAM

The Government of Gujarat has approved a grant of **Rs. 5 crores** for the establishment of a **Center of Excellence in Smart, Sustainable, and Disaster Resilient Infrastructure** at IITRAM. This initiative aims to promote cutting-edge research and innovation in sustainable infrastructure development.

Rs. 5.8 Crore Grant for Advanced Computer Engineering Laboratories

IITRAM has received **Rs. 5.8 crores** from the Government of Gujarat to set up state-of-the-art laboratories for the Computer Engineering program.

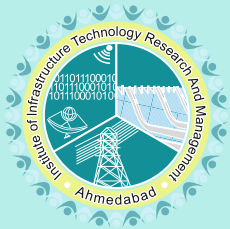
Funded Research Projects:

Completed Project : **Rs. 397.96 Lakh**

Ongoing Projects : **Rs. 301.09 Lakh**



FUNDING @ IITRAM



Inductotherm (India) donated a **15 kW Induction Heating and Melting System**, valued at approximately **Rs. 17 lakhs**, to IITRAM workshop as part of its CSR initiative.

This advanced equipment will enhance hands-on training and research in thermal engineering and metal processing.



ACHIEVEMENTS & HIGHLIGHTS

Ranking Frame work
(GSIRF - 2024)
5 Star Rating

NIRF 2025
State Public Universities
Band 51 - 100

One Nation
One Subscription
ONOS

Research Papers
Published
1200+

Books/Chapters
Published
200+

Patents Filed |
Granted
85+ | 35+

Student to faculty
Ratio
Less than 15

All Faculty
members are
Ph.D. Holders

Collective
h- index
62

Ph.D. Thesis
ongoing | submitted | awarded
86 | 06 | 51

Total Research Projects | Total Grant
32 | Rs. 687 Lakhs

**Total grant of Rs. 24 Cr
for Centers of Excellence (COE)**

CADT : 12 cr | AD : 5 cr
Drone : 5 cr | AIML : 2 cr

- **Technical Consultancy Services:** Government, Semi-Government & Private Sector Organizations.
- **Advanced Teaching - Learning:** MOOCs, MOODLE, NPTEL, Coursera, etc.



BOARD OF GOVERNORS



Prof. Sudhir K. Jain
Former Vice Chancellor,
Banaras Hindu University
Chairman, BoG, IITRAM



Smt. Sunaina Tomar (IAS)
Additional Chief Secretary
(Higher and Technical Education)
Government of Gujarat,
Member (Ex-officio)



Shri K. K. Nirala (IAS)
Secretary, Expenditure
Finance Department
Government of Gujarat,
Member (Ex-officio)



Shri Dinesh Ramesh Gurav (IAS)
Director of Technical Education
Government of Gujarat,
Member (Ex-officio)



Dr. Sunil R. Parekh
SPoC Sustainability @ Zydus Group and
Strategic Advisor @ Jubilant Bhartia Group
Fellow ICA Arbitration
Member



Dr. Dinesh Kumar Sharma
Department of Civil Engineering
IIT Bombay
Member



Prof. Yogesh Desai
Department of Civil Engineering,
IIT Bombay
Member



Shri Anand Mohan Tiwari
Former Additional Chief Secretary,
Government of Gujarat
Member



Mr. Mukesh M. Shah
Chair Industry Relationship
& Past President of Ahmedabad Chapter, FSAI
CEO & Managing Partner,
Shah Bhogilal Jethalal & Bros.
Member



Prof. Shailendra Raj Mehta
President & Director
MICA
Member



Prof. Pramod Kumar Jain
Director General, IITRAM
Member (Ex-officio)



Dr. Yogesh Shah
I/C Registrar, IITRAM
Secretary, (Ex-officio)



ACADEMICS @ IITRAM

IITRAM offers B.Tech., M.Tech., Ph.D. programs in Civil, Electrical, Mechanical and Computer Engineering. The institute also offers Ph.D. programs in Basic Sciences and Humanities and Social Sciences.

Minor, Honours, and Micro Specialization programs are offered across core, emerging, and interdisciplinary domains. These programs are designed to strengthen technical depth, industry relevance, and research orientation. Students benefit from a flexible curriculum that supports skill enhancement and innovation. The academic structure aligns with national education reforms and evolving global standards.

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



DEPARTMENT OVERVIEW

CIVIL ENGINEERING



Programs offered



B.Tech.
Civil Engineering,
Civil (Honours)



M.Tech.
Urban Infrastructure
Geotechnical Engg



Ph.D.
Civil Engineering
(All Specializations)



Strengths

14 State-of-the-Art
Labs

1 Cr+ Annual
Consultancy

1000+ Practicing
Engineers
Trained



Students & Alumni

151 Students
Enrolled

404 Students
Graduated

08 Ph.D. Thesis
submitted/
awarded

MAJOR LABORATORIES

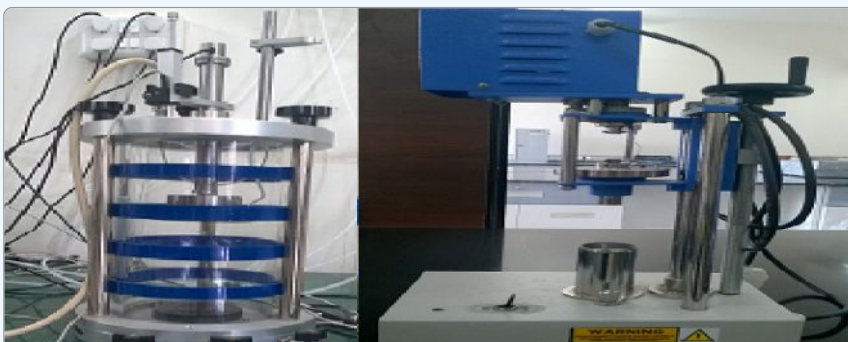


Hydraulics Laboratory

This lab explores fluid flow principles, performs experiments on pipe and open channel flows. The lab is equipped with Rain Fall Simulator along with all other modern instruments for experimental simulation of fluid flow.

Surveying Laboratory

This lab focuses on learning to measure and map the land. It utilizes total station, GPS, levels for precise surveying.



Soil Mechanics Laboratory

This lab conducts tests to determine the physical & engineering properties of soil for construction, focusing on classification, strength, compressibility, and permeability.



Smart & Sustainable Materials Laboratory

This lab focuses on advance sustainable materials, recycled aggregates, and reutilization of waste in Civil Engineering. It is equipped with instruments such as large direct shear apparatus laminar air flow cabinet, Autoclave, shaker Incubator, BOD incubator, Deep Freezer loading frames.

Structural Engineering Laboratory

This lab studies the behavior of beams, columns slabs, and frames. It is equipped with Universal testing machine (UTM), a compression testing machine, a beam testing setup, a rebound hammer and ground pertaining radar.



Environmental Engineering Laboratory

This lab is used for testing and analyzing water, wastewater, soil, and air samples to evaluate quality and design treatment solutions. Common activities include measuring pH, turbidity, dissolved oxygen, BOD, COD, and nutrients, as well as conducting jar tests.

Construction Material Laboratory

This lab provides practical knowledge of construction materials such as bricks, cement, aggregates, concrete, and bitumen. Students study their physical properties like density, specific gravity, strength, and ductility. It is also equipped with concrete durability test setups.



Transportation Engineering Laboratory

This lab focuses on pavement materials, pavement design, traffic engineering, road safety, and transportation planning. It is equipped with modern instruments for testing of road construction materials and supports research for safe and efficient transportation systems.

DEPARTMENT OVERVIEW

ELECTRICAL ENGINEERING



Programs offered



B.Tech.
Electrical Engineering



M.Tech.
Electrical Infrastructure
Communication Engg



Ph.D.
Electrical Engineering
(All Specializations)



Strengths

15 State-of-the-Art
Labs

14 Sponsored
Research
Projects

18 Granted
Patents



Students & Alumni

413 Students
Enrolled

443 Students
Graduated

11 Ph.D. Thesis
submitted/
awarded

MAJOR LABORATORIES



Power System Laboratory

The Lab supports undergraduate experiments and advances research in power and energy systems, enabling studies on transmission lines, reactive power, compensation, grid tied converts and renewable energy integration using modern controllers and high end work stations.

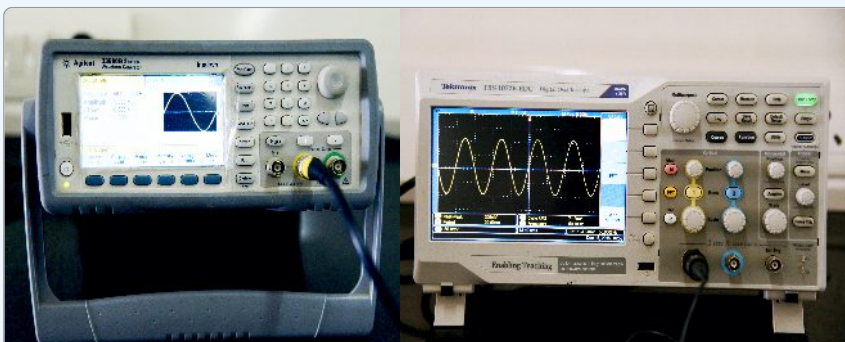
Microprocessor Laboratory

The lab provides hands-on experience in microprocessor and microcontroller architecture assembly language programming and peripheral interfacing strengthening students understanding of embedded systems and real world electronic applications.



Analog System & Digital Electronics Laboratory

This lab introduces students to the analysis and design of electronics circuits using analog integrated circuits, digital logic and discrete components through well equipped experimental work benches and standard electronic instruments.





Measurement & Instrumentation Laboratory

The lab offers practical exposure to sensors, transducer and measurement techniques, enabling accurate evaluation of electrical & physical parameters while emphasizing calibration accuracy & error analysis.

Electronic Laboratory

The Lab facilitates experiential learning by allowing any device to design and turbine circuits using a circuits & trainer kits supposed by instruments such as oscilloscope, signal generators and power supply.

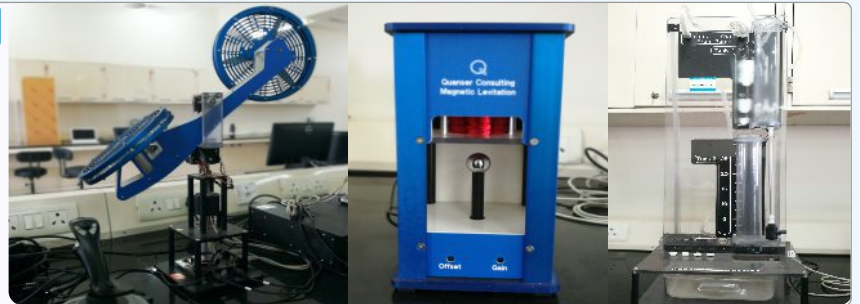


E- Yantra Laboratory

The lab is a Nodal center in Gujarat. By providing hands-on training and project based bearing modules.

Control Systems Laboratory

The course complements the Lab by strengthening theoretical concepts through real-world experiments. It develops students' skills in testing, evaluation, and use of industry-standard lab equipment and simulation software.



Communication Systems Laboratory

The lab offers hands-on exposure to analog and digital communication systems using tools like MATLAB, satellite communication trainers, and spectrum analyzers to study signal transmission and analysis.

Electrical Machines Laboratory

The lab offers practical training in testing and performance analysis of electrical machines and transformers using load test panels and advanced diagnostic tools.



DEPARTMENT OVERVIEW

MECHANICAL & AEROSPACE ENGINEERING



Programs offered



B.Tech.
Mechanical Engineering



M.Tech.
Industrial Infrastructure



Ph.D.
Mechanical & Aerospace
Engineering
(All Specializations)



Strengths

15 State-of-the-Art
Labs

17 Sponsored
Research
Projects

08 International
Conferences
organised



Students & Alumni

187 Students
Enrolled

423 Students
Graduated

13 Ph.D. Thesis
submitted/
awarded

MAJOR LABORATORIES



Advanced Refrigeration & Air Conditioning Laboratory

The lab is dedicated to HVAC and Cold Chain infrastructure to provide training to students and industrial personnel. Key facilities include a Computerized Air-Conditioning Simulator (with DX coil, chiller, air washer) and Cold Storage Simulator for precooling, storage, ripening, and ducting experiments.

Advanced Manufacturing Processes Laboratory

This lab is equipped with surface roughness meters, CNC turning machines, and a cryogenic machining facility for cutting edge manufacturing research.

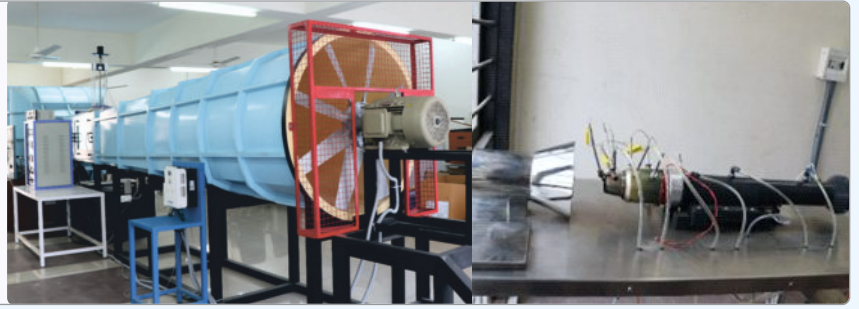


Aerial Robotics Laboratory

This lab focuses on the design, integration, and testing of UAVs and integrated systems. Students work on flight dynamics, control systems, navigation, swarm coordination, and autonomous aerial mission development.

Aerodynamics & Propulsion Laboratory

The lab offers hands-on research on fluid flow subsonic wind tunnel aerodynamic trainer and axial flow das turbine test rig.



Robotics and Industrial Automation Laboratory

The lab offers hands-on training in robotics and industrial automation through practical experiments and projects using modern tools and systems.

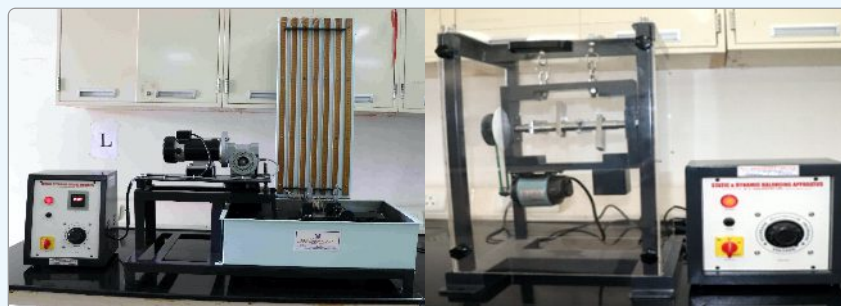
Fluid Machines Laboratory

This lab focuses on the performance and characteristics of pumps, turbines, and compressors. Students evaluate efficiency, head-discharge relations, and hydraulic performance parameters.



Material Science & Engineering Laboratory

This lab conducts research and analysis on material properties, equipped with polishing machine, metallurgical microscope, and induction furnace.



Dynamics and Vibration Laboratory

The lab is equipped with facilities for research in dynamics and vibrations, including epicyclic gear train apparatus and balancing machines.

Workshop

The workshop includes fitting, carpentry, welding, machine, and CNC shops, equipped with conventional and modern facilities. It features advanced tools such as TIG and MIG welding machines and tool cutter and grinding machines.



DEPARTMENT OVERVIEW

BASIC SCIENCES

The Department comprises of three disciplines: Mathematics, Chemistry, and Physics. The Department offers doctoral programs in all three disciplines.

MAJOR LABORATORIES



Chemistry Laboratory

The Chemistry lab is a required component of most chemistry courses. Learning lab procedures and performing experiments help students to learn techniques and reinforces textbook concepts.

Physics Laboratory

This Lab is designed in a way to include experiments of various areas of physics such as optics, thermodynamics, electricity and magnetism, mechanics, etc. The laboratory is equipped with state of the art instruments. Modern concept of computer controlled experiments is also introduced.



HUMANITIES AND SOCIAL SCIENCES

The Department of Humanities and Social Sciences (HSS) at IITRAM comprise of the disciplines of Economics, English Literature, Psychology, and Sociology. The Department offers doctoral programs in all four disciplines.

The HSS Department leads impactful research, including enhancing AYUSH product exports (Rs. 10 Lakhs), Jal Jeevan Mission & its health Outcomes (Rs. 9 Lakhs), Socio-Cultural reformation of Bhil Scheduled Tribes making India towards Viksit Bharat @ 2047 (Rs. 6 Lakhs), PM Fasal Bima Yojana Assessment (Rs. 10.89 Lakhs), and Naga Oral Heritage Documentation (Rs. 4 Lakhs), showcasing its commitment to multi disciplinary and nationally significant projects.

MAJOR LABORATORY



Language Laboratory

The language lab is equipped with a console, audio-visual technology, and specialized language learning software. This allows students to practice language skills interactively through digital tools like listening exercises, recording their speech, and interacting with virtual conversations.

CENTERS of EXCELLENCE (CoEs)



- ❖ **Advanced Defence Technologies**
- ❖ **SIEMENS**
- ❖ **Drone Technology**
- ❖ **Artificial Intelligence and Machine Learning**
- ❖ **Aerospace and Defence**
- ❖ **Smart, Sustainable and Disaster Resilient Infrastructure**

CoE OVERVIEW

CENTER FOR ADVANCED DEFENCE TECHNOLOGIES (CADT)

Coordinator: Dr. PL. Ramkumar	Co-coordinator: Dr. Kamlesh Joshi
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CORE OBJECTIVES



Defence Research & Innovation



Skill Development



Industry Support



Outreach Programs



Academic Courses

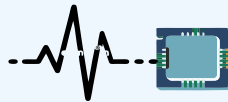
RESEARCH FOCUS AREA



Autonomous Vehicle



UAV/UUV Protocols



Signal & Biomedical



Defence Materials

ONGOING PROJECTS

- UAV swarms Control
- AI & IoT Health Tool
- Metallic foam Composites
- Nano Composites Research

LABORATORIES



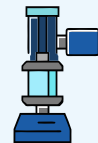
Autonomous Vehicle Lab



Navigation of Aerial Lab



Signal & Sensor Lab



Materials Testing Lab

PARTNERSHIPS & MoUs



Defence and Aerospace



CoE OVERVIEW

SIEMENS

Coordinator: Dr. Bhingole Pramod | **Co-coordinator:** Dr. Priyesh Chauhan

Bridging the gap between industry and Academia. A collaborative initiative between SIEMENS industry software, Design Tech Systems, Gujarat Industries Commissionerate and IITRAM aimed at skill development, research and advanced manufacturing technologies.

OBJECTIVES

- Improve the availability of human resources in the domain of Manufacturing Technologies.
- Assist Manufacturing industries/organizations in teaching, learning, and research on Advanced Manufacturing Technologies.
- Organize outreach activities like short-term courses, workshops, seminars, etc. in the domain of Manufacturing Technologies.
- Offer elective courses, certificate, minor, and major degree programs at UG and PG level in the areas related to Manufacturing.

WORKSHOPS/SEMINARS

- Siemens has organized training programs for enrolled students, with a total participation of 815 students. (in first 3 years only).
- Workshops on Siemens NX and Siemens Automation have been conducted, with a total of 150 participants.
- Seminars on Industrial Automation and Mechatronics have been held, attracting a total of 200 participants.
- A student exchange program of IITRAM students and under this 10 students visited the Siemens plant in Bangalore.
- It has facilitated internship opportunities for IITRAM students, placing 20 students in various Siemens.

ACTIVITIES

- Students of Manufacturing Department of CIPET Visited Siemens Center of Excellence at IITRAM on 20 Dec., 2022.
- Prof. V. Vitry, at UMONS, Belgium, Invited Talk on "Cemented Carbides – The Importance of Ball Milling Parameters" at IITRAM. The event was jointly organized by IITRAM's Mechanical and Aerospace Engineering Department, ASM International Gujarat Chapter, and Siemens on 10 Apr., 2023.
- ASM International Gujarat Chapter, in collaboration with

Siemens at IITRAM, Ahmedabad, recently organized a highly successful Workshop on Metallography and Microstructure. The event, held on the 23 of September 2023.

- Workshop on "Advanced 3D Casting Design and Simulation Techniques". Hosted by Siemens, IITRAM, in joint association with the Institute of Indian Foundry men -IIFA Ahmedabad Chapter, Dated 17 Feb 2024.

ACHIEVEMENTS



4 Research Papers
published from 24-25



12
Granted patents



CoE OVERVIEW

DRONE TECHNOLOGY

Coordinator: Dr. Abhishek Rawat | **Co-coordinator:** Dr. Ajit Kumar

The Center of Excellence (CoE) - Drone Technology at IITRAM Ahmedabad is built to support cutting-edge research and education in the advancement and application of Unmanned Technology of Drones. The center includes work spaces with basic infrastructure for small drone fabrication, system integration, and field tests. It also provides a platform for industry experts, professionals, and researchers in drone technology to share their knowledge on design, innovations, utilization, research, and applications.

OBJECTIVES

- State-of-the-art infrastructure for drone design, assembly, testing and validation.
- Research & innovation in high altitude drones, swarm drones, autonomous navigation technologies etc.
- Hands-on training programs for students faculty and industry professionals.
- Support for students projects, start ups and industry collaborations in drone technology.



MAJOR EQUIPMENTS



ONGOING RESEARCH PROJECTS

- Data-Driven Aerodynamic Modeling and Control of UAVs
- Design & Analysis of Drone for High-Altitude Operations



CoE OVERVIEW

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Coordinator: Dr. Ashish Soni | **Co-coordinator:** Dr. Raghavendra Bhalerao

The Centre of AIML has been established at the Institute of Infrastructure, Technology, Research And Management (IITRAM), Ahmedabad, with the objective of creating a dedicated ecosystem for research, training, innovation, and skill development in the domain of AIML. CoE-AIML operates as a multi disciplinary platform integrating computer science, data engineering, neural networks, robotics, and predictive analytics, to address emerging challenges in automated decision-making and real-world AI applications.

OBJECTIVES

- AIML Modelling facility
- Research Projects in AIML
- Offer UG/PG level courses of AIML
- Organize Training, Workshops, Expert Sessions

COLLABORATIONS AND MoUs

- The MoU was signed between Oroscaan, Ahmedabad and CoE – AIML, IITRAM for jointly developing the AIML enabled assistive technology for dentists to automatically detect the varying range of deformities from x-ray images.
- Dr. Krupa has Collaborated with GETCO and Industry for her research project entitled “Machine learning based Differential Protection of the transformer using Edge Cloud Computing”.

HPC SPECIFICATION

- **Server Node:** 128-Core CPU (2.45 GHz), 128 GB RAM, 2x1.5 TB SSD (OS), 4x3.5 TB SSD, 2x20 TB HDD.
- **GPU Node:** 4x NVIDIA A100 80GB GPU (NVLink), 64-Core, 512 GB RAM, 2x480 GB SSD.
- **Networking:** NVIDIA QM8700 InfiniBand Switch, 40 Ports, 200 Gbps.

KEY FACILITIES

- The High Performance Computing (HPC) facility
- AI Workstation facility
- Data Analytics laboratory
- Android device, Sensors, Smart Traffic Camera

EXPERT TALKS AND WORKSHOPS

- Expert talk was conducted on Edge Intelligence based Generative AI by Dr. Debasis Das, Asso. Prof., Dept. of Computer Sci. & Engg, IIT Jodhpur (February, 2024).
- CoE-AIML in association with IEEE Computational Intelligence Society Gujarat Chapter and the IEEE Gujarat Section Jt. Chapter of IE-IA-PEL Societies organized the following expert talks (February, 2023).
 - “AI and Deep Learning in Industrial Automation”, Speaker: Dr. Priyanka Sharma, Vice President Projects – Artificial Intelligence, Samyak Infotech Pvt. Ltd.
 - “Deep learning approaches for Atmospheric Corrections”, Speaker: Prof Mehul Raval, Associate Dean - Experiential Learning and Professor at the Ahmedabad University.



CoE OVERVIEW

AEROSPACE AND DEFENCE

Coordinator: Dr. Sumit Tripathi | **Co-coordinator:** Dr. Mithilesh Dikshit

Center of Excellence in Aerospace and Defense (CoEA&D) is a specialized initiative dedicated to advancing innovation, research, and education within the aerospace and defense sectors. CoEA&D stands as a commendable initiative dedicated to bridging the gap between academia and the aerospace/defence industry.

OBJECTIVES

- To develop cutting edge facilities, promote research and innovation via active participation of students, academia, and industry within the domain of aerospace and defence.
- To organize outreach activities, including student internships, certificate training programs, short-term courses, workshops, seminars, etc. In aerospace and defense sectors.
- To provide elective courses, certificates, minors/ major degree programs at both UG/PG levels.

ACTIVITIES

- Research & Consultancy
- Training Program
- Workshops
- Seminars
- Students Internship
- Student Exchange Program

LABORATORIES AND EQUIPMENTS

- Aerial Robotics Laboratory, Aerodynamics and Propulsion Laboratory and High Speed Computational Laboratory
- Various UAVs, Flight Controllers, Indoor and Outdoor testing facilities
- High-end Workstations/ Servers, Pulsating Heat Pipe
- Gas Turbine Test Rig, Subsonic Wind Tunnel and Aerodynamics Trainer
- CMOS Camera, Smoke Generator, Wire Arc Additive Manufacturing Machine
- Pitot Tube with mountings, Digital Multi-Tube Manometer, Six component balance and PPE kits



7th CONVOCATION HIGHLIGHTS

CONVOCATION



88 B.Tech. Graduates



2 M.Tech. Graduates



14 Doctoral Graduates

B.Tech. Degrees with Honour



04
Civil



07
Electrical



10
Mechanical

B.Tech. Degrees with Minors



04
Civil



05
Electrical



05
Mechanical

Awards to Meritorious Students



03
Gold Medals



03
Silver Medals

Chairman's Medal

Highest CPI among all Specializations

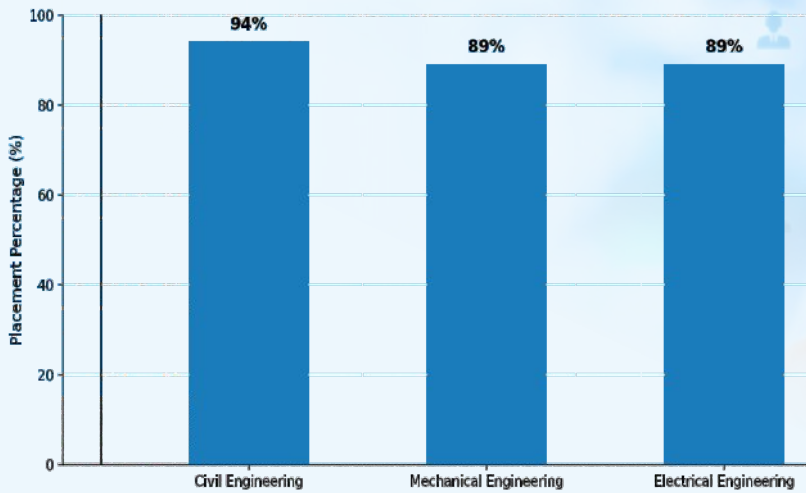


Akarsh Patel
(Civil Engineering)



CAREER DEVELOPMENT CELL

Branch-wise Placement Performance - 2025



91%
Overall Placement

₹45 LPA
Highest Package

₹6 LPA
Average Package

TOP RECRUITERS

 TATA TATA CONSULTING ENGINEERS LIMITED		 Cognizant	
		 Foundation for the Future	
	 Your Trusted Outsourcing Partner	 IMEG Engineering Pvt. Ltd.	
	 An Arrow Company		

RESEARCH & DEVELOPMENT @ IITRAM



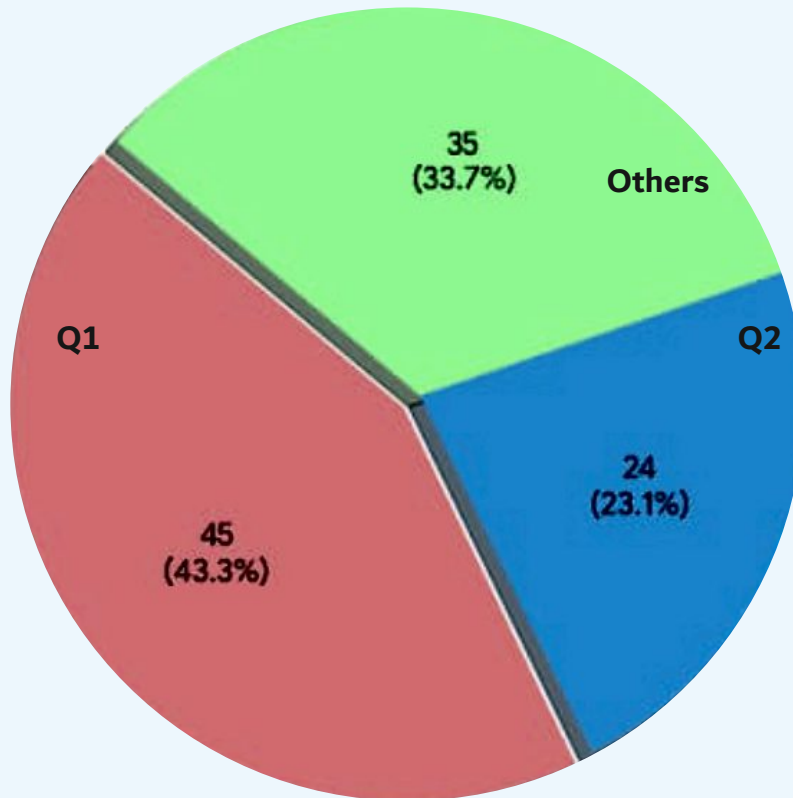
PROJECTS SANCTIONED DURING 2024 - 25

No.	Project title	PI & Co-PI	Sponsoring Institute
1	Developing an Alternative Access to Cultural Heritage: A Digital Archive of Naga Oral Heritage (Rs. 4.40 Lakhs)	PI - Dr. I Watitula Longkumer, Assistant Professor, Department of Humanities & Social Sciences	Indian Institute of Technology Indore
2	Enhancing Export Potential of Ayush Products for Global Well-being: Strategies and Opportunities in Gujarat, Maharashtra and Karnataka' under the special call for Vision Viksit Bharat@2047 (VVB@2047) (Rs. 10.75 Lakhs)	PI - Dr. Pravin Jadhav, Assistant Professor, Department of Humanities & Social Sciences	Indian Council of Social Science Research- ICSSR
3	Collaborative Empirical Research Project on Jal Jeevan Mission (2024-25) titled 'Evaluating Health Impact from Enhanced Water Quality under Jal Jeevan Mission (JJM): A Comparative Analysis in Selected Districts of Gujarat' (Rs. 9 Lakhs)	PI - Dr. Shukkoor T, Assistant Professor, Department of Humanities & Social Sciences	Indian Council of Social Science Research- ICSSR
4	Sustainable Agriculture in Gujarat's Tribal Regions: Formulating Bio-Based Emulsions with Tailored Rheology Using Clay Particles (Rs. 10 Lakhs)	PI - Dr. Sumit Tripathi, Assistant Professor, Department of Mechanical & Aerospace Engineering	IIT Palakkad Technology IHub Foundation (IPTIF) under Unified Youth Advancement in Research and Entrepreneurship (UYARE 2.0) scheme with project Ref No: IPTIF/UYARE 2.0/SEP071.
5	Development of Automated Software Platform for In Solare Process Optimization Using Image Processing and Machine Learning (Rs. 11.36 Lakhs)	PI - Dr. Ramnarayan Yadav, Assistant Professor, Department of Electrical & Computer Science Engineering Co-PI - Dr. Prasun Chandra Tripathi, Assistant Professor, Department of Electrical & Computer Science Engineering	

PUBLICATIONS

Total Publication (August 2024 - July 2025)

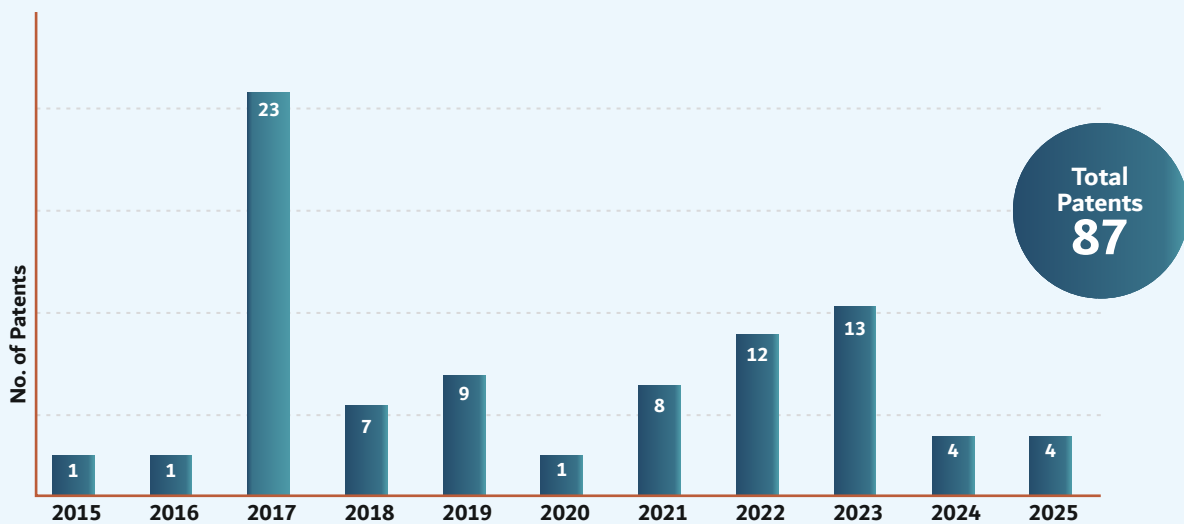
Total: 104



Q1 (Quartile 1) and Q2 (Quartile 2) refer to the top-tier rankings of academic journals based on impact factor or citations within a specific field.

Q1 represents the top 25% (highest impact), and Q2 represents the 25%–50% range (strong/competitive).

PATENTS GRANTED



LIBRARY RESOURCE CENTER

The Library Resource Center continues to expand its collection of print and digital resources, enhancing user-centric services to support teaching, learning and research activities.



ONOS

One Nation One Subscription

One Nation One Subscription (ONOS) is a Government of India initiative designed to provide nationwide access to scholarly journals and research databases for students, researchers, and faculty through a single unified subscription.

Automated & RFID Enable



Fully automated with **SOUL 3.0** integrated Library Management software and integrated **RFID Technology**, Smart Card, Auto check in and check out Systems etc.

Total Holdings (as on March 31, 2025)



7,664
Print Books



40+ Print
Magazines &
News Papers



180
Theses



401
Cds



13000+ eJournals
Peer reviewed full
text online
journals & magazines



8000+
eBooks of Springer
Wiley, Elsevier



265
Classic Movies
DVDs

Facilities Offered



3,041
Documents
issued
in 2024-25



1453
Documents Checked
for Plagiarism through
turnitin

Membership

700+
Students and Faculty members
provided with Membership of
National Digital Library



OUTREACH & ALUMNI AFFAIRS

MoUs

CONFERENCES/SEMINARS/WORKSHOPS

Prof. Eknath Ghate, a distinguished Mathematician from the Tata Institute of Fundamental Research (TIFR), Mumbai, delivered an invited talk on the topic “**The Iwahori mod-p Local Langlands Correspondence**” on 30.08.2024.



A guest session on “**Campus to Corporate**” by Mr. Dhananjay Mori, AGM – HR & IR at PSP Projects Limited was held on 04.09.2024. The talk provided our students with essential insights into transitioning smoothly from campus life to the corporate world, covering key skills, workplace expectations, and professional etiquette.



The 2nd International Conference on **Innovation in Infrastructure (ICIIF 2024)** was organized at IITRAM. The 3-day event, held from 15.11.2024 to 17.11.2024, witnessed enthusiastic participation from researchers, industry leaders, and academicians from across the globe.



The Centre of Excellence in Drone Technology, IITRAM Ahmedabad organized a Short-Term Training Program on the topic “**Basics of Drone Design, Navigation and Regulations**” from 18.11.2024 to 22.11.2024.



Department of Civil Engineering, IITRAM conducted a 5-day STTP of Gujarat Urban Development Institute (GUDI), Government of Gujarat for Practicing Engineers of various municipal corporations across Gujarat on ‘**Road and Bridge Infrastructure**’ from 18.11.2024 to 22.11.2024.



The Department of Humanities and Social Sciences organized a One-Day International Conference titled **AYUSHGLOBE 2025 – AYUSH for Global Well-being and Exports from India** on January 31, 2025, as part of the Vision Viksit Bharat @2047 initiative. The conference was sponsored by the Indian Council of Social Science Research.



Industry–Academia Conclave with AEMA

An Industry–Academia Conclave was jointly organized with the Ahmedabad Engineering Manufacturers' Association (AEMA) on 31.07.2025 to strengthen and foster long-term collaboration between industry and academia.

The IEEE AP/MTT Joint Chapter, Gujarat Section, in collaboration with Center of Excellence in Drone Technology and the Department of Electrical and Computer Science Engineering IITRAM organized a joint workshop on “**System and Technologies for Space Ecosystem**” on 03.03.2025 at IITRAM. The workshop helps experts, academicians, researchers, and industry professionals to discuss the latest advancements in space technologies and related fields.



The Department of Mechanical and Aerospace Engineering, in collaboration with CSST IIT Roorkee and the Department of Mechanical Engineering at SVNIT Surat, organized the 5th International Conference on **Recent Advances in Mechanical Infrastructure (ICRAM 2025)** from 10.01.2025 to 12.01.2025. The conference witnessed prominent figures from the academic and research community.



The Mathematical Association of IITRAM conducted an engaging training-cum-fun session with Class 9 students of Pragati School on 03.12.2024, where students participated

in interactive problem-solving activities and exciting mathematical puzzles. The session aimed to make learning enjoyable while fostering curiosity and a love for mathematics in young minds.

Female Health, Mental Well-being & Disease Prevention

The Women Development Cell at IITRAM organized a talk on “Female Health: Physical, Mental, and Nutritional Aspects & Prevention of Non-Communicable Diseases (NCDs) in Adolescent Girls.” by Dr. Dhruvi Hasnani, a Consultant Diabetologist and Head of Clinical Research at the Rudraksha.



Gender Sensitization

The Internal Complaints Committee (ICC) at IITRAM organized a talk on Gender Sensitization on 12.03.2025, by Ms. Amrita Patel, a prominent lawyer. The event also served as a platform for women doctoral scholars at IITRAM to share their research journeys, shedding light on their experiences and contributions.



A week long program on “Skill Enhancement for Lab Assistants: Advanced Laboratory Techniques and Safety Practices” conducted by the Department of Mechanical and Aerospace Engineering, IITRAM was held from 15.07.2024 to 20.07.2024

KNOW ABOUT IITRAM

Know your Alumni

In its continuing series, the Alumni Cell organized Know your Alumni on 21.09.2024. Mr. Neel Panchal an undergraduate alumnus from the Department of Mechanical Engineering and the Founder and CEO at Pratham Youth Community interacted with the current students of IITRAM and shared his inspiring journey.

Visit by School Students

As part of institute's outreach activities, high school students of Pragati School, Maninagar visited IITRAM on 08.12.2024. During their visit, the students had the opportunity to learn Mathematics under "Project-based learning" with an expert talk on Fractal Geometry.



Lab Visit

A students from MIT Pune visited IITRAM on 04.03.2025 to explore the institute's advanced laboratories and research facilities. The visit included interactive demonstrations, and discussions and providing the students with valuable insights into research and technological advancements.



Science Quiz 2025

The Department of Basic Sciences organized a **Science Quiz** on 01.06.2025 for students of Class 11 and 12 focussing on Physics, Chemistry, and Mathematics.



AWARDS & RECOGNITION

Dr. Navneet Khanna, Associate Professor in the Department of Mechanical and Aerospace Engineering and **Dr. Manish Sharma**, Associate Professor in the Department of Electrical and Computer Science Engineering are honored among the Top 2% researchers worldwide for the year 2023, as per a study conducted by Stanford University and Elsevier.

Dr. Manish Sharma, Associate Professor, Department of Electrical and Computer Science Engineering, was selected among the Highly Ranked Scholar- Prior Five Years in the specialities of Wavelet, Wavelet Transform, Electroencephalography by Scholar GPS.

Dr. Sumit Tripathi, Assistant Professor, Mechanical and Aerospace Engineering, selected as a “Support Grant Winner” to participate in the 26th International Congress of Theoretical and Applied Mechanics (ICTAM 2024) hosted by IUTAM and organized by KSME and KCTAM during 25-30.08.2024, in Daegu, South Korea. He presented his work in conference and interacted with experts in the fields of Theoretical and Applied Mechanics.

Dr. Raghavendra Bhalerao, **Dr. Krupa Shah**, Assistant Professors, Department of Electrical and Computer Science Engineering, along with team members **Dr. Abhijeet Salunke** (Surgeon GCRI), **Dr. Nandlal Bharwani** (Fellow Surgeon GCRI), **Mr. Kaushal Panchaal** (Autus Healthcare) received Innovation Award for Bone Biopsy Innovation as part of the Zydus CSR Innovation Programme 2024-25, powered by Zydus Group and collaboration with the Gujarat Grassroots Innovation Augmentation Network (GIAN) held on 11.03.2025.

Dr. Krupa Shah, Assistant Professor Discipline of Electrical and Computer Science Engineering, was invited to receive the award for the 10th Venus International Women Awards (VIWA 2025) in the category of Outstanding Woman Researcher (OWR) in Electrical Machines on 01.03.2025.

Development of new Apps for Mess Management and Health Management, streamlining campus services created and introduced by students **Manish Kumar**, **Hemanshu Tala** and **Satyam Kumar** on 05.10.2024.

IITRAM Kabaddi Team emerged victorious in the IIM Ahmedabad Inter Sports Tournament – SHAURYA held from 21.11.2024 to 24.11.2024.



Madhan Tirri, **Rudra Pratap Singh**, **Sohil Sheik**, B.Tech. 1st Year Department of Electrical and Computer Science Engg and **Vivek Sri Sai Chinthakayala** B.Tech. 1st Year Department of Civil Engineering secured the runner-up position in the Best Mechanism category at Blix-A-Thon, IIT Bombay TechFest (Blix ID: 230444) held from 17.12.2024 to 19.12.2024.

Nikita Joshi, Doctoral Scholar, Department of Electrical and Computer Science Engineering, received the PROM Program at Lodz University of Technology, Poland. During her program, Nikita will be working on advancing her research on Fault-tolerant Discrete-time Sliding Mode Control (DSMC) for Multi-Agent Systems (MAS), with a focus on Cyber Security Resilience.

A. Sandeep Reddy, Doctoral Scholar, Department of Civil Engineering, received the Doctoral Research Award at iGrip-2025 conclave held at IIT Gandhinagar during 24.02.2025 and 25.02.2025.



Four Doctoral students were awarded the SHODH fellowship by the Education Department, GoG: **Chaudhari Mitulkumar V., Rana Dhruvrajsinh M.** Department of Humanities and Social Sciences, **Amarjeet S. Pandey** Department of Electrical and Computer Science Engineering, and **Tank Shitalben V.** Department of Basic Sciences.



Pranjal Mewada, B.Tech. second year, secured Gold Medal in Taekwondo at the District Khel Mahakumbh.

Udaykumar Dhokia, B.Tech. third year, and his team secured First Place in the Web Tech Hackathon at Footprints 25, organized by MSU Vadodara held on 07.03.2025 to 09.03.2025.

Ambre Prathamesh P., B.Tech. alumna Department of Civil Engineering was awarded the GICEA Gold Medal 2025 for excellence in academic performance.

Bhatt Prutha H. M.Tech. alumna Department of Civil Engineering with specialization in Urban Infrastructure was awarded the RJD Buildcon Ltd GICEA Gold Medal 2025 for excellence in academic performance.



Nimish Soneji, Keval Dafda, Dhruv Parikh, Tushar Thakor, B.Tech. students, secured 3rd Position in Anveshana: A National Level Hackathon (36hrs), organized by Atmiya University on 10.09.2024 and 11.09.2024.

Anveshana-A National Level Hackathon

Nimish Soneji, Keval Dafda, Dhruv Parikh, Tushar Thakor, B.Tech. students, secured 3rd Position in Anveshana: A National Level Hackathon (36hrs), organized by Atmiya University on 10.09.2024 and 11.09.2024.



STUDENTS ACTIVITIES

Foundation Programme 1st Year B.Tech: Sammilan 2024
Sammilan 2024, the Foundation Programme for First Year B.Tech was held during 16.08.2024 to 19.08.2024. Various activities like to help incoming students adjust to college life, A rocketry workshop, An ice-breaking session, NSS talk session was conducted.



Sport Activities

The Student Activity Center (SAC) IITRAM organized a series of sports events, including a Tug of War, the Intra Volleyball Tournament, and the Intra Cricket Tournament. The events fostered sportsmanship, teamwork, and a spirit of healthy competition among participants.



IITRAM students actively participated in Inter-Institute Sports Tournaments. The students participated in Cricket, Volleyball, Football, Chess, Table Tennis, Girls' Volleyball and Badminton in Conkurs 2024, held at DAIICT Gandhinagar from 06.11.2024 to 11.11.2024. They also showcased their talent at the IIM Ahmedabad Sports Tournament 2024, held from 21.11.2024 to 24.11.2024, competing in Kabaddi and Volleyball against athletes from premier institutes.

The **Smart India Hackathon (SIH) 2025** was held from 05.09.2025 to 07.09.2025. The event brought together innovative minds to solve real-world problems through technology and creativity.

The **TechLens Club** organized photography competition on 19.08.2025. Participants showcased their photography skills by capturing unique perspectives and moments that reflected artistry and imagination.

Awareness Program on Depression & Suicide Prevention

The Counseling Center organized an awareness program to observe the World Suicide Prevention Day on 12.09.2024. Mrs. Hima Anareddy, Student Counselor, IIT Bombay, was delivered a lecture.



Cultural Fest 'Echoes'

IITRAM hosted its annual Cultural Fest "Echoes" from 13.09.2024 to 15.09.2024. The three-day extravaganza was a vibrant celebration of creativity, talent, and cultural diversity, bringing the students together.



Tobacco Free youth campaign 2.0

IITRAM and Ahmedabad Municipal Corporation AMC Officer from the Health Department organized the Tobacco-Free Youth campaign on 27.09.2024. Students of IITRAM participated in the event.

Anti-Ragging Week

The Counselling Center IITRAM observed Anti-Ragging

week from 12.08.2024 to 17.08.2024 emphasizing on the importance of creating a safe and respectful environment on campus.



Prevention of Tobacco, Alcohol, and Substance Use” on 29.01.2025 to educate students about the risks associated with substance abuse and equip them with strategies for prevention. The session aimed to raise awareness, debunk myths, & provide practical solutions to avoid addiction.

Emotional Space Open Discussion on Mental Health Day

The Counseling Center and the Student Activity Center (SAC), organized a session on Mental Health Day on 11.10.2024. The event provided a safe space for students to openly share their emotions and experiences, fostering a sense of relief and support. Participants engaged in discussions on coping strategies, emphasizing the importance of mental well-being in a supportive community.

Training workshop on High Energy Work and Positive Life

Dr. Meena Shah, Health & Life Coach, CEO of Medico-Media & Founder- Director of Namaste Life Healthcare Foundation and Mrs. Pragna Shah, Yoga and Nutrition specialist conducted a training workshop for IITRAM staff on 10.10.2024. The session focused on enhancing workplace efficiency, energy, and vitality while promoting self-awareness, positivity, and motivation.



SOCIAL EVENTS@IITRAM

Student Activity Center (SAC) organized various social events including Swachhata Hi Seva from 30.09.2024 to 02.10.2024 at the institute premises. In line with the event, a cleanliness drive was held on 02.10.2024.



Prayaas 4.0, a Cloth Donation drive, was organized on 07.12.2024. The initiative aimed to bring warmth and comfort to those in need by collecting and distributing gently used clothing to underprivileged communities.

Cyber Security Awareness Program

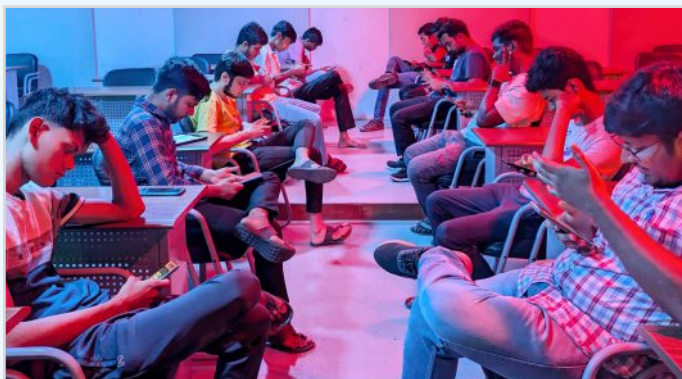
The National Service Scheme (NSS) IITRAM, in collaboration with the Student Activity Centre (SAC) organized a Cyber Security Awareness Program during 16.11.2024 and 17.11.2024. The initiative aimed to educate participants about the growing importance of cyber security and featured expert-led sessions.



The Student Activity Centre (SAC) organized E-Sports Tournament from 13.10.2024 to 18.10.2024. The event brought together gaming enthusiasts to showcase their skills in some of the most popular competitive games, including Clash Royale, BGMI, Free Fire, and Valorant.

A role-play event on Startup Funding was organized on 22.10.2024 to explore different types of funding essential

for entrepreneurs. The event allowed participants to engage in a simulated funding process where an entrepreneur sought investments from a group of angel investors, followed by venture capitalists.



The Economics Club organized an insightful session on Economic Indicators on 19.11.2024 aimed at enhancing students' understanding of the critical metrics that drive economies worldwide.

A technical event on IoT Challenge was held on 16.10.2024 inviting participants to develop innovative solutions using Internet of Things (IoT) technology. The Coding Club IITRAM organized Hack Genesis 24, a Hackathon event from 08.11.2024 to 10.11.2024. The event encouraged participants to think outside the box, experiment with new ideas, and develop functional prototypes or applications.



The Student Activity Cell (SAC) organized **Garba Festival** on 07.10.2024 and 08.10.2024 for the students, faculty, and staff of IITRAM. The two-day celebration was held to commemorate the festive spirit of Navratri on campus.

A photography editing workshop was conducted by Mr. C.P. Joglekar, Registrar IITRAM, on 21.11.2024. The event provided a platform for participants to learn advanced editing techniques.

A musical event was held at IITRAM on 16.10.2024. The events which includes poetry, musical performances and dance brought together performances by faculty members, students and staff of the institute.



Institute celebrated International Men's Day on 19.11.2024, recognizing contributions of men in the society. The event emphasized gender equality, mental health awareness, and holistic development. Dr. Akshat Gupta, an advocate for men's well-being, delivered a keynote on mental health, societal expectations, and achieving a balanced society.

Institute commemorated Veer Baal Diwas on 26.12.2024. The event featured debate, poetry, and essay competitions, encouraging students to reflect on the values of courage and righteousness.

IITRAM hosted **Atal Kavyotsav**, a poem reciting competition on 11.02.2025 providing a platform for poetry enthusiasts to showcase their talent and express powerful ideas.

The Counseling Center IITRAM in collaboration with Medical Center IITRAM conducted an informative and interactive session on **"Understanding Addiction - Prevention of Tobacco, Alcohol, and Substance Use"** on 29.01.2025 to educate students about the risks associated with substance abuse and equip them with strategies for prevention.

An interactive panel discussion on **Economic Trends 2025** was held on 30.01.2025. The event brought together enthusiasts to explore key factors shaping the Indian economy by fostering insightful conversations, allowing panelists to share diverse perspectives, experiences, and solutions related to the topics influencing India's economic framework.

The annual technical fest **FLUX'25** was held from 21.03.2025 to 23.03.2025. The fest was a hub of innovation, problem-solving, and creativity, bringing together tech enthusiasts from various institutions.



IITRAM hosted **Cultural Week** on 15.02.2025 and 16.02.2025, transforming the campus into a lively hub of creativity and celebration. Event featured a variety of engaging activities, including games, food stalls, and art exhibits all enthusiastically organized and run by students.



Sports events @IITRAM

IITRAM organized Annual Sports Fest, **Pratyancha'25**, from 17.01.2025 to 19.01.2025, at the Veer Savarkar Sports Complex. The event brought students together for an action-packed celebration of athleticism, teamwork, and sportsmanship. Competitions were held in football, table tennis, and badminton.

A friendly Football match was held between IITRAM and the National Forensic Sciences University (NFSU) on 30.03.2025.

The NSS Cell at IITRAM organized a **Civic Awareness campaign** on 05.04.2025 at Kankaria Lakefront, Ahmedabad. During the event, volunteers engaged with visitors to spread awareness on topics such as health,

hygiene, water conservation, traffic rules, & road safety.



A farewell ceremony for the outgoing Batch of 2025 was held on 05.04.2025. The event featured a vibrant evening of performances, speeches, and memories shared by students.



IITRAM organized the **Intra-Kabaddi** Tournament from 10.04.2025 to 15.04.2025 at the Kabaddi Ground. Held daily from 6:00 PM to 9:00 PM, the event saw enthusiastic participation from students.



The Student Activity Centre (SAC) of IITRAM organized a **“Road Safety Awareness Campaign”** on 09.02.2025 to promote responsible commuting & adherence to traffic rules.



INSTITUTE EVENTS

Independence Day Celebration

IITRAM celebrated the 78th Independence Day on campus. The event was followed by Tree Plantation Drive “EK PED MAA K NAAM” organized by the Student Activity Cell in collaboration with NSS. A total of 50 saplings were planted after the flag hoisting ceremony.



Open House for MTech and PhD

IITRAM organized Open House for M.Tech and PhD aspirants on 08.07.2024 in both online and offline modes to appraise them of the various research opportunities offered by the institute. A special session on guidance to PG CET was also held.



Teachers' Day Celebration

The institute celebrated Teachers' Day on 5.09.2024. A series of programs and activities were organized by the students to acknowledge and honor the contributions of the faculty members.

Orientation Programme First Year B.Tech 2024

The Orientation Programme for the First Year B.Tech students was held on 14.08.2024. The event was attended by students along with their parents and guardians. The Deans and Heads of all Departments provided an overview of the institute, apprising the incoming students and their families about the academic structure, facilities, resources, and support services available.



SSIP 2.0 Sensitization Programme

SSIP Cell IITRAM organized the SSIP 2.0 Sensitization Programme for school students on 20.09.2024. Around 120 students of Pragati School located at Maninagar, Ahmedabad, participated and visited the laboratories and had interactions with faculty members of the institute.

Foundation Day Celebrations

IITRAM celebrated 11 years of inception on 16.10.2024, by acknowledging the years of dedicated & steadfast academic excellence and innovation on its 11th Foundation Day. Prof. B.N. Singh, Vice Chancellor of Rajiv Gandhi National Aviation University was the chief guest of the occasion.



IITRAM newly constructed **Girls' Hostel, Boys' Hostel, and E-1 Type Staff Quarters** was inaugurated by Shri Rushikesh Patel, Hon'ble Cabinet Minister, Government of Gujarat on 14th July 2025. Shri Mukesh Kumar, IAS, Principal Secretary, Education Department, Government of Gujarat, was the Guest of Honor.



Blood Donation Camp

The IMech Student Chapter at IITRAM in association with Indian Red Cross Society Ahmedabad District Branch held its 7th Blood Donation Camp on 12.02.2025 at IITRAM campus. The event witnessed enthusiastic participation, with nearly 60 donors, including both students and faculty members, contributing to this noble cause.



Yoga Day Celebration

International Yoga Day was celebrated on 21.06.2024 virtually to encourage our community to embrace the benefits of yoga and inspire each other to lead healthier lives.

Health Check-up Camp

A free medical check-up event with Narayana Hospital, Ahmedabad was organized on 09.09.2024 and 10.09.2024 to offer essential health screenings and consultations for the students and staff members of the Institute. A total of 36 Staff Members and 94 Students took part in the event.

International Labour Day

IITRAM observed **International Labour Day** on 01.05.2025 by acknowledging and actively appreciating the contributions of support staff through participation in tasks such as cleaning, watering plants, serving meals, and more.



START UP & INNOVATION @ IITRAM

Intelligent Bone Biopsy Device

Precision and Automation for Safer, More Accurate Bone Biopsy Procedures

Developed by Dr. Abhijeet Salunke, Dr. Krupa Shah, Dr. Raghavendra Bhalerao

* Students: Abhishek Sharma (Student) • Kumar Saurav (Student)

VERSION 1

Motorized Bone Biopsy Device



Core Features

- Powered drilling mechanism
- Single motor drive system
- Battery operated
- Hand-controlled ON OFF switch
- Manual positioning by surgeon
- No real-time lightweight design

Characteristics

- Simple mechanical design.
- Low-cost and easy to manufacture
- Fully surgeon-dependent operation
- No real-time feedback mechanism

Suitable For

- Basic orthopedic biopsy procedures
- Low-resource clinical settings
- Rural healthcare centers

VERSION 2

Controlled Penetration Bone Biopsy Device



Core Features

- **Includes all Version 1 features:**
- Motorized feed-forward motion
- Pre-set and controlled needle penetration depth
- Digital displacement diaplity
- Improved mechanical stability
- Semi-automated advancement

Characteristics

- Reduced risk of over-penetration
- Better procedural accuracy
- Improved operator control
- Partial automation

Suitable For

- Precision bone biopsies
- Low-resource clinical settings
- Training & demonstration purposes

VERSION 3

Intelligent Bone Biopsy Device



Core Features

- **Includes all Version 1 features:**
- ✓ Fixed Reference.
- ✓ Degree of freedom Stabilization
- ✓ Force sensor integration for monitoring applied pressure (Animorim)
- ✓ Embedded Autofeedback System
- ✓ Fully automated robotic system
- ✓ Manual and Teleroperated control
- ✓ Real-time feedback displayed
- ✓ Intenitie Biopsy Device system
- ✓ Hospitals and advanced diagnostics

Suitable For

- ✓ Fully automated robotic biopsy system
- ✓ Hospitals and advanced diagnostics
- ✓ Complex and challenging biopsies

START UP & INNOVATION @ IITRAM

IITRAM's Advance Material Lab Develops Lightweight Metallic Foam Composite for Defense & Aerospace



KEY RESEARCH OUTCOMES: PATENTED INNOVATIONS

GRANTED DESIGN PATENTS (11)

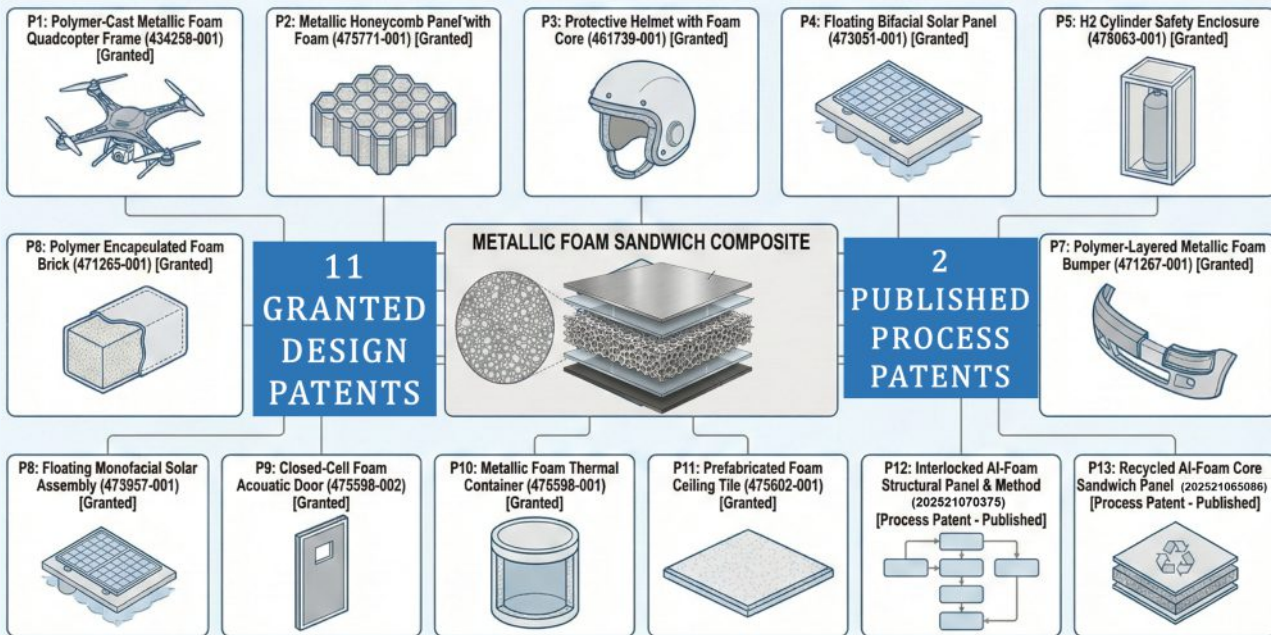
- ✈️ Polymer-Cast Metallic Foam Sandwiched Frame for Quadcopter (434256-001)
- 🍯 Metallic Honeycomb Panel Infilled with Closed-Cell Metallic Foam (457371-001)
- 🛡️ Protective Helmet with Polymer-Coated Metallic Foam Core (461739-001)
- ☀️ Floating Bifacial Solar Panel on Metallic Foam Platform (473951-001)
- 🚒 Metallic Foam Safety Enclosure for Hydrogen Gas Cylinder (475063-001)
- 🧱 Polymer Encapsulated Closed Cell Metallic Foam Brick (471265-001)
- 🚗 Polymer-Layered Metallic Foam Front Bumper (471267-001)
- ☀️ Floating Monofacial Solar Photovoltaic Assembly on Metallic Foam Platform (473957-001)
- 🚪 Closed-Cell Metallic Foam Acoustic Insulation Door (475590-002)
- 🚚 Metallic Foam Thermal Insulated Container (475598-001)
- 🏠 Prefabricated Metallic Foam Decorative Ceiling Tile (475602-001)

PROCESS PATENTS (UNDER EXAMINATION) (2)

- An Interlocked Aluminium Foam Based Structural Panel and Method (202521070375)
- Composite Sandwich Panel with Recycled Monolithic Aluminum Foam Core (202521065086)



ADVANCING NATIONAL DEFENSE CAPABILITIES THROUGH MATERIAL INNOVATION AT IITRAM



TEAM MEMBERS



Manan Haren Shah
PhD Scholar, IITRAM;
JRF- Advance Material Lab



Dr. Pramod Pandurang Bhingole
Associate Professor & Dean OAA,
IITRAM; Mentor



Dr. Dhaval Natvarial Makwana
PhD - IITRAM

Development of Novel Lightweight Metallic Foam Sandwich Composite



FINANCE COMMITTEE



Prof. Pramod Kumar Jain
Director General, IITRAM
Chairman (Ex-officio)



Shri Jenu Devan (IAS)
Secretary, Expenditure,
Finance Department
Government of Gujarat
Member (Ex-officio)



Shri Mukesh M Shah
Chartered Accountant
M/s. Mukesh M. Shah & Co.
Member



Dr. Yogesh Shah
I/C Registrar, IITRAM
(Ex-officio) Secretary



Dr. Sunil R. Parekh
SPoC Sustainability @ Zydus Group and
Strategic Advisor @ Jubilant Bhartia Group
Fellow ICA Arbitration
Member

BUILDING & WORKS COMMITTEE



Prof. Pramod Kumar Jain
Director General, IITRAM
Chairman (Ex-officio)



Mr. J J Siyani
Retd. Chief Engineer, R&B, GoG,
Ex.Member GPSC, Advisor-GTU



Ms. Riya Modi
Superintendent Engineer
Ahmedabad Circle (R and B)
Member, R&B Nominee (Ex-Officio)



Prof. Nagesh Iyer
Dean, Infrastructure Planning and Support,
IIT Dharwad



Mr. Milind Gokhale
Retd. Office of Dean-Infrastructure
Planning and Support,
IIT Bombay



Mr. Viranchi Shah
Retd. Deputy Architect,
R and B, GoG



Dr. Jiten Shah
Dean (IP&S)
Infrastructure Planning and Support
(Ex-Officio)



Dr. Yogesh Shah
I/C Registrar, IITRAM
(Ex-officio) Secretary

ACADEMIC COUNCIL



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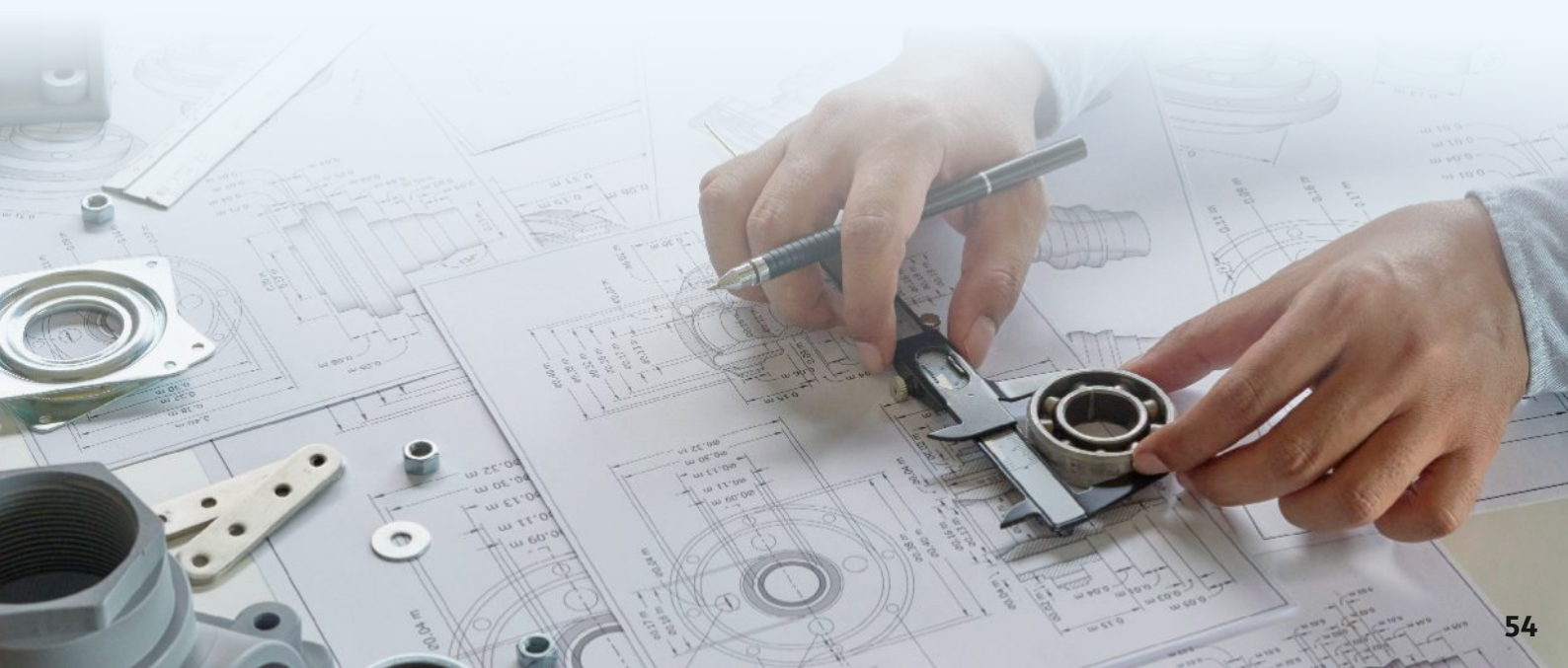
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MEDIA COVERAGE

Times of India 12/08/2024

CANCER SURVIVORS LEAD NORMAL LIVES WITH GCRI TEAM'S MYOELECTRIC ARMS

'Hands-on' idea lifts amputees' hopes

Parth Shastri @timesofindia.com

Ahmedabad: For Krishna (name changed), 20, a native of a north Gujarat district, life took a tragic turn three years ago when aggressive cancer on her forearm — soft tissue sarcoma — required her hand below the elbow to be amputated. "It was difficult to imagine life without a hand. I did try a prosthetic hand, but for someone with an acquired disability, it was hard to adjust," she says. But earlier this year, she got a 'brand-new hand'!

At Gujarat Cancer Research Institute (GCRI), Krishna was among the first batch of recipients of myoelectric hand prosthesis earlier this year. "I can lift daily objects with ease. It also feels and looks real," said the young girl who wants to be a teacher. Innovation of a joint team of Dr Abhijeet Salunke, orthopaedic oncologist at GCRI, Raghavendra Bhalerao from IITRAM, and Hardik Sharma, a prosthetics expert from Ahmedabad, the team fondly

HAND IN HAND WITH TECH



Dr Abhijeet Salunke

A 'handmade' story

- Integrated circuit (IC) for such prosthetics is made abroad and is uniform across products
- What increases the cost of such high-end prosthetics is its overall look and functionality
- The team in Ahmedabad worked with 3D models and different materials and factored in skin tones for a desirable aesthetic

How it works

After the measurements are taken, the experts first make models and fit the IC inside. The electric receptors are attached to the muscles

Through intensive training, patients learn to generate brain signals that are translated into electrical current, which in turn directs the movement of the hand

Based on muscle contraction at the base of the prosthetics, users can modify the grip strength and the pace of hand movement to hold objects such as a glass of water or a book

In Indian conditions, the IC can overheat. The frame of the prosthetics is prone to wear and tear if due care is not taken. It can even break if subjected to excessive weight

A tribal woman from Gujarat holds a water bottle using her prosthetic hand

calls it 'Ahmedabad Hand' on the lines of the famed Jaipur Foot for leg amputees. "Myoelectric derives its

name from myo (muscle) and the system where the impulse or current from muscles of the residual limb gets connected to electrodes placed over the skin.

"The prosthetic arm is attached to the limb and the patient is trained in how to operate the limb. The prosthesis is powered by a rechargeable battery," said Dr Salunke.

The need for such prosthetics is due to life-saving surgeries required on cancer patients that need amputation from below the elbow or from the shoulder. Dr Shashank Pandya, the director of GCRI, said that while there are prosthetics available at a high price, some attempts have been made in the past in the city, too.

"But the weight of the mechanism was one of the issues. The current innovation is much lighter for the users. A functional limb can transform the lives of patients any day," he said, adding that the patients are provided with the hands free of cost with the help of govt and NGOs.

जर्मनी में यंग वॉटर प्रोफेशनल्स प्रोग्राम में करेंगे भारत का प्रतिनिधित्व आइआइटी-राम के छात्रों को यूनिवर्सिटी चैलेंज इंडिया में मिला प्रथम स्थान

अहमदाबाद @ पत्रिका. इंस्टिट्यूट ऑफ इंफ्रास्ट्रक्चर, टेक्नोलॉजी, रिसर्च एंड मैनेजमेंट (आइआइटी-राम) अहमदाबाद के छात्रों ने यूनिवर्सिटी चैलेंज इंडिया स्पर्धा में प्रथम पुरस्कार जीता है। यह प्रतिस्पर्धी आईएफएटी इंडिया 2025 के दौरान हाल ही में मुंबई में हुई।



विजेता टीम में शामिल छात्र-छात्राएं।

भारत का प्रतिनिधित्व करेगी टीम : यह विजेता टीम जर्मनी के म्यूनिख में 4 से 7 मई 2026 तक आयोजित होने वाले 'यंग वॉटर प्रोफेशनल्स प्रोग्राम' में भारत का प्रतिनिधित्व करेगी। इस कार्यक्रम के लिए टीम को स्पॉन्सरिंग मिलेगी। स्थानान्तरण के बाद इस उपलब्धि पर पर कहां कि यह सफलता न केवल छात्रों की अकादमिक उत्कृष्टता और तकनीकी दक्षता को रेखांकित करती है, बल्कि वैश्विक मंच पर सतत अवसर-प्राप्त और पर्यावरण-नेतृत्व में भारत की उभरती भूमिका को भी सुदृढ़ करती है।

आइआइटी राम के संचालित इंजीनियरिंग तृतीय वर्ष के छात्र अजात कोलिकेय, अद्विका वर्मा और अद्विज आर्यन की टीम ने इसमें हिस्सा लिया। इन्होंने ने देश भर के सतत प्रमुख संस्थानों के प्रतिभागियों को पछाड़ते हुए स्पर्धा में पहला स्थान पाया। स्पर्धा को प्रेरित करना है।

16/1/2026 Gujarat Samachar

3 City Sports Thursday, 27 November, 2025

आइआइटी-राम में वॉलीबॉल टूर्नामेंट में बोय्स टीम ब्रो-कोड अने गर्ल्स टीम निजस येम्पियन बनी



भोपल स्थित इंस्टिट्यूट ऑफ इंफ्रास्ट्रक्चर, टेक्नोलॉजी, रिसर्च एंड मैनेजमेंट (आइआइटी-राम) में आयोजित 'आइआइटी-राम' में आयोजित कराया गया। वॉलीबॉल टूर्नामेंट में बोय्स डिवीजन में 10 टीम अने गर्ल्स चार टीम शामिल थी। बोय्स डिवीजन में ब्रो-कोड अने सुकुल स्पोर्ट्स क्लब रमाई थी, जेम्स ब्रो-कोड की टीम 2-0 थी विजेता बंधी। गर्ल्स में टीम निजस अने रेट पॉय क्लब रमाई थी, जेम्स टीम निजस 2-0 थी विजेता बंधी।

IITRAM में ICFAMMT-2026 योजशे

भोपल विस्तार में आवेली इंस्टिट्यूट ऑफ इंफ्रास्ट्रक्चर, टेक्नोलॉजी, रिसर्च एंड मैनेजमेंट (आइआइटी-राम) में मिटेनिकल डिपार्टमेंट में आजथी त्रि-दिवसीय 'इंफ्रामिटिक्स एंड वॉटर प्रोफेशनल्स' में आयोजित कराया गया। वॉलीबॉल टूर्नामेंट में बोय्स डिवीजन में 10 टीम अने गर्ल्स चार टीम शामिल थी। बोय्स डिवीजन में ब्रो-कोड अने सुकुल स्पोर्ट्स क्लब रमाई थी, जेम्स ब्रो-कोड की टीम 2-0 थी विजेता बंधी। गर्ल्स में टीम निजस अने रेट पॉय क्लब रमाई थी, जेम्स टीम निजस 2-0 थी विजेता बंधी।

Ahmedabad Mirror 06/12/2024

GSIRF rankings: Four universities get 5+ rating

Ahmedabad: The rankings for 2023-24 under the Gujarat State Institutional Ranking Framework (GSIRF) were announced on Thursday in Gandhinagar. The top 16 institutes were felicitated by state higher and technical education minister Rushikesh Patel, along with senior education department officials. In total, 565 educational institutes participated in the exercise aimed at preparing the institutes for the National Institutional Ranking Framework (NIRF) procedure. The rankings were not released earlier due to the Lok Sabha election, said sources. Thus, the rankings, when the academic year is half over, might not be useful for students or parents but may serve as a continuation of the overall exercise.

University	CGPA	Rating
Gujarat University	4.82	5+
PDEU	4.74	5+
Nirma University	4.68	5+
CEPT	4.51	5+
A'bad University	4.39	5
CHARUSAT	4.18	5
IITRAM	4.13	5
Navsari agri varsity	4.12	5
DAICT University	4.06	5
GTU	4.06	5
Ganpat University	4.02	5
Junagadh agri varsity	4.01	5
IIPH-G University	4	5

research category, IIPH-G got the highest rank, whereas in the medical and engineering categories, GMERS College Vadodra and LD College of Engineering got the highest rank. PD Patel Institute of Applied Sciences received the highest ranking among colleges.

Four universities — Gujarat University, Pandit Deendayal Energy University (PDEU), Nirma University and Cept University — received a five-star plus rating, whereas 13 universities received a five-star rating in the exercise by the Knowledge Consortium of Gujarat (KCG) and the Indian Centre for Academic Rankings & Excellence (ICARE). In the

पत्रिका

आइआइटीराम में 'इंफ्रामिटिक्स 2047' छात्रों ने स्मार्ट और सस्टेनेबल इंफ्रास्ट्रक्चर के मॉडल दिखाए



स्पर्धा में शामिल दिखाया। अहमदाबाद @ पत्रिका. इंस्टिट्यूट ऑफ इंफ्रास्ट्रक्चर, टेक्नोलॉजी, रिसर्च एंड मैनेजमेंट (आइआइटीराम) ने 'इंफ्रामिटिक्स 2047' नाम से दिवसीय छात्र प्रतिस्पर्धा आयोजित की। विभिन्न इंजीनियरिंग विभाग की ओर से कई इस प्रतिस्पर्धा में भाग लेने वाले स्मार्ट, सस्टेनेबल और डिजिटल रेजिलिएंट इंफ्रास्ट्रक्चर की दिशा में नवाचार के लिए प्रेरित किया गया। प्रतिस्पर्धा में गुजरात और महाराष्ट्र की चार यूनिवर्सिटी से 30 टीमों ने भाग लिया। छात्रों ने मॉडल, मॉडल, प्रेजेंटेशन और विचार प्रतियोगिता में अपनी रचनात्मकता, तकनीकी कौशल और वैश्विक इंफ्रास्ट्रक्चर चुनौतियों को समझ कर प्रदर्शन किया। कार्यक्रम का उद्घाटन निदेशक प्रो. एम. के. बरआ की उपस्थिति में हुआ, जिसमें 100 से अधिक प्रतिभागी, फैकल्टी और छात्र मौजूद रहे। दो दिनों तक चले इस आयोजन में उत्कृष्ट प्रदर्शन करने वाले छात्रों को सम्मानित किया गया।



IITRAM में स्किल अने टेकनिकल नोलेज वधारवा 5 दिवसों के ट्रेनिंग प्रोग्राम शरू कराया

अमदाबाद: IITRAM ने लैबोरेटरी आसिस्टेंट अने इंफ्रामिटिक्स माटे स्किल अने टेकनिकल नोलेज वधारवा 5 दिवसीय ट्रेनिंग प्रोग्राम शरू कराया। कार्यक्रम बोपाल में नेशनल इंस्टिट्यूट ऑफ टेकनिकल टीचर्स ट्रेनिंग एंड रिसर्च अने अमदाबाद में प्रादेशिक केंद्र में सहयोगी योजाई रबो। ए ट्रेनिंग में लैबोरेटरी अने वर्कशोपना साधनोनुं-मेन्टेनन्स अने मैनेजमेंट, सिस्टीमिटी प्रोटीकोल, प्रेक्टिकल स्किल डेवेलपमेंट टेकनिकल, आर्थिक सिस्टम्स अने असुरक्षक भरीदी प्रक्रियाओ जेवा मुख्य क्षेत्रनो समावेश थाय। जे-नो डिसे टेकनिकल स्किल बनाववा, सिस्टीम लैबोरेटरी प्रेक्टिसने प्रोत्साहन आपे।

MEDIA COVERAGE

YMCA: An Unplanned Intersection That Just Can't Cope With Traffic Volume

With multiple service roads converging on the main carriageway from all sides, the four-arm YMCA Junction is a textbook example of how unplanned intersections spiral into chaos. No lane markers and a skewed junction geometry create unsafe, unpredictable traffic, while cameras and additional signals remain stripped due to the ongoing Iskcon-YMCA flyover project.

"There are no cameras to deter people from crowding past the stop line and blocking service lane connections. They



also freeze the free left lane," says Lalshankar Patidar, 37, a daily commuter. "Pedestrians find it nearly impossible to cross during peak hours. As no one stops—you just run across."

From the west, SP Ring Road traffic via Karnavati Club Road meets incoming vehicles from Iskcon and Karnavati Junctions. Southern traffic pushes in from Makarba. The eastern approach — lacking a median — forces abrupt merging from service lanes. "The Karnavati Road has three lanes, while its opposite is two. Illegal parking narrows both further," says a traffic constable. A 2019 AMC-IITRAM survey recorded peak-hour crossings of 142 to 420 vehicles per minute across major junctions — YMCA being among the worst affected.

ગુજરાત સમાચાર

13th May 2025 | Gujarat Samachar Plus

IIT-RAMના સિવિલ એન્જિનિયરિંગના Ph.D. ત્રણ સ્ટુડન્ટનું એનાલિસીસ રિસર્ચ : પીરાણાના કચરાનો રેતીના વિકલ્પ તરીકે ઉપયોગ કરી શકાશે

આ ઈઆઈટી-રામના સિવિલ એન્જિનિયરિંગના પીએચ.ડી. સ્ટુડન્ટસ પરિશી દલાલ, માહી પાટીલ, સંદીપ રેડ્ડીએ પ્રો.ડૉ.કન્નન એચર અને ડૉ.તુદિપ દવેના માર્ગદર્શન હેઠળ 'ખોદકામ કરામેલા કચરાના પુનઃઉપયોગ' પર એનાલિસીસ કર્યું છે.



કુદરતી રેતીનો ઉપયોગ ઘટાડી શકાય

નદીમાંથી નીકળતી રેતીનો કન્ટ્રીકેશનની સાથે વિવિધ જગ્યાએ ઉપયોગ કરવામાં આવે છે. રેતીના ઉપયોગની સામે કચરાના વેસ્ટનો ઉપયોગ થાય તો કચરાનો યોગ્ય ઉપયોગ કરવાની નવી દિશા મળશે આ સાથે પર્યાવરણને નુકસાન ઓછું થશે. આ કામગીરીથી કચરાનું વગીકરણ કરવાની સાથે કચરાનો યોગ્ય ઉપયોગ થવાથી શહેરના પ્રદૂષણમાં પણ ઘટાડો થઈ શકે છે.

સ્ટુડન્ટ પરિશી દલાલે કહ્યું કે, હાલ કન્ટ્રીકેશન સાઈટ બનાવવામાં નદીની રેતીનો ઉપયોગ કરવામાં આવે છે. શહેરમાંથી દૈનિક કચરાને એકત્રિત કરીને પીરાણા ઈમ્પ્રોવ સાઈટ પર લઈ જવામાં આવે છે. આ કચરામાં સ્લોપનો કચરો, પ્લાસ્ટિક, વૃક્ષોની ઠાળીઓ તેમજ પાંદડાઓ પણ હોય છે. આ કચરો વર્ષો સુધી નાશ પામતો નથી અને તેને કારણે પ્રદૂષણ પણ વધે છે. વર્ષો સુધી પડી રહેલા કચરાનું વગીકરણ કર્યા પછી તેમાં નીચે રહેલાં નકામા કચરાને લેન્ડફિલ માઈન સોઈલ લાઈફ ફેક્સન (એલએમએસએફ) કહેવામાં આવે છે. આ કચરામાં એલએમએસએફનું પ્રમાણ ૭૦ ટકા હોય તો તેમાં ભારે ધાતુ તથા ઓર્ગેનિક પદાર્થ હોવાની સંભાવના વધારે રહેલી છે. આ માટીના કચરાની મજબૂતાઈ વધારે



માહી પાટીલ પરિશી દલાલ સંદીપ રેડ્ડી

ઉપયોગમાં તરીકે લઈ શકાય તેવું અમારા સ્ટી સંશોધનના પ્રાથમિક તબક્કે જાણી શકાયું છે. આજનાં સમયમાં જો આ ટેકનિકનો વ્યવહાર કરવામાં આવે તો, તેને કારણે જમીન પ્રદૂષણમાં ઘટાડો કરી શકાય છે.



IITRAM hosts two-day event RADAR-2025

IITRAM's Centre of Excellence in Advanced Defence Technology and Centre of Excellence in Aerospace and Defence hosted the two-day RADAR-2025 — a GUJCOST-supported event — that brought together researchers, industry experts, and academicians to explore cutting-edge innovations in defence and aerospace domains. The event featured technical sessions that showcased over 30 presentations on emerging areas in the sector, as well as presentations on research in various related fields.



ખામદાવાદ : ખોખરાની IITRAM કોલેજમાં મિકેનિકલ એન્જિનિયરિંગનું પાંચમું આંતરરાષ્ટ્રીય "ICRAM ૨૦૨૫" સંમેલન યોજાયું. જેમાં ટ્રાન્સપરના ખ્યાનનામ સંસ્થાઓના અધ્યાપકોએ એડવાન્સ ટેકનોલોજીના રિસર્ચ પેપર રજૂ કર્યા હતા.

IIT રામમાં ગર્લ્સ-બોયઝ હોસ્ટેલ, ક્વાર્ટર્સનું ઉદ્ઘાટન

એજ્યુકેશન રિપોર્ટર | અમદાવાદ

ખોખરાની ઈન્સ્ટિટ્યુટ ઓફ ઈન્ફ્રાસ્ટ્રક્ચર, ટેકનોલોજી, રીસર્સ એન્ડ મેનેજમેન્ટ (આઈઆઈટી રામ) સંસ્થામાં ગર્લ્સ હોસ્ટેલ, બોયઝ હોસ્ટેલ તેમજ ઈ-1 ટાઈપ સ્ટાફ ક્વાર્ટર્સનું ઉદ્ઘાટન રાજ્યના ટેકનિકલ શિક્ષણમંત્રી ઋષિકેશ પટેલ સહિતના મહાનુભાવોની ઉપસ્થિતિમાં કરવામાં આવ્યું હતું. આશરે રૂ. 103 કરોડના ખર્ચે ઓવરઓલ માળખાકીય સવલતો ઊભી કરવામાં આવી છે.

આઈઆઈટી રામના સત્તાવાળાઓનો એવો દાવો છે કે ગર્લ્સ અને બોયઝ હોસ્ટેલ, સ્ટાફ ક્વાર્ટર્સ, ગેસ્ટ હાઉસ સહિતની આધુનિક માળખાકીય સવલતો લગભગ ગાંધીનગર આઈઆઈટી જેવી છે. વિદ્યાર્થીઓ અને સ્ટાફ માટે જિન્નેશિયમ, ઈનડોર ગેમ્સ, રીડિંગ રૂમ્સ, કમ્પ્યુટર લેબોરેટરી જેવી સવલતો ઉપલબ્ધ કરાવાઈ છે. જેનો વિધિવત્ લાભ 19 જુલાઈથી મેળવી શકાશે.



ખોખરાના ઈન્સ્ટિટ્યુટ ઓફ ઈન્ફ્રાસ્ટ્રક્ચર, ટેકનોલોજી, રિસર્ચ એન્ડ મેનેજમેન્ટ એટલે આઈઆઈટી રામ ખાતે 'આયુષ્ ગ્લોબ-૨૦૨૫' આંતરરાષ્ટ્રીય સેમિનાર યોજવામાં આવ્યો હતો. આ દરમિયાન નિષ્ણાંતો દ્વારા આરોગ્ય ક્ષેત્રમાં વૈશ્વિક સ્તરે ભારતની ભૂમિકા વિશે ચર્ચા કરાઈ હતી.

આઈઆઈટી-રામમાં ત્રિ-દિવસીય ઈન્ટરનેશનલ કોન્ફરન્સનું આયોજન

ડિપાર્ટમેન્ટ ઓફ મિકેનિકલ એન્ડ એરોસ્પેસ એન્જિનિયરિંગ આઈઆઈટીરામ, સેન્ટર ફોર સ્પેસ સાયન્સ એન્ડ ટેકનોલોજી આઈઆઈટી રૂરકી એન્ડ ધ ડિપાર્ટમેન્ટ ઓફ મિકેનિકલ એન્જિનિયરિંગ એસવીએનઆઈટી સુરતના સંયુક્ત ઉપક્રમે આઈઆઈટીરામ ખાતે પાંચમી ઈન્ટરનેશનલ કોન્ફરન્સ ઓન રિસેન્ટ એડવાન્સ ઈન મિકેનિકલ ઈન્ફ્રાસ્ટ્રક્ચર (આઈસીઆરએએમ ૨૦૨૫)નું ૧૦થી ૧૨ જાન્યુઆરી સુધી આઈઆઈટીરામ ખાતે આયોજન કરાયું છે. આ કોન્ફરન્સમાં હાથર અને ટેકનિકલ એજ્યુકેશન મિનિસ્ટર ચીફગેસ્ટ તરીકે ઉપસ્થિત રહેશે.

MEDIA COVERAGE

Divya Bhasker 23/9/2024

મહત્વ પોઝિટિવ હાડકાંના કેન્સરને કારણે હાથ ગુમાવનારા 7 દર્દીને કેન્સર હોસ્પિટલે ફ્રીમાં કૃત્રિમ હાથ નાખી આપ્યા, 5 કિલો સુધી વજન ઉપાડી શકે છે પરવશ કે લાયક દર્દીને 'અમદાવાદી હાથ' આત્મનિર્ભર બનાવે છે



ફર્સ્ટ પર્સન ડૉ. અભિજિત સારુકે ઓર્થોપેડિક, કેન્સર સર્જન

હાડકાંના કેન્સર દર્દીના શરીરમાં હિલ્લાઈ ગયું હોય તો તેનો હાથ કાપવા સિવાય કોઈ વિકલ્પ રહેતો નથી. હાથ ગુમાવનારો દર્દી પરવશ કે લાયક બની જાય છે. આ ખ્યાલ મનમાં આવતા કૃત્રિમ હાથ બનાવ્યો. 'અમદાવાદી હાથ' નામથી ઓળખાનારો આ 'માથો ઈલેક્ટ્રિક હેન્ડ' દર્દીને આત્મનિર્ભર બનાવે છે. આ હાથથી દર્દીની આંગળીઓ પણ હલનચલન કરી શકે છે અને 5 કિલો સુધી વજન ઊંચી શકે છે. ગુજરાત કેન્સર એન્ડ રિસર્ચ

ઈન્સ્ટિટ્યૂટે છેલ્લા એક વર્ષમાં 7 દર્દીને કૃત્રિમ હાથ ફીટ કરી આપી રોજિંદા કામ જાતે કરતા કર્યા છે. હાલ માત્ર કેન્સરના દર્દીને આ હાથ ફીટ કરી આપાય છે. પરંતુ ભવિષ્યમાં જન્મજાત ખોડ કે અકસ્માતમાં હાથ ગુમાવનારાને પણ તે નહીં નહીં નહીં નુકસાનના ધોરણે રૂ.50 હજારથી 1 લાખમાં ફીટ કરી આપશે. અત્યારે કૃત્રિમ હાથની ઈલેક્ટ્રિક કિટ વિદેશથી આયાત કરાતી હોવાથી અંદાજે 6થી 7 લાખ ખર્ચ થાય છે. અમે ખોખરાની આઈઆઈટી રામના એન્જિનિયર રાવવેન્દ ભાલેરાવ, ઈલેક્ટ્રોનિક એન્જિનિયર કૃષ્ણ શાહ, પ્રોસ્ટેટિક એક્સપર્ટ હાર્દિક શર્માની મદદથી કૃત્રિમ હાથ તૈયાર કર્યા છે. સમગ્ર સંશોધનમાં જીસીઆરઆઈના ડાયરેક્ટર શશાંક પંડ્યાએ તમામ મદદ કરી હતી.



કૃત્રિમ હાથમાં રહેલી મોટર મગજના સંકેતને માંસપેશીઓ સુધી પહોંચાડે છે

- મૂર્તિને બીબાથી આકાર આપાય છે તે રીતે શ્રી-ડી સ્કેનરના ઉપયોગથી દર્દીના કપાયેલા અને સારા બને હાથ પર પ્લાસ્ટર અને તેના પરથી પ્લાસ્ટિક સોકેટ-સિલીકોન મટીરિયલથી હાથનું બીલું બનાવવામાં આવે છે.
- પછી કાંડાના ભાગેથી મેટલથી બનેલો હાથ પણ સાથે ફીટ કરાય છે. કૃત્રિમ હાથને કામ કરતો કરવા સર્વો મોટર અને રિચાર્જબલ બેટરી લગાવાય છે.
- હાથમાં રહેલી મોટર અને સેન્સર મગજના સંકેતોને માંસપેશીઓ સુધી કરંટ મોકલે છે.
- હાથ આંગળીઓને ખોલાવા-બંધ કરવા તેમજ માંસપેશીની સંકેતોન શક્તિના આધારે વસ્તુ પકડવાની શક્તિ અને ગતિમાં ફેરફાર કરી શકે છે.
- કૃત્રિમ હાથ લગાવ્યા બાદ દર્દીને મગજ દ્વારા હાથને સંકેત આપીને મુવમેન્ટમાં લાવવા 15 દિવસથી એક મહિનાની ટ્રેનિંગ આપાય છે.

કૃત્રિમ હાથથી બાઈક પણ ચલાવી શકાય છે

માથો ઈલેક્ટ્રિક હાથની મદદથી દર્દી 3થી 5 કિલો વજન ઉપાડી શકે છે. તેમજ પેન-ગ્લાસ ઉચકવાની સાથે કમ્પ્યુટર, મોબાઈલના ઉપયોગથી લઈને સાથે સાઈકલ અને બાઈક પણ ચલાવી શકે છે. આ સાથે દર્દીને વિકલાંગતામાંથી બહાર આવી નવજીવન મુખ્યનો અહેસાસ કરે છે. Dr. Shashank Pandya, Director, Gujarat Cancer and Research Institute

Times of India 16/9/2024

Barriers against flyover traffic noise planned

Alhambad: Constant exposure to the sound of vehicles on flyovers has become an inconvenience for those living in a stone's throw from these structures. Informal complaints to councilors have prompted the Ahmedabad Municipal Corporation (AMC) to install 'noise barriers' against the urban noise. The civic body has begun a survey of flyovers and bridges near hospitals, schools and research institutions where noise from traffic has been a major disturbance.

AMC's 24-hour noise pollution surveys on the Income Tax and Thakkarbapanagar flyovers have delivered shocking results. These stretches have an average noise level of 86 to 97 decibels, nearly double the acceptable limit. Spurred by these findings, the AMC's standing committee has approved a Rs 1.62 crore pilot project to install noise barriers on these flyovers. If successful, this initiative could be the first note in a city-wide symphony of silence.

An official added, "About 70% of the city's noise pollution stems from transportation. The surge in vehicles has only amplified this issue, particularly in dense areas, major junctions and flyovers." Right now, AMC's plan involves a comprehensive survey of near 20 flyover bridges in noise-sensitive zones, where decibel (dB) levels breach the prescribed limits. "Priority will be given to flyovers near hospitals and educational institutions, with the IIM flyover and Gujarat College railway flyover bridge as noise hotspots. Other flyovers to be studied include: Gujarat College Serpentine Bridge, Dileshwar Bridge, IIM Flyover, Vastrapur, Vejalpur, Helmet Junction Flyover, Bodakdev, AEC Flyover, Narapura, GST Flyover, Rang, Chandoliya Railway Flyover, Chandoliya, Jamnagar Char Rasta Flyover, Jambhvan, CIMS Hospital Railway Overbridge, Sola, Anjali Flyover, Vastna, and Garaji Railway Overbridge, Dakshin.

Bridge	Minimum Noise Pollution	Maximum Noise Pollution	Transition to dB with barriers
Income Tax Junction Flyover	66-97	81+6	30 to 47
Thakkarbapanagar Flyover	73-96	87+10	30 to 47

College railway flyover bridge is on the list," said the AMC official.

A senior official attributed this to low awareness, adding, "Addressing permanent noise from transportation is more challenging. The noise barriers we are to install can be aluminium or steel panels, often with perforations or corrugations to enhance sound absorption. These features work together to reflect, absorb and diffract sound waves, significantly reducing the noise reaching nearby areas."

Acceptable noise levels for residential areas vary depending on the location. In night areas, the acceptable noise level ranges from 25 to 35 dB (dB).

Gujarat Samachar 07/08/2024

IITRAMના છટ્ટા પદવીદાન સમારોહમાં ૧૬૦ સ્ટુડન્ટ્સને પદવી એનાયત કરાઈ

વજાલમાં આવેલા ડૉ.શ્યામપ્રસાદ મુખર્જી ઓરિટોરિયમ હોલ ખાતે ઈન્સ્ટિટ્યૂટ ઓફ ઈન્ફ્રાસ્ટ્રક્ચર, ટેકનોલોજી, રિસર્ચ એન્ડ મેનેજમેન્ટ (આઈઆઈટીઆર)નો છટ્ટા પદવીદાન સમારોહ યોજાયો હતો. પદવીદાન સમારોહમાં બી.ટેકના ૧૨૯, એમ.ટેકના ૨૧ અને ડૉક્ટરેલ સ્નાતકના ૧૦ એમ કુલ ૧૬૦ સ્ટુડન્ટ્સને પદવી એનાયત કરાઈ હતી. પદવીદાન સમારોહમાં મુખ્ય અતિથિ તરીકે ઉપસ્થિત રહેલા સેન્ટ યુનિવર્સિટીના ડાયરેક્ટર પ્રો. બર્જોર મહેતાએ દીક્ષાંત પ્રવચન આપતા કહ્યું કે, આઈઆઈટીઆરનું કેમ્પસ તમારા માટે યાદગીરી બની રહેશે. તમે તમારા સપનાંઓને પૂરા કરવા માટેનો સમય આવી ગયો છે. તમારે સ્માર્ટ અને સસ્ટેનેબલ ઈન્ફ્રાસ્ટ્રક્ચરને ધ્યાનમાં લઈને કામ કરવું જોઈએ.

Ahmedabad Mirror 06/08/2024

160 get degree at IIT-RAM's convocation

In its sixth annual convocation ceremony, the Institute of Infrastructure, Technology, Research and Management (IIT-RAM), a total of 160 graduates were conferred degrees in an event held at Dr Shyama Prasad Mukherjee Auditorium Hall, Vastrapur, Ahmedabad.

A total of 129 BTech, 21 MTech and 10 doctoral graduates received degrees. Six students, three each in civil and electrical engineering, were awarded BTech degree with Honours, while five students in electrical engineering and four in mechanical engineering were awarded BTech degrees with Minors. Seven gold and three silver medals were awarded across all branches of engineering.

AM

Rajasthan Patrika 06/09/21

નવાચાર : અસલી હાથ કી તરહ હી કામ કરતે હૈ કૃત્રિમ હાથ, કાર, બાઈક ચલાને મેં મ્હો સક્ષમ

કૈન્સર સે હાથ ખોને વાલે 7 મરીજ દિમાગ સંચાલિત હાથ કે સહારે

ઓમપ્રકાશ શર્મા patrika.com

અહમદાબાદ: કૈન્સર યા નિર દુર્ઘટના મેં હાથ મંચ તુકે લોગે કે નિર, અવ અન્કી રુબર સમને આઈ હૈ. યે અવ અન્કી કૃત્રિમ હાથ લગાવ સકતે હૈ, જિસકે સહારે ન નિરક મિલાસ યા વજન ઊડા સકતે હૈ થનિક અન્કી ઘોટે ઘોટે કામ મ્હો નિરક જા સકતે હૈ. યહ એસ કૃત્રિમ હાથ હૈ જો પ્રાકૃતિક હાથ કો તરહ હી કામ કરતા હૈ. ઇન્કી વિશેષતા યહ હૈ કિ: યહ દિમાગ મેં લગે સૈન્સર કે માધ્યમ સે કામ કરતા હૈ. કોહન ય કંપે કે નેત્રે તથા અપર સે હાથ મંચને વાલે મરીજો કો યહ હાથ લગાવે જાતે હૈ. કૈન્સર કે સર્જન હાથ

કાટને પર છહ મિલાવેર ઓર એક પુરુષ કો અહમદાબાદ સિવાય મુજરાત કૈન્સર રિસર્ચ ઇન્સ્ટિટ્યૂટ (જીસીઆરઆઈ) ને માથો ઈલેક્ટ્રિક હાથ લગાવે હૈ. આમીતો પર લગાવ છહ લઘુ રુપ્ કોમ્પ વાલે ઇસ તરહ કે હાથ સમી સ્થાનો લેવો કો સમ્ભવ હૈ. આમીતો પર માયોદેલેક્ટ્રિક હાથ કો વૈકામ હો તથા રુપ્ સે લેકર કોઈ રુપ્ તક હોતો હૈ.

એસે કામ કરતા હૈ હાથ

જીસીઆરઆઈ કે આર્થોપેડિક કેન્સર સર્જન ડૉ. અભિજીત સારુકે ને થતાય કિ સાત મરીજો કો લગાવે ગવ ઇન માયો ઈલેક્ટ્રિક હેન્ડ કા અધિકાર ભાગ મેલક કા હૈ. ઇસમે મોટર કે અલાય સૈન્સર હૈ જો દિમાગ કો સેક્રે કો અધાર પર કામ કરતા હૈ. દિમાગ માંસપેશિયો કો ઓર માંસપેશિયો સૈન્સર તક કરંટ બેજી હૈ, જિસસે હાથ કામ કરતા હૈ.

કૃત્રિમ હાથ કે સાથ વિકલ્પક વ ઈન્જિનિયર. પત્રિકા

કોલેજ કી આકાર મદદ સે આકાર દે પાવે હાથ

શહર કે હાલકેસર રિચત આઈઆઈટીઆર કાલેજ કે હોલિવુડકલ ઈન્જિનિયર કૃષ્ણ શાહ, રાઘવેદ મહેતાવર, હાર્દિક શર્મા (ઓર્થોપેડિક) ય અન્કી કર્મચરિયો ને હાથ કો આકાર દિવા હૈ. કૈન્સર અવસ્થાલ કે વિકલ્પક કી જરુરત કે અધાર પર હાથો કો આકાર દિવા જાતા હૈ.

મરીજો કો ઇસ તરહ કે હાથ સે કાકી લાભ હો રહે હૈ. યે મિલાવે, કામ પકડને કે સાથ ઇસ હાથ સે યાંચ ફિલી તક વાન મી આસાની સે ઉડા સકતે હૈ. સાથ હી મોબાઇલ, કમ્પ્યુટર વલને, કાર ઓર બાઈક વલને, સાઈકલ વલને મેં મ્હો ઇસ તરહ કા હાથ કાકી ઉપયોગી હૈ. સમી મરીજો કો સરકાર કી મદદ સે ઇન હાથો કો નિશુલક પ્રવાન કિયા ગયા હૈ.

ડૉ. શશાંક પંડ્યા, નિરેશક જીસીઆરઆઈ

Times of India 15/06/2024

IITRAM, IIT Patna sign MoU for student exchange

The Institute of Infrastructure, Technology, Research and Management (IITRAM) Ahmedabad and Indian Institute of Technology, Patna, recently signed a Memorandum of Understanding for Student Exchange. The MoU facilitates collaborative research, lectures and conferences in areas of common interests between the two institutes. It also allows exchange of students, scholars and researchers in addition to sharing of data, documentation and research materials. Students of both the institutes can benefit from the credit transfer, especially through joint degree programs.

GLIMPSES OF SOCIAL MEDIA



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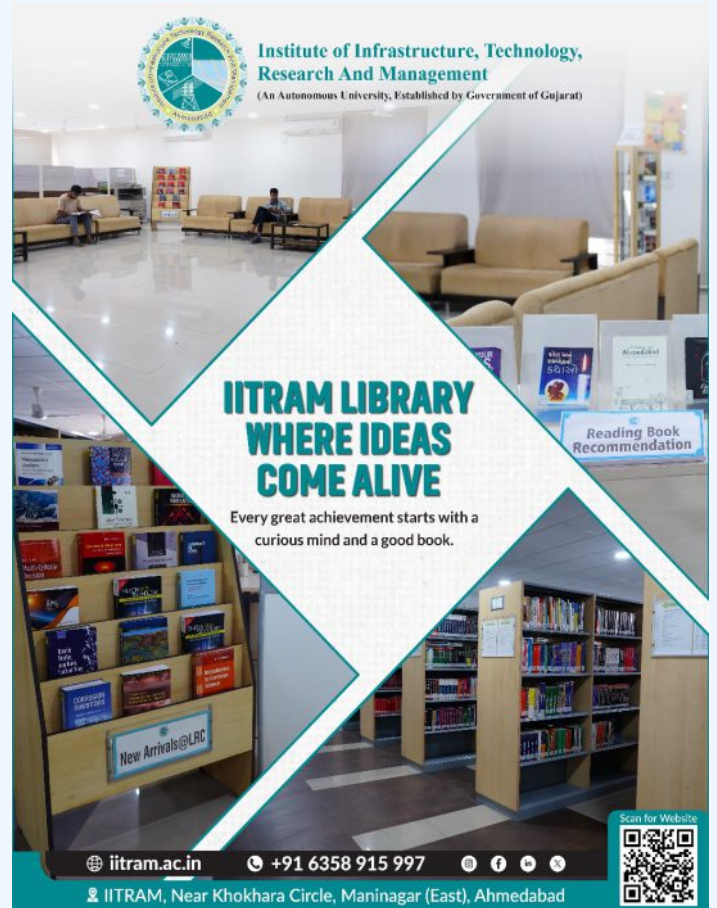
A top-rated, trusted place for quality Engineering Education

- ✔ 5-Star Rated in GSIRF 2024 (Engineering)
- ✔ Proudly NIRF Ranked in 2023 & 2024
- ✔ Recognized for high academic standards
- ✔ Student Faculty Ratio less than 10.
- ✔ Focus on student success and innovation
- ✔ Trusted name in engineering education
- ✔ Consistent performance at state and national levels

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IITRAM, Near Khokhara Circle, Maninagar (East), Ahmedabad



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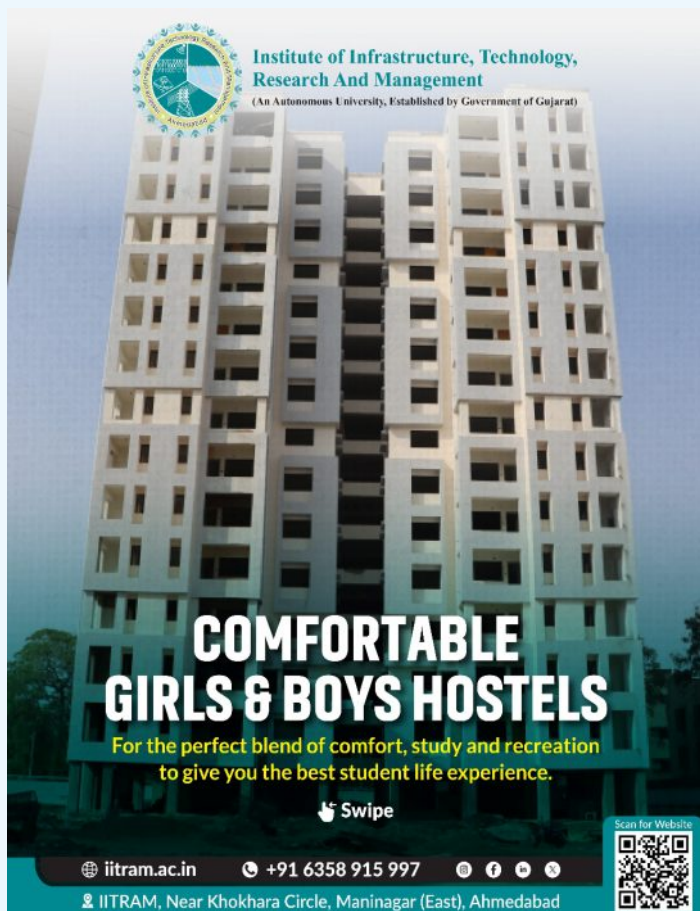
IITRAM LIBRARY WHERE IDEAS COME ALIVE

Every great achievement starts with a curious mind and a good book.

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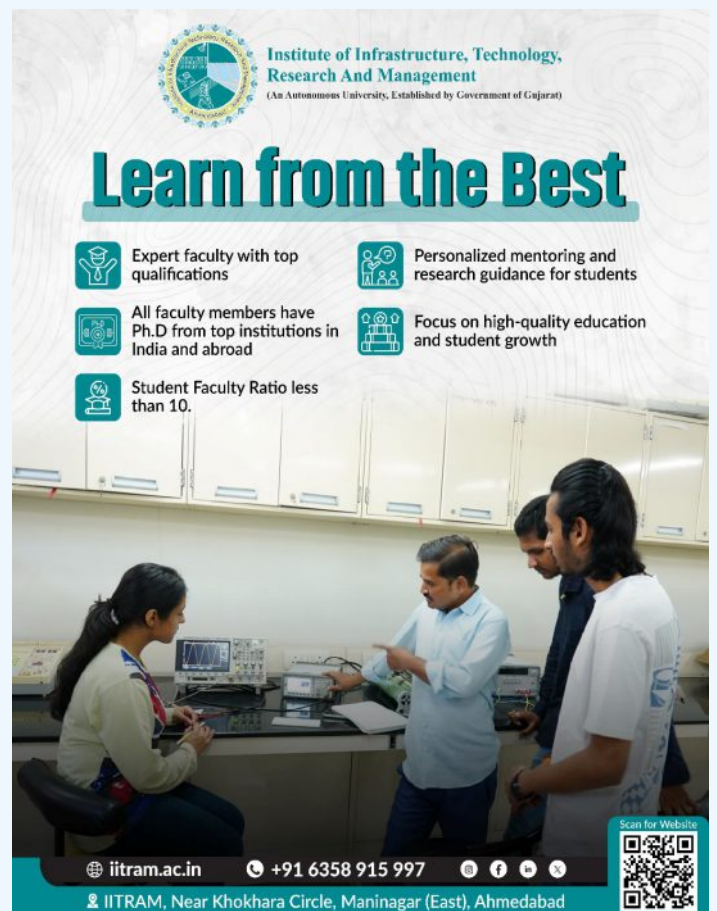
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INSTITUTE ACHIEVEMENTS

192 rank As Per Nirf Ranking during 2022	NIRF Ranked In 2023- 24	5 Star rating Ranking Frame Work (GSIRF - 2024)
74 04 47 Research Scholars thesis submitted awarded	555 collective H- Index	80+ 33 Patents Filed And Granted
Faculty All are Ph.D. Holders	Less than 10 Student To Faculty Ratio	1000+ Research Papers Published
189 Books/Chapters Published	26 Research Projects approved by with a total grant of Rs. 565 Lakhs	

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IITRAM A leading institute for ENGINEERING EDUCATION

01 Students from Pan India	02 26+ Funded Research Projects	03 Student Faculty Ratio less than 10	04 1200+ Hostel Capacity for Boys & Girls	05 1000+ Research Papers	06 125+ PhD Students
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B.TECH AND B.TECH (HONORS) PROGRAMS

ADMISSIONS OPEN FOR 2025-26

Civil Engineering

Electrical Engineering

Mechanical Engineering

Computer Engineering



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- Centre of Excellence for Advanced Defence Technology
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- ✓ Global Collaborations
- ✓ New Boys & Girls Hostels
- ✓ Techfest & Cultural Fest
- ✓ Cafeteria, Music Rooms, Library
- ✓ Student Activity Center, Gym, Clubs, Sports, OAT




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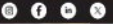
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MOUS AND COLLABORATIONS AT IITRAM

NATIONAL INSTITUTES/INDUSTRY	INTERNATIONAL INSTITUTES INDUSTRY
<ul style="list-style-type: none"> Indian Institute of Technology (IIT) Roorkee Indian Institute of Technology (IIT) Patna Indian Institute of Technology (IIT) Ropar Sardar Vallabhbhai National Inst. of Tech. (SVNIT) Surat National Inst. of Technical Teachers' Training & Research (NITTTR) Bhopal Innovante Water Solutions Pvt. Ltd., Haridwar, Uttarakhand 	<ul style="list-style-type: none"> Louisiana State University Shreveport (LSUS) USA University of Bath (UOB) United Kingdom Kunsan National University (KNU) South Korea Hiroshima University Japan University of Basque Country, Bilbao, Spain Semtronics, United Kingdom

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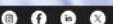
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UNDERGRADUATE CHEMISTRY LAB

- pH analysis using a pH meter
- Conductivity analysis using a conductometer
- Estimation of water hardness
- Measurement of dissolved oxygen (DO) in water
- Study of the kinetics of a reaction
- Estimation of chemical oxygen demand (COD) in water
- UV-Vis spectroscopy to verify the Lambert Beer law



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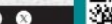



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MINOR PROGRAMS	HONOURS PROGRAMS
<ul style="list-style-type: none"> Drone Technology Computer Science & Engineering Management 	<ul style="list-style-type: none"> Civil Engineering Electrical Engineering Mechanical Engineering Computer Engineering

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

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EVENTS HIGHLIGHTS



2nd International Conference on **POWER, CONTROL & COMMUNICATION INFRASTRUCTURE 2026** (ICPCCI2026)

CALL FOR PAPERS

**08 - 09
Oct. 2026**

Proposed Sponsors



Second International Conference on Power, Control and Communication Infrastructure (ICPCCI2026) will be held on October 8-9, 2026 in Ahmedabad, Gujarat, India. The ICPCCI2026 will be a melting pot of researchers from academia, and R & D organizations and practicing engineers from the utilities, industries and service providers to discuss, share and promote ideas related to state-of-the-art Innovations in Technologies for the Power-Control-Communication sectors. The conference includes Industrial Panel Sessions, Keynote Speeches, Plenary talks, Tutorials, Papers and Poster presentation. With 5 technical streams spread over 2 days, there will be plenty of opportunities for the participants to showcase their work in front of professionals of respective fields.
Link: <https://iitram.in/icpcci26/>

Papers are invited on the topics related to Electric Power, Control and Communication, with following focus areas:

<p>Electric Power & Energy</p> <ul style="list-style-type: none"> Energy Conversion Plasma Technology Renewable energy & grid integration Energy storage systems Power electronic converters Power system protection & security FACTS and HVDC Power quality Power system operation & control Computer applications in power sys: Energy management Energy policies & regulation Power & energy education Restructured power system Future grids, buildings, cities & resilient Micro grids Electrical machines & drives Transportation electrification Optimal operation Electricity Gas-Water coordination Condition monitoring & predictive maintenance of electric equipment Asset management 	<ul style="list-style-type: none"> Model predictive control Complex systems Co-operative control Identification and estimation Nonlinear systems Intelligent systems Discrete event systems Hybrid systems Networked control systems Sensor network systems Delay systems Neural networks Fuzzy systems Control of biological systems Precision motion control Control applications Fault diagnosis Control engineering education Robotics and control 	<ul style="list-style-type: none"> Wireless Networks and Wireless Sensor Networks Navigation Systems: GPS, IRNSS Radar and Microwaves Sensor and Actuator Networks Cellular Networks, Wireless LANs, PANs, MANs, Sensor/ad-hoc Networks Mobile IP, IP and Satellite Networks, Wireless Internet/Communications Firewalls, Privacy Protection, Security Specification, Encryption/Decryption Satellite: Design, Networks, High Throughput Satellites, High Power Amplifiers, Power Conditioners 	<ul style="list-style-type: none"> UAV-based sensor networks UAV swarms UAV-related protocols and mechanisms UAV Design and Data Analysis
<p>Control Systems</p> <ul style="list-style-type: none"> Adaptive control Robust control Process control 	<p>Communication Systems</p> <ul style="list-style-type: none"> Analog and digital communication Antenna Design Blue-tooth, Cellular and Mobile Communication Fiber and Optical Communication Machine to Machine Communication OFDM-MIMO Systems and Channel Design 	<p>Autonomous Vehicles & UAV</p> <ul style="list-style-type: none"> UAV-IoT-enabled sensing and tracking UAV integration in cellular networks UAV-enabled edge computing UAV operations 	<p>Systems for AI/ML</p> <ul style="list-style-type: none"> AI/ML for Mobile Sensing and IoT Scalable system architectures for the future of AI/ML AI/ML for large-scale edge computing solutions Distributed systems for AI models of the future Efficient deployment of AI models Real-time processing and inference at the edge Resource-efficient algorithms for large-scale data Optimization techniques for edge-based AI applications System enhancements to bring AI to the edge Case studies and practical experiences in deploying AI/ML at scale and the edge Hardware-aware AI modeling and deployments Generative AI on the edge

Organized by

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An Autonomous University established by Government of Gujarat

**One Week Short Term Training Program on
ROBUST CONTROL OF AUTONOMOUS VEHICLES: THEORY TO PRACTICE**
19th to 23rd January 2026



Qdrone 2



Qcar



Qbot 3



Autonomous Vehicles Research Studio

Jointly Organized by
Department of Electrical and Computer Science Engineering
and The Centre of Advanced Defence Technology (CADT)

About the STTP :

This training program is designed to provide a theoretical and practical understanding of controller designs for Autonomous Vehicles. Beginning with a review of classical controllers, the course will progress towards the for advanced intelligent algorithms used to control and stable operation of Autonomous Vehicles. In the course, MATLAB will be explored to demonstrate the Autonomous Vehicles for hands-on practice. The sessions will be delivered by the eminent speakers from Academia and Industries who are working in the domain of Autonomous Vehicles.


Objective:

- To learn the fundamentals of Autonomous Vehicles and their applications such as medical, agriculture, space mission and surveillance.
- To understand the kinematic and dynamic modelling of Autonomous Vehicles with simulation and practical deployment.
- To understand the advanced controllers for control of the Autonomous Vehicles.
- To Familiarize with the different strategies for Autonomous vehicles navigation and path planning.
- To explore demonstrate the hands-on practice in the Autonomous Vehicles laboratory.

Who can Participate ?
Faculty members, research scholars, students, and professionals interested in Autonomous Vehicles.

Link for Registration: <https://iitram.in/workshop/index42/index.php>

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Organized by the Department of Mechanical & Aerospace Engineering

CAPSULE COURSE ON INDUSTRIAL HYDRAULICS: THEORY, DESIGN, AND HANDS-ON PRACTICE

HIGHLIGHTS

Module 1:
Lecture: Introduction and Basic Concepts

Module 2:
Lecture: Hydraulic Components and Circuit Design

Module 3:
Hand-on-Training on Hydraulic Trainer

Details of the Event


Date: 09-April-2025 (Wednesday)


Timings: 2:30-5:30 PM

Venue: L-205 (Lecture) G8 (Hands-on session)

Registration Link:
<https://forms.gle/Rmyq4i7HF7yKN3hw5>

for Registration





Faculty Coordinator:
Dr. Sumit Tripathi, Assistant Professor,
Mechanical & Aerospace Engineering Department,
Email: sumittripathi@iitram.ac.in

Nr. Khokhra Circle, Maninagar (East), Ahmedabad - 380 026

**6 Days 2nd Workshop on
MATERIALS CHARACTERIZATION:
STRUCTURE,
SPECTROSCOPY
AND MICROSCOPY**

**18-23
August
2025**

INSTITUTE OF INFRASTRUCTURE, TECHNOLOGY, RESEARCH AND MANAGEMENT
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Topics

- Structure, symmetry and diffraction: theoretical framework
- X-ray diffraction: structural analysis by Rietveld Refinement
- Uv-Vis spectroscopy: electronic and optical properties
- Ultra fast Spectroscopy and Quantum Molecular Reactions
- IR and Raman spectroscopy: vibrational analysis
- X-ray photoelectron and energy dispersive x-ray spectroscopy for compositional analysis
- Raman and IR spectral mapping
- SEM and TEM: theory of image formation, microstructural and texture analysis, possible artifacts
- Electron diffraction and defect analysis by TEM and SEM.

Important Dates:

- Registration Opens: April 24, 2025
- Registration closes: July 23, 2025
- Registration Fees: Rs. 3500/-

For query contact:
Dr. Brajesh Tiwari
(Tel.) 079-6777 5414 (M) 9884304035.
E-mail: brajeshitiwari@iitram.ac.in
Dr. Mahuya Bandyopadhyay
E-mail: mahuyabandyopadhyay@iitram.ac.in

Registration Link:
<https://iitram.in/workshop/index41/index.php>

Total Seats: 60
(First come first served basis)

Speakers

- Prof. Anil Bhardwaj, Director PRL, Ahmedabad
- Prof. Indradev S. Samajdar, MEMS, IIT Bombay
- Prof. Sudhakar Chandran, Physics, IIT Madras
- Prof. Ambesh Dixit, Physics, IIT Jodhpur
- Prof. Deepak Chopra, Chemistry, IISER Bhopal
- Prof. P. K. Jha, Physics, M. S. University, Vadodara
- Dr. Rajesh Kumar Kushwaha, PRL, Ahmedabad
- Dr. Dheeraj Kumar Singh, Nano Sciences, CUG, Vadodara
- Dr. Mahuya Bandyopadhyay, Chemistry, IITRAM Ahmedabad
- Dr. Sourav Das, Chemistry, IITRAM Ahmedabad
- Dr. Brajesh Tiwari, Physics, IITRAM Ahmedabad

EVENTS HIGHLIGHTS



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IITRAM – AEMA INDUSTRY ACADEMIA CONCLAVE

31 JULY 2025 (THURSDAY) | 3:00 PM – 5:00 PM
Venue: Seminar Hall, S-101, IITRAM Campus, Ahmedabad, Gujarat

OVERVIEW:
This conclave brings together the Ahmedabad Engineering Manufacturers Association (AEMA) delegation and IITRAM faculty to explore collaborative opportunities in manufacturing, AI/ML & Data Sciences, Electrical, and Civil Engineering. The event aims to foster partnerships that leverage industry expertise and academic research strengths.

OBJECTIVES:

- Facilitate dialogue between industry leaders and academic scholars
- Identify joint research and development initiatives
- Showcase faculty and student innovations
- Strengthen internship and training pipelines

PROGRAM SCHEDULE:

- 3:00 – 3:15 PM Welcome Address & Opening Remarks
- 3:15 – 3:45 PM Industry Perspectives by AEMA Delegation
- 3:45 – 4:15 PM Faculty Lightning Presentations
- 4:15 – 4:45 PM Panel Discussion & Q&A
- 4:45 – 5:00 PM Closing Remarks & Vote of Thanks

PATRONS

- **Prof. P. K. Jain**, Director General, IITRAM
- **Prof. M. K. Barua**, Director, IITRAM

COORDINATED BY

- **Dr. Navneet Khanna**, Associate Professor and Dean (Faculty Affairs)
- **Dr. Ajit Kumar Parwani**, Associate Professor and Dean (Research & Development)



INSTITUTE OF INFRASTRUCTURE, TECHNOLOGY, RESEARCH AND MANAGEMENT

**1 Day Workshop on
SMART CAMPUS SOLUTIONS: DIGITIZING MESS & HEALTHCARE MANAGEMENT**
July 26, 2025

About IITRAM, Ahmedabad
Institute of Infrastructure Technology Research and Management (IITRAM) has been established by the Government of Gujarat as an Autonomous University and has been mandated 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, and the Institute has a vision of acquiring a status of National importance in Infrastructure and related areas.

Theme of the workshop
This workshop explores the integration of smart technologies into campus environments, with a particular focus on optimizing mess (dining) and healthcare services. Participants will engage with the design and implementation of digital platforms that streamline food distribution, track attendance in the mess, collect student feedback, manage appointment systems, maintain digital health records for students and staff, and oversee medicine inventory. Through case studies, hands-on tools, and collaborative projects, the workshop aims to equip learners with the skills needed to develop efficient, data-driven, and user-friendly systems that enhance campus life, improve operational transparency, and support the overall well-being of the campus community.

Objective
The primary objective of this workshop is to equip participants with the knowledge and skills required to design, develop, and implement smart digital solutions for effective mess (dining) and healthcare management within a campus setting. The workshop aims to:

- Introduce the concept of Smart Campus ecosystems and their key components.
- Provide insights into current challenges and opportunities in campus mess and healthcare operations.

Coordinators:
Dr. Kumar Abhishek
Kumarabhishek@iitram.ac.in

Patrons:
Prof. P.K. Jain
(Director General, IITRAM)
Prof. M.K. Barua
(Director, IITRAM)

Workshop Coordinator:
Dr. Kumar Abhishek
Department of Mechanical and Aerospace Engineering, IITRAM, Ahmedabad

Workshop Students Team:

1. Manish Kumar
2. Hemanshu Tala
3. Satyam Kumar

Last date of Registration:
July, 20, 2025

Scan for Apply



Link for Registration:



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Express...Connect...Grow...



This interactive session will focus on turn emotions & thoughts into strength. This activity is on with music and cheerful enjoyment, designed to promote healthy emotional expression and overall well-being among students.

This event will provide a safe and supportive platform where students can understand their emotions, share experiences, and learn practical ways to express feelings constructively. It improves emotional well-being and encourage academic growth.

Facilitator: Ms. Shaheen Pathan (Counselor)

12 February
2026

05:00 pm
onwards

L-205 Second
Floor



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NABL ACCREDITATION AWARENESS PROGRAM
GUNVATTA YATRA: AWARENESS PROGRAM ON "NABL ACCREDITATION AND ITS BENEFITS"

ABOUT SPEAKER



DR. BHUMI RAJYAGURU
Jt. Director,
NABL - QCI Ahmedabad

ABOUT THE PROGRAM
WHO WE ARE:
NABL as an accreditation body complies to ISO/IEC 17011: 2017 and is a full member (signatory) to Asia Pacific Accreditation Cooperation (APAC) and International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA).

WHAT WE DO:
NABL provides impartial, third party accreditation services to Conformity Assessment Bodies (CABs):

- Testing and Calibration Laboratories as per ISO/IEC 17025
- Medical Testing Laboratories as per ISO 15189
- Proficiency Testing Providers (PTP) ISO/IEC 17043
- Reference Material Producers (RMP) as per ISO 17034
- Biobanks as per ISO 20387

DELIVERABLES
About NABL
Accreditation Process
Benefits of NABL Accreditation

WHO CAN PARTICIPATE
Diagnostic Laboratories
Testing laboratories
Hospitals based laboratories
Medical Organisations

CONTACT
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Mo. +91-8010503031

Coordinators: Dr. Jiten Shah, Dr. Pravin Jadhav

08 September
2025

11:30 am
onwards

S-101 First Floor
IITRAM

EVENTS HIGHLIGHTS

INVITED TALKS ON

The Iwahori mod p LLC

ABOUT SPEAKER



Prof. Eknath Ghate
School of Mathematics,
TIFR, Mumbai.

About the Speaker: Professor Eknath Ghate is currently at the Tata Institute of Fundamental Research (TIFR) serving as a senior professor in the School of Mathematics. He is a fellow of the Indian National Science Academy and Indian Academy of Sciences. He has been awarded the Shanti Swarup Bhatnagar Award for Mathematical Sciences.

Over the last decade, Professor Ghate's research has been dedicated to computing the reductions of local two-dimensional Galois representations. This work has been in collaboration with several mathematicians. Both crystalline and semi-stable cases have been considered. Professor Ghate proved his zig-zag conjecture on the reductions of crystalline representations of large exceptional weights and half-integral slopes. This uncovers a surprising alternating pattern of irreducible and reducible reductions.

Abstract: Langlands Correspondences connect algebra and analysis. More precisely, they connect n -dimensional representations of the Galois group and infinite-dimensional representations of the general linear group of size n . We will stick to the Local case where the base field is the field of p -adic rational numbers and the representations are defined over a field of characteristic p . This is referred to as the mod p Local Langlands Correspondence or mod p LLC.

The case $n = 1$ is class field theory. The case $n = 2$ was proposed about two decades ago by Breuil and made functorial by Colmez. In this talk, we will reformulate the statement of the mod p LLC using the language of Iwahori induction and some natural operators on the edges of a famous graph, namely, the Bruhat-Tits tree.

This series of 2 lectures is based on work of A-B--C (Anandavardhanan-Borisagar and Chitrao).


30, 31 Aug 2024

10 am onwards

S-101 First Floor




INSTITUTE OF INFRASTRUCTURE, TECHNOLOGY, RESEARCH AND MANAGEMENT




INSTITUTE OF INFRASTRUCTURE, TECHNOLOGY, RESEARCH AND MANAGEMENT (IITRAM)
(An Autonomous University established by Government of Gujarat)

Department of Electrical & Computer Science Engineering Organizes



ONE DAY

WORKSHOP ON EMULATION OF SOLAR PV/BATTERY TECHNOLOGY



03 February 2026

10:30 am onwards

L-406 Fourth Floor



REPERTUS

PROGRAMS

- ♥ ANSYS Techday
- WORKSHOPS**
- ♥ STAAD Pro,
- ♥ Autodesk Revit
- ♥ Primavera P6,
- ♥ Microsoft Excel
- COMPETITIONS**
- ♥ Kaun Banega Civil Engineer,
- ♥ Civil Diaries (Short Film)
- ♥ Dijkstra Dash
- ♥ Urban X (City Planning)
- ♥ GeoVolt Challenge (QGIS)
- ♥ Ecostruct
- ♥ CAD Sprint
- ♥ Construction of Spaghetti Structures
- ♥ Bricnomics
- ♥ Detect the Defect
- ♥ Constructoons
- ♥ InfraScape
- CULTURAL EVENT**
- ♥ SPIC MACAY





Total Prize Pool 2 lakhs +

12 - 14 March, 2026

10:00 am onwards

Venue: IITRAM, Campus

Email: repertus@iitram.ac.in

For Further Details





INSTITUTE OF INFRASTRUCTURE, TECHNOLOGY, RESEARCH AND MANAGEMENT
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INSTITUTE OF INFRASTRUCTURE, TECHNOLOGY, RESEARCH AND MANAGEMENT (IITRAM) AHMEDABAD

Congratulations

Proud Moment for HSS Department Three students from the Discipline of English, HSS Department have been selected for the prestigious **SHODH Fellowship**.

Hearty congratulations on this remarkable achievement !



Ritu Panchal



Sanjukta Samanta



Rushali Vaishnav

INAUGURATION OF IITRAM RESIDENTIAL CAMPUS

IITRAM newly constructed **Girls' Hostel, Boys' Hostel, and E-1 Type Staff Quarters** was inaugurated by **Shri Rushikesh Patel**, Hon'ble Cabinet Minister, Government of Gujarat on 14th July 2025. Shri Mukesh Kumar, IAS, Principal Secretary, Education Department, Government of Gujarat, was the Guest of Honor. The residential campus is spread across 2.75 acres, and includes a **Boys' Hostel** with **344 rooms**, a **Girls' Hostel** with **96 rooms**, and **56 Faculty Quarters (3 BHK flats)**. Additionally, the complex also has **28 rooms for Guest House**. The residential campus is equipped with modern facilities such as a swimming pool, reading room, entertainment room, and dedicated study areas.



Girls Hostel



Boys Hostel

Staff Quarters






INSTITUTE OF INFRASTRUCTURE, TECHNOLOGY, RESEARCH AND MANAGEMENT

(An Autonomous University established by Government of Gujarat)


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