

IITRAM NEWS

A quarterly newsletter of IITRAM, Ahmedabad

INSTITUTE HIGHLIGHTS

Republic Day Celebration

IITRAM celebrated the 74th Republic Day on Jan. 26, 2023. The celebration commenced with the hoisting of the national flag by Prof. Amit Prashant, Officiating Director General. This was followed by singing the national anthem and reciting patriotic poems and speeches. The Dayatva team performed a street play on cleanliness.



Open House

Office of Outreach Activities, IITRAM held an Open House event on March 29, 2023 for over 500 students, parents, and teachers, showcasing their advanced facilities, Centers of Excellence, and promoting STEM education through interactive activities. The institute offered immersive learning opportunities to visitors through live experiments, scientific demonstrations, and exhibitions. They showcased facilities from all five Centers of Excellence, including workshops and drones, in addition to their regular Science and Engineering labs.



Women's Day Celebration

The Women's Development Cell (WDC) IITRAM hosted and organized a panel discussion on **Innovation and Technology in Digital Age** as a part of International Women's Day celebration on March 06, 2023. The event was attended by guests from various fields, including science, engineering, and finance. The speakers for the panel were Ms. Kanika Jakhar, Scientist/Engineer ISRO; Dr. Rama Gaur, Assistant Professor, Department of Chemistry Pandit Deendayal Energy University; Mr. Tejas Belani, Principal Engineer (Geotechnical) Civil and Structural Department at Air Products Vadodara and Ms. Maitry Shah, a Wealth Manager at Lakshme.



MoU with Oroscan

The Center of Excellence (CoE) in Artificial Intelligence and Machine Learning has signed an MoU with Oroscan, a premier oral diagnostics center in Ahmedabad on March 08, 2023. The MoU will enable IITRAM to access oral CT scan data seamlessly and develop algorithms for dental deformation detection. This will pave the way for research issues that dentists and radiologists still face for proper diagnosis of radiographs with AI-enabled tools.



Participation in the Science Carnival

IITRAM participated in the Science Carnival at Science City during Feb. 28, 2023 to March 04, 2023. The event was coordinated by the Office of Outreach Activities, IITRAM and various informative sessions were planned on **Science and Mathematics using low-cost materials and tools** for school students.



FACULTY NEWS

Patents Granted

Bone and Bone Marrow Biopsy Device Having Force Balancing Mechanism, Inventors include **Dr. Raghavendra H Bhalerao** Assistant Professor, Electrical and Computer Science Engineering, **Dr. Krupa Shah**, Assistant Professor, Electrical and Computer Science Engineering, and co-inventor from other institutes. The patent number is 425660 granted on 17.03.23.

Self-Sustainable Watering System and Method for Roadside and Median Plantations, Inventors include **Priyank Trivedi**, Ph.D. Scholar, Civil Engineering, **Khushbu Bhatt**, Ph.D. Scholar, Civil Engineering, **Dr. Jiten Shah**, Assistant Professor, Civil Engineering. The Patent Number is 419425 granted on 27.01.23.

Vehicle Journey Data Acquisition and Control System, Inventors include **Dr. Jiten Shah**, Assistant Professor, Civil Engineering, **Dr. Dipankar Deb**, Professor, Electrical and Computer Science Engineering, **Dadi Yashvant**, B.Tech Alumnus, **Jashvi Mehta**, B.Tech Alumnus and Deep Patel, B.Tech Alumnus. The Patent Number is 421098 granted on 09.02.23.

Patents Filed

Method of Preparing Soil and Geomaterial Specimens for Suction Testing at Slurry-To-Drying Stages, Inventors

includes **Ram Wanare**, Ph.D. Scholar, Civil Engineering, **Mahi Patil**, Ph.D. Scholar, Civil Engineering and **Parishi H. Dalal**, Ph.D. Scholar, Civil Engineering, **Dr. Kannan K. R Iyer**, Assistant Professor, Civil Engineering. (Application number: 202321018770), Filed Date: 20th March 2023. Published date: 21st April 2023.

Sponsored and Consultancy Project

Dr. Ramnarayan Yadav Assistant Professor, Electrical and Computer Science Engineering secured a project titled "**Adaptive Spray Drone in Agriculture for Crop Disease Management using Deep Learning**" for the CHANAKYA Fellowship program 2022-23 at TIH IoT, IIT Bombay.

Book Published

Mithilesh K. Dikshit, Assistant Professor, Mechanical and Aerospace Engineering along with others edited Book "**Futuristic Manufacturing Perpetual Advancement and Research Challenges**" by CRC Press, Taylor and Francis.

<https://doi.org/10.1201/9781003270027>

Workshop and Conference Organized

Dr. Gautam Choubey, Assistant Professor, Mechanical & Aerospace Engineering, organized short talks on March 20, 2023 on the topics "**Spacecraft Thermal Management: Current Trends and Advances**" by Vivek Kumar Singh, Scientist/Engineer-SF, Thermal Engineering Division, Space Applications Centre, ISRO Ahmedabad and "**Deep learning approaches for Atmospheric Corrections**" by Ulkesh B Desai, Sci/Engr-SG, Head MMDD, Space Applications Centre, ISRO Ahmedabad.

EVENTS @IITRAM

The Career Development and Promotion of Innovation and Industrial Research (CDPIIR) IITRAM organized series of informative sessions on various national and international aptitude tests such as GRE, GMAT, CAT and GATE. The various events under CDPIIR include GRE; Profile building for graduate studies; Resume building and Interview cracking techniques; Session on Fulbright-Nehru, Fulbright-Kalam, and other Fulbright fellowships and Mission GATE: Tips, Techniques & Strategies to crack GATE.



Dr. Jiten Shah, Assistant Professor, Civil Engineering, organized an awareness program by holding a **Road Safety Walk** during Road Safety Week on Jan. 17, 2023.

The Technical Team of IITRAM organized its first technical event of this semester **Race 'O' Mania**, Remote Control (RC) Car Racing Competition. The event was held on Jan. 28, 2023.



STUDENT CHAPTER

Awards and Recognitions

- **Sarv Verma**, B.Tech. Final Year, Department of Electrical and Computer Science Engineering, secured 4th rank in Instrumentation and 5th rank in Electrical Engineering in GATE - 2023.



- **Sudhanshu Vikram Singh**, Ph.D. Scholar, Department of Basic Sciences, has been selected for the post of Statistical Officer in Planning Department, Govt. of NCT of Delhi, Union Public Service Commission.



Know Your Alumni Series

Alumni Relations at IITRAM has taken the initiative to foster alumni interaction by organizing engaging event called "Know Your Alumni". The first event was held on Feb. 04, 2023 which featured two notable alumni Mr. Amit Kumar (B.Tech. 2013-2017) Assistant manager (Powergrid Corporation of India) and Mr. Shre Soni (M.Tech. 2016-2018) Assistant Municipal Commissioner at AMC. The second event was held on March 18, 2023, featuring two accomplished alumni Mr. Shreyansh Shukla (B.Tech. 2014-2018) Deputy Executive Engineer, Government of Gujarat and Mr. Kirtan Doshi (B.Tech. 2013-2017) Manager, Adani Accelerated Leader at Adani Ports and SEZ.

- **Harsh Jadav**, B.Tech. Alumnus, Department of Civil Engineering, received C. M. Raval (c/o Raval and Raval) GICEA Gold Medal for B.Tech Civil Engineering.
- **Manthan Dhavne**, M.Tech. Alumnus, Department of Civil Engineering, received RJD Buildcon Ltd – GICEA Gold Medal for M.Tech Civil Engineering (Urban Infrastructure). The medals were awarded by the Gujarat Institute of Civil Engineers and Architects (GICEA).



- **Jay Dinesh Maganadiya**, B.Tech First Year, Department of Electrical and Computer Science Engineering, received the Rajya Puraskar Award as a Scout from The Bharat Scouts and Guides. The award was presented by the former Governor, Govt. of Gujarat, Shri. O. P. Kohli.



- **Lalit Kumar**, B.Tech. Department of Civil Engineering, won second place in PDEU weightlifting competition.

STUDENT ACTIVITIES

Mini-Budget Parliament

Economics club IITRAM organized Mini-Budget Parliament on Feb. 02, 2023. The participants formed political parties and contested elections to elect the ruling and opposition party. They presented the union budget in the parliament for discussion and debate, providing a valuable learning experience in politics and economics.



Events by Cultural Chapter

The Cultural Chapter organized various events celebrating culture and education, including a musical performance on Traditional Day on Jan. 30, 2023, "Kolahaal - The Talent Bizz" on Feb. 13, 2023 for showcasing various talents and the Art Conclave "Kalakriti" for art enthusiasts.



Events by Sports Chapter

The IITRAM Sports chapter organized Intra-IITRAM volleyball championship (IIVC '23) from Jan. 16-21, 2023, Intra-IITRAM Kabaddi League (IIKL'23) from Jan. 23-26, 2023 and Intra IITRAM E-Sports Tournament from Mar. 20-26, 2023. Several teams participated in these tournaments.



GET IN TOUCH

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