

IITRAM NEWS

A quarterly Newsletter of IITRAM, Ahmedabad

INSTITUTE HIGHLIGHTS

Republic Day Celebration

IITRAM celebrated the **77th Republic day** on January 26, 2025, with great enthusiasm and pride on its campus. The celebrations commenced with the unfurling of the National Flag and address by the Director General Prof. P. K. Jain, IITRAM in the presence of faculty members, staff, and students. The event was followed by a cultural programme organized by the SAC.

Alumni Meet 2026

Alumni Relations, organized **Sansmaran 2.0: Alumni Meet 2026** on 22.03.2026 at the IITRAM campus. The event witnessed enthusiastic participation from alumni, faculty members, and students, fostering a strong sense of connection and community. Alumni shared experiences and memories, reflecting on their journey at IITRAM and professional growth.

MoU with Institute of Plasma Research

IITRAM and Institute of Plasma Research (IPR) Gandhinagar, have signed **MoU** to strengthen academic collaboration and research partnerships. The MoU was signed by Director General Prof. P. K. Jain from IITRAM and Director Prof. Tapas Ganguli from IPR.

SIRO Recognition

Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India, has accorded recognition to IITRAM, Ahmedabad, as a Scientific & Industrial Research Organization (SIRO). The recognition is valid from 25 February 2026 to 31 March 2028. This recognition entitles IITRAM to administrative support and other benefits from DSIR aimed at promoting and strengthening scientific research activities across departments.

LECTURES, WORKSHOPS, CONFERENCES, STTPs

The Department of Mechanical and Aerospace Engineering organized the **3rd International Conference on Futuristic Advancements in Materials, Manufacturing and Thermal Sciences (ICFAMMT-2026)** during 16.01.2026 to 18.01.2026.

The event saw 295 participants, 246 research papers, 11 keynote lectures, and 19 invited talks by eminent experts from Japan, Malaysia, the UK, and India.



The Department of Electrical and Computer Science Engineering and COE-CADT organised a one-week STTP sponsored by GUJCOST on **Robust Control of Autonomous Vehicles: Theory to Practice** during 19.01.2026 to 23.01.2026. Prof. Asokan Thondiyath, IIT Madras, graced the event as Chief Guest.

The Cyber Club IITRAM, supported by CAWACH Kendra, Government of Gujarat, organized a two-day workshop during 30.01.2026-31.01.2026 on **Infrastructure Cybersecurity**. Researchers, industry professionals, and practitioners deliberated on emerging threats and innovations in securing critical digital and physical infrastructures.



The Department of Civil Engineering in collaboration with Gujarat Urban Development Institute (GUDI) organized a three-day STTP on **Urban Air Quality: Monitoring, Modelling and Mitigation** during 25.02.2026 to 27.02.2026 for practicing engineers across municipal corporations in Ahmedabad.

Career Development Centre IITRAM organized **UDGAM IAC 2026 - Industry Academia Conclave**

during 27.02.2026 to 28.02.2026. The event brought together industry leaders and academic professionals to strengthen collaboration, explore emerging opportunities, and bridge the gap between academia and the professional world. Dr. Sunil R. Parekh, SPoC Sustainability, Zydus Group and Strategic Advisor, Jubilant Bhartia Group, graced the Inaugural event as the Chief Guest.



The Internal Complaints Committee IITRAM organized a session on **The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013** on 09.03.2026. Ms. Amrita Patel, Advocate, Gujarat High Court and NCLT, delivered practical insights into workplace sexual harassment prevention, fostering a culture of mutual respect and professional security.

Dr. Jawar Singh, Professor of Electrical Engineering, IIT Patna, delivered an expert talk on **Five Layers of AI: From Apps to Hardware Infrastructure** offering participants a comprehensive understanding of AI's technological ecosystem across its multiple layers on 13.03.2026.

FACULTY NEWS

Dr. Krupa Shah, Assistant Professor, Department of Electrical and Computer Science Engineering, was honoured among the Top 16 Women Entrepreneurs from 1,100+ entries at her START 4.0 by Gujarat University Startup and Entrepreneurship Council (GUSEC). Felicitated by CM Shri Bhupendrabhai Patel, she was recognized for development of a bone biopsy device, developed in collaboration with Dr. Raghavendra



Bhalerao, Assistant Professor, Department of Electrical and Computer Science Engineering and Dr. Abhijeet Salunke (Onco Ortho Surgeon, GCRI).

Dr. Sumit Tripathi, Assistant Professor, Mechanical and Aerospace Engineering, received the "Young Scientist Award" by the Society for Agricultural Research & Management (SARM) at the 8th International Conference on Sustainable Agriculture for Food Security (Agri Vision 2026), held from 28.01.2026 to 30.01.2026, at ICAR-Central Horticultural Experiment Station (ICAR-CHES), Bhubaneswar, Odisha.



SPONSORED PROJECTS

Dr. Ajit Kumar Parwani, Associate Professor, Department of Mechanical and Aerospace Engineering, **Dr. Ravi Kashikar**, Assistant Professor, Department of Basic Sciences, and collaborators from other institute have secured a project titled "Design and Development of a Carbon Capture Prototype for Sustainable Transport Sector". The project is funded by Gujarat Energy Development Authority, GoG.

PATENTS GRANTED

Integrated Transtibial Prosthetic Limb: Inventors include Dr. Ganesh Iyer, Assistant Professor, **Dr. Kumar Abhishek**, Associate Professor, Tarun Rijwani, Research Scholar in the Department of Mechanical and Aerospace Engineering, and co-inventors from other institutions. The Design Patent Number is 487057-001 granted on 12.03.2026.

CNC Resistive Continuous Profile Welding: Inventors include **Dr. Kumar Abhishek**, Associate Professor, Department of Mechanical and Aerospace Engineering, and co-inventors from other institution. The Patent Number is 581756 granted on 26.02.2026.

Six Design Patents: Polymer Encapsulated Closed-Cell Metallic Foam Brick (Design No. 471265-001, issued on 01.01.2026), Polymer-Layered Metallic Foam Front Bumper (Design No. 471267-001, issued on

13.01.2026), Floating Monofacial Solar Photovoltaic Assembly on a Metallic Foam Platform (Design No. 473957-001, issued on 15.01.2026), Metallic Foam Thermal Insulated Container (Design No. 475598-001, issued on 15.01.2026), Prefabricated Metallic Foam Decorative Ceiling Tile (Design No. 475602-001, issued on 12.02.2026), Humeral Bone Implant Using Metallic Closed-Cell Sandwich Foam (Design No. 446279-001, issued on 12.03.2026) Inventors include **Dr. Pramod Bhingole**, Associate Professor, **Mr. Shah Manan Haren**, Research Scholar, and **Dr. Dhaval Makwana**, PhD, from the Department of Mechanical and Aerospace Engineering, IITRAM.

STUDENT ACHIEVEMENTS & ACTIVITIES

Students achievements

IITRAM undergraduate team **Husain Lokhandwala**, **Adidev Shah**, **Falgun Baria**, and **Dhyan Patel** enrolled in the Minor in Drone Technology program has been shortlisted for the Qualification Round of IROc-U 2026 an ISRO Robotics Challenge organised by U R Rao Satellite Centre, ISRO, Bengaluru. Their proposal mentored by Dr. Ajit Kumar, Assistant Professor, Mechanical and Aerospace Engineering was among the top contenders. The same team won a cash prize of ₹2,00,000 at **Robofest Gujarat 5.0** for their innovative project on Aerial Minefield Navigation.



Dhruv Mulani, third year and **Krish Kavathiya**, fourth year undergraduate students, secured Rank 1 and Rank 3, respectively at GLS Cyber Shadz 2026, held at GLS University, Ahmedabad, during 12.02.2026 to 13.02.2026.



Shivesh Singh, undergraduate student, achieved 3 Position, winning a prize of ₹10,000, in the Autonomous Maze Solver event at Drobotics Conclave 2026 held at Adani University during 30-31.01.2026.

Manan Shah, Doctoral Scholar, secured the First Prize (₹25,000), and **Daksh and Vishwa Parmar**, undergraduate students secured the Second Prize (₹15,000) in "Pitch Your Ideas" competition at UDGM-IAC 2026, IITRAM.

Technical events @IITRAM

The SAC organized a session on **Robo Soccer – How to Build** on 22.01.2026. Students gained hands-on insights into hardware components, control mechanisms, and basic programming, fostering innovation and practical interest in robotics.

The SAC organized a session on **Data Science: From Curiosity to Career** on 29.01.2026. The session provided valuable insights into the journey of building a career in data science, covering key concepts, required skills, and industry opportunities.

The SAC organized a session on **Machine Learning: From Basics to Breakthroughs** on 12.02.2026. Students were introduced to core ML concepts and advanced applications, inspiring them to explore this rapidly evolving field and its real-world impact.

The Department of Civil Engineering organized **Repertus 2K26**, the institute's National Level Civil Engineering Tech Fest, during 12.03.2026 to 14.03.2026. Participants from several institutions across Gujarat took part in events focused on innovation, technical problem-solving, and sustainable infrastructure practices. Repertus 2K26 also featured a cultural evening organized in collaboration with SPIC MACAY, celebrating India's classical heritage.



The SAC organized the Annual Technical Fest **FLUX 2.0** from 27.03.2026 to 29.03.2026. The event brought

together 286 registered teams with over 400 participants from different institutes and included events such as: robotics, coding, electronics, engineering design, and beyond, including a Hackathon, Youth Parliament, RoboSoccer, IoT Challenge, CAD Challenge, UI/UX Challenge, and Drone Simulation. Guest lectures, hands-on workshops, and live demonstrations further enriched the experience, making FLUX 2.0 acceleration of technical excellence, creativity, and the innovative spirit of IITRAM.



A session on **Internet of Things (IoT)** was organized by the SAC on 14.03.2026. Students explored IoT fundamentals, including interconnected devices, sensors, and real-time data communication, along with practical applications across various domains, making it an engaging learning experience.

Social events @IITRAM

SAC conducted **Cloth Donation Drive** on 26.01.2026 aimed at supporting underprivileged communities. On the occasion of Republic Day, the team distributed clothes to those in need.

Sports events @IITRAM

Pratyancha the **Annual Sports Fest** was organized by the SAC during 06.02.2026 to 08.02.2026. The event featured cricket, football, volleyball, badminton, and athletics, drawing enthusiastic participation.



Intra IITRAM Kabaddi League (IIKL) was organized by the SAC during 30.01.2026 to 01.02.2026. Held over three days, the league brought together students

for competitive kabaddi matches, showcasing strength, strategy, and teamwork while enriching the institute's vibrant sports culture.

Events @IITRAM

The Counselling Centre IITRAM organized a session on **Managing Emotions** on 20.01.2026. The session focused on helping students understand and regulate their emotions effectively, offering practical strategies for stress management, emotional awareness, and mental well-being.

A Mindful Journaling for a Healthy Mind and Body was organized by the Counselling Centre on 05.02.2026. The session introduced the practice of mindful journaling as a tool for enhancing mental well-being, self-awareness, and emotional balance.

The Counselling Centre organized an interactive session titled **Express-Connect-Grow** on 12.02.2026. Students were encouraged to express themselves openly, build meaningful connections, and develop stronger communication and emotional skills in a safe, supportive environment.

In collaboration with AMC Dental College and Hospital, Ahmedabad, a **Dental Camp** was organized on 27.02.2026. The camp offered free dental check-ups, consultations, and oral hygiene guidance, promoting overall health and well-being among students.





The Counselling Centre organized a session on **Stress Management** on 25.03.2026. Students explored common stress triggers and learned practical techniques including relaxation methods and time management strategies to maintain a balanced and healthy lifestyle.

PH.D. THESES DEFENDED

Prashant Khanna, Doctoral Scholar, Department of Mechanical & Aerospace Engineering, under the supervision of Dr. PL Ramkumar defended his Ph.D. thesis titled "Development and Characterization of Linear Low Density Polyethylene Composites Reinforced with Untreated and Treated Peanut Shell Powder for Rotational Molding" on 02.02.2026.

Dhruvrajsinh Rana, Doctoral Scholar, Department of Humanities and Social Sciences, under the supervision of Dr. Meera Vasani defended his Ph.D. thesis titled "Orature and Folklores of Panchmahal Bhil of Gujarat: An Ethnographic Study" on 11.03.2026.

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