



INSTITUTE HIGHLIGHTS

Campus Capacity Expansion Initiative

On September 17, 2025, IIT Indore hosted the Foundation Laying Ceremony for its Capacity Expansion Infrastructure Projects, marking a major milestone in its pursuit of academic and research excellence. The event was graced by Prime Minister Shri Narendra Modi (virtually) and Shri Tulsī Silawat, Madhya Pradesh Cabinet Minister, Department of Water Resources. Envisaged at an outlay of ₹624.57 crore, the Phase III B & C projects include state-of-the-art academic facilities such as Academic PODs, a Lecture Hall Complex, an Industrial Research Park, and the Department of Design. The expansion also envisions modern residential facilities—Residential Complex, Studio Apartments, and Visitors' Hostel—along with shared amenities such as the Student Activity Centre, Allied Services, and advanced research infrastructure.



Additionally, a state-of-the-art Animal Research Laboratory was inaugurated on September 4, 2025, by Padma Bhushan Prof. Padmanabhan Balaram (Former Director, IISc Bengaluru) in the presence of Director Prof. Suhas S. Joshi. Campus amenities were further enhanced with the inauguration of Yewale Amruttulya Tea Outlet by Prof. Amod C. Umarikar (DoSA), Shree JC Fruits and Vegetables Outlet by Dr. Kalandi Charan Pradhan (Dining Warden), and the groundbreaking of three electrical substations (ESS 01, ESS 03, ESS 08) by Director Prof. Suhas S. Joshi in recent days.

Institute Delegation Visit to Singapore

From September 21 to 24, 2025, a delegation from IIT Indore, led by Director Prof. Suhas S. Joshi, visited Singapore to explore academic and research collaborations. The delegation had the honour of meeting His Excellency Dr. Shilpak Ambule, High Commissioner of India to Singapore, where discussions centered on strengthening partnerships between IIT Indore and leading Singaporean universities.



NIRF Ranking 2025

IIT Indore has witnessed remarkable progress in its national standing in 2025. The institute has ascended to the 12th position in the Engineering category of the National Institutional Ranking Framework (NIRF), a significant leap from its previous rank of 16. It now also holds the 24th position in Research and 27th Overall, reflecting its consistent growth across key academic and research indicators.

Placement Orientation Session

On September 15, 2025, the Training and Placement Cell organized a Placement Orientation Session for the final-year batch. Graced by Director Prof. Suhas S. Joshi and Dr. Ankur Miglani, Placement Professor-in-Charge, the interactive session motivated students and provided insights into the upcoming placement season. It covered IIT Indore's strategies, timelines, registration guidelines, and revised placement policy, along with analysis of past statistics, industry trends, and expectations. Challenges from previous seasons and key learnings were discussed. The session concluded with students sharing feedback, fostering collaboration and transparency.



हिंदी पखवाड़ा 2025

भारतीय प्रौद्योगिकी संस्थान इंदौर में हिंदी पखवाड़ा-2025 का सफल आयोजन 16 से 29 सितंबर, 2025 तक किया गया। राजभाषा हिंदी के संवर्धन के उद्देश्य से आयोजित इस पखवाड़े के अंतर्गत काव्य पाठ, निबंध लेखन, कहानी पाठ, विज्ञान पोस्टर एवं क्विज़ जैसी विविध प्रतियोगिताएँ संपन्न हुईं। प्रतिभागियों ने उत्साहपूर्वक भाग लेते हुए हिंदी के प्रति अपनी सृजनात्मकता और निष्ठा का परिचय दिया। पखवाड़े के समापन अवसर पर 29 सितंबर 2025 को आमंत्रित कवि राजेश कुमार, पंकज दीक्षित, धीरज चौहान, एवं कान्ताप्रसाद कमल की उपस्थिति में काव्य सम्मेलन तथा पुरस्कार वितरण समारोह आयोजित किया गया।



AgriConnect Workshop

A two-day workshop was held at IITI from September 15-16, 2025, aiming to bridge the gap between Indian farmers and cutting-edge technologies. The workshop, jointly organized by IITI ICAR-NSRI Indore, ICAR-CIAE Bhopal, and C-DAC Pune, sought to provide a collaborative platform for farmer-producer organisations (FPOs), NGOs, researchers, and innovators to exchange knowledge, share best practices, and explore avenues for collective growth; and to help build pathways for outreach deliverables at a grassroots level. Key objectives of the event included harnessing digital technologies, AI/ML tools, and Big Data analytics to empower farmers and co-developing scalable, sustainable, and inclusive solutions to address key agricultural challenges.



National Workshop on Mobile Toilet Management

On October 1, 2025, IIT Indore, in collaboration with the Bureau of Indian Standards (BIS), hosted a first-of-its-kind National Workshop on Mobile Toilet Management to chart an evidence-based roadmap for safe, inclusive, and sustainable sanitation at scale. The day-long conclave brought together experts from academia, industry, and policy to examine current practices, align standards, and propose solutions for high-footfall contexts and urban service delivery. Dr. Ashootosh Mandpe presented the TEES Framework, integrating Technical, Economic, Environmental, and Social dimensions. It emphasized dignity-centered design, sustainable business models, on-site segregation, decentralized treatment, circular materials, gender-sensitive deployment, trained female staff, and user-trust mechanisms.

The workshop was inaugurated by Director Prof. Suhas S. Joshi, with distinguished participation from Mr. Suneel Kumar Arora (Former Advisor, Ministry of Jal Shakti, GoI), Dr. Sunil Kumar (CSIR-NEERI), Prof. B. K. Dubey (IIT Kharagpur), Dr. Shruti Tewari (IIM Indore), Dr. Saurabh Sakhre (NIIST), among other dignitaries. Two thematic sessions covered design, deployment, governance, and policy. The workshop concluded with the felicitation of over 80 participants, affirming IIT Indore's leadership in sustainable sanitation innovation.



Teachers' Day

IIT Indore celebrated Teachers' Day 2025 with warmth and gratitude. The event was graced by Padma Bhushan Prof. Padmanabhan Balaram, eminent biochemist and former Director of IISc Bengaluru, as the Chief Guest. In his keynote address, Prof. Balaram highlighted the enduring role of teachers in nurturing curiosity and fostering scientific inquiry, emphasizing that rigor, humility, and mentorship form the foundation of higher education.



The celebration also featured the announcement of the Best Teachers Award 2025. The awardees were Prof. Abhinav Kranti (Electrical Engineering) in the Large Batch category, Dr. Onkar Game (Physics) in the Medium Batch category, and Dr. Bibekananda Maji (Mathematics) in the Small Batch category. Dr. Priyank J. Sharma (Civil Engineering), Dr. Hemant Borkar (MEMS), and Prof. Rajesh Kumar (Physics) received honorary mentions for excellent feedback performance.



Workshop on AI and Disaster Management

On September 15, 2025, the DST-Centre for Policy Research at IIT Indore organized a workshop on “AI and Disaster Management”, bringing together 67 participants, including policymakers, researchers, and industry experts. The keynote address by Prof. Vinod Kumar Gaur, eminent seismologist, emphasized resilience through preparedness, data-driven design, and the role of causal AI in hazard prediction. Technical sessions by Profs. Abhirup Datta and Puneet Gupta showcased AI applications in search and rescue operations and environmental hazard detection, while Mr. Shivukumar Rakkasagi and Mr. Vijay Jain presented insights on drought and flood risk monitoring.



IEEE CIS High School Outreach Program

IIT Indore hosted India's first-ever IEEE CIS High School Outreach Program on September 27, 2025, organized under the IEEE CIS Chapter – MP Section and coordinated by Prof. M. Tanveer. Over 150 students and teachers from 10+ schools participated in the event themed “Foundations of Machine Learning & Artificial Intelligence and Its Impact on Society.” The day featured engaging lectures by experts, live demonstrations by the Cynaptics Club and OPTIMAL Lab, and interactive sessions introducing students to AI and ML fundamentals. The initiative aimed to ignite curiosity, foster learning, and showcase the transformative potential of artificial intelligence in shaping the future.



RASTAA 2025

IIT Indore, in collaboration with the Aeronautical Development Establishment (ADE)-DRDO, Bengaluru, and the IEEE Antennas and Propagation Society (AP-S) Madhya Pradesh Section, successfully organized the National Workshop on “Recent Advancement in Stealth Technologies for Airborne Applications” (RASTAA-2025) on September 18–19, 2025, at the IIT Indore campus. Convened by Dr. Saptarshi Ghosh (IIT Indore) and Dr. Vijay Kumar Sutrakar (ADE-DRDO), the workshop brought together over 150 participants, including faculty, research scholars, and professionals from DRDO, CSIR, RRCAT, HAL, MCT, IITs, NITs, and BITS. Featuring over 15 invited talks and industry exhibitions, it explored electromagnetic stealth, radar cross-section reduction, metamaterials, antenna systems, radomes, and additive manufacturing.



STUDENT HIGHLIGHTS

IBCC

The sixth edition of the Inter-Branch Cultural Clash (IBCC 6.0) was held from September 5 to 7, 2025. Departments formed contingents and competed across multiple events in music, literature, debate, gaming, fashion, art, and dance. Students participated actively, showcasing their skills and creativity in each domain. The event aimed to highlight the diverse talents of the student community and promote a sense of collaboration and team spirit.



Engineers' Day

On the occasion of Engineers' Day on September 15, 2025, the Electrical Engineering Students' Association (EESA) conducted a talk by Prof. Ram Bilas Pachori on "Research vs Industry," offering valuable guidance on research methodology, career pathways, and effective technical communication.



MathVenture 2025

The students of the Department of Mathematics, IIT Indore, organized MathVenture 2025 on October 12, 2025. The outreach event, designed for school students of Classes 9–12, featured a mathematics olympiad, interactive activities, and insightful sessions. The day concluded with a prize distribution ceremony recognizing the participants' enthusiasm and performance.



Serenity – The Carnival

The Counselling Cell, IITI, organized Serenity – A Carnival to Celebrate Mental Health Day on October 11, 2025. The event featured food stalls, games, open-mic sessions, and performances, fostering awareness and dialogue on mental well-being while encouraging relaxation, creativity, and community bonding across the campus.



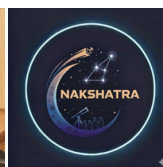
Workshop on Fusion 360

On September 13, 2025, the Biocrats Club organized a hands-on workshop on Autodesk Fusion 360. Conducted by Dr. Hitendra Kumar, Assistant Professor, Mehta Family School of BSBE, the session introduced participants to 3D modeling, simulation, and design essentials, encouraging creativity, innovation, and practical skill development among students.



Nakshatra 2025

Nakshatra 2025, organized by the Astronomy Club in collaboration with the DAASE, was held on October 12, 2025. The event featured an expert talk by Prof. Abhirup Datta, Dean of Research and Development. It also included a Space-Tech Exhibition showcasing student projects, a QR-based Treasure Hunt, and a stargazing session followed by a film screening.



Student Achievements

International Collegiate Programming Contest

The IIT Indore team, "404 Solution Not Found," comprising Nishkarsh Luthra (B.Tech CSE'25), Naren Sai (B.Tech CSE'26), and Pilla Venkat Sehar (B.Tech CSE'25) under the guidance of Prof. Abhishek Srivastava, delivered an outstanding performance at the International Collegiate Programming Contest (ICPC). The team secured 2nd rank among all Indian institutes, 3rd in the Asia-West region, and 72nd globally, solving 6 challenging problems and outperforming several top institutions across the nation. Competing with over 3000 universities from over 100 countries, our team demonstrated exceptional skill, dedication, and perseverance, proving their prowess on the global stage.



Grand Innovation Award

The IIT Indore team achieved remarkable success on September 28, 2025, by securing the First Prize and the Grand Innovation Award at the Indian Academic Makers Summit 2025 held at IIT Gandhinagar. Their project, Intelligent Access Control and Machine Monitoring System, earned a ₹30,000 cash prize, with over seven IITs expressing interest in collaborating to deploy the system. The winning team comprised of Atharva Chavan, Dhruv Bharadwaj, P. R. Guru Pranav, Satyajeet Pani, and Saket Jaiswal.

- ByteBandits — comprising Krishay Rathaure (EP), Akarsh Raj (EP), Sumit Modanwal (CE), and Tanish Yadav (MnC), secured 4th place nationally and 44th globally in the CSAW qualifiers, advancing to the global finals.
- Sagar Gopaldas Katariya (CEVITS) was awarded the DAAD KOSPIE Scholarship to pursue part of his master's thesis at the Technical University of Braunschweig, Germany.
- Samriddhi Saxena (MEMS) received the Fulbright-Nehru Doctoral Research Fellowship for a research stay at the Georgia Institute of Technology, USA.
- Sneha Goyal (M.Sc., BSBE) received the Merit-cum-Means Scholarship for academic excellence.

- Vikas Rawat (CE) was awarded the ANRF ITS Travel Grant 2025 to participate in ISLGC-2025 at Singapore.
- Under Prof. Anirban Sengupta (CSE), Nabendu Bhui, Aditya Anshul, and Vishal Chourasia achieved multiple international publications and conference presentations at IEEE SOCC 2025, Dubai.
- Under Prof. Avinash Sonawane (BSBE), Monalisa Sahu, Megha, Sagar Keshri, Vinay Kumar Verma, Mrityunjay, Pranit Hemant Bagde, Soumalya Das, and Sunanda Samanta received SPARC-GIANT funding for collaborative research with Julius-Maximilians-Universität Würzburg.



ALUMNI HIGHLIGHTS

Hyderabad Chapter & Release of Alumni Magazine

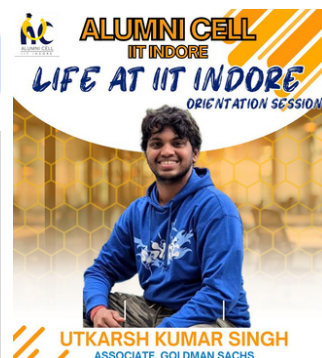
The Alumni and Corporate Relations Office of IIT Indore organized the Hyderabad Chapter Alumni Meet on September 13, 2025, bringing together over 85 alumni for a reunion. The event was attended by Prof. Suhas S. Joshi, Director; Mr. S. P. Hota, Registrar; Prof. Suman Mukhopadhyay, Dean, ACR; Prof. Amod C. Umarikar, Dean of Student Affairs; faculty members; and the ACR and Alumni Cell teams. The gathering facilitated meaningful interactions between alumni and the institute, with alumni sharing their professional experiences and the Director addressing the attendees. Prof. Joshi appreciated the vision and efforts behind such chapters, acknowledging their role in strengthening the institute-alumni connect.



Unveiled at the Alumni Meet – Hyderabad Chapter, The Road Less Taken, the annual alumni magazine, was released by the Director and the Dean ACR, marking a highlight of the event. From UPSC classrooms to art studios, startups to research labs, this edition showcases the diverse paths alumni have pursued while carrying forward the spirit of IIT Indore. True to its name, the magazine celebrates those who ventured beyond conventional routes, redefining what it means to be an IIT Indore graduate.

“Life at IIT Indore” Talk

The Alumni Cell organized its orientation session titled “Life at IIT Indore” on August 27, 2025. The session featured Mr. Utkarsh Kumar Singh, a 2019 B.Tech alumnus from the Department of Computer Science and Engineering and currently an Associate at Goldman Sachs. He spoke about his journey: IIT Indore and beyond, sharing insights from his academic and professional experiences. The session also introduced the activities of the Alumni Cell and outlined the induction process for new members.



Release of POD Pulse: Volume 2



The Volume 2 of POD Pulse was released on September 4, 2025, by Padma Bhushan Prof. Padmanabhan Balaram (Former Director, IISc), in the presence of our Director, Prof. Suhas S. Joshi, along with the Deans — Prof. Vipul Singh (DoAA), Prof. Abhishek Srivastava (DoFA), Prof. Amod C. Umarikar (DoSA), and Prof. Suman Mukhopadhyay (DoACR).

Producing Electricity using Water

A research team led by Prof. Dharendra K. Rai and Khushwant Singh has developed a device that generates electricity using only water. The device employs a specially engineered graphene oxide membrane that converts the natural process of evaporation into electrical energy. When the membrane is immersed in water, the liquid rises and evaporates through microscopic pores, causing oppositely charged ions to separate at the ends—thereby producing a steady voltage. Remarkably, the device functions efficiently with clean, muddy, or salty water and remains stable for several months. Lightweight and sustainable, it holds significant promise for powering sensors, medical wearables, and emergency lighting, particularly in rural and off-grid areas.



Treatment of Acute Lymphoblastic Leukemia

Researchers at IIT Indore have achieved a breakthrough in the treatment of Acute Lymphoblastic Leukemia (ALL), a blood cancer commonly found in children. Prof. Avinash Sonawane and his team have developed a new version of the drug “L-asparaginase,” which destroys up to 85% of leukemia cells while significantly reducing liver-related side effects. In collaboration with DK Biopharma for large-scale production, the team aims to make the treatment more effective, affordable, and child-friendly. The new drug offers renewed hope with its longer shelf life, fewer side effects, and lower production cost.

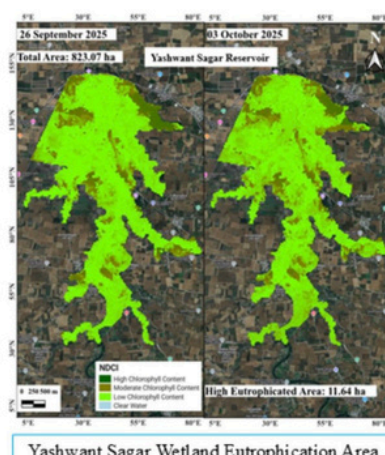


Sustainable Metal 3-D Printing

A research team at IIT Indore, led by Prof. Neelesh Kumar Jain, has developed Micro-Plasma Metal Additive Manufacturing (MP-MAM), an innovative and eco-friendly metal 3-D printing technology. Using a unique plasma-based process, MP-MAM creates precise metal components with low energy use and zero harmful emissions. It works with a variety of metals, benefiting industries such as aerospace, defense, healthcare, and tooling. Patented in India and awarded IIT Indore’s Best Technology Award, this breakthrough promises faster, cheaper manufacturing while reducing environmental impact, making advanced manufacturing accessible and sustainable for society.

Real-Time Wetland Monitoring Tool

Researchers Prof. Manish Kumar Goyal and research scholar Vijay Jain from IIT Indore have developed a digital tool, Water Quality Monitoring Interface, to assess wetland health in near-real-time using freely available Sentinel-2 satellite data and cloud computing. The tool calculates key indices for chlorophyll, turbidity, freshwater availability, and vegetation moisture. Designed to be affordable and user-friendly, it enables early detection of pollution and eutrophication across India’s wetlands. Director Prof. Suhas S. Joshi noted that the innovation exemplifies IIT Indore’s commitment to leveraging technology for environmental sustainability and empowering communities to safeguard vital ecosystems.



- The site observed with 9.37% moderate and 1.41% high eutrophication areas dated 3rd October 2025.
- The growing vegetables on the dried land of Yashwant Sagar by using insecticides and pesticides, fishing activities, and illegal poaching of birds are affecting the ecosystem of the site (TOI, 2023).

FACULTY HIGHLIGHTS

National Teachers' Award

Prof. Debayan Sarkar from the Department of Chemistry received the National Award to Teachers 2025 from the President of India on September 5, 2025. The award acknowledges his efforts in fostering independent thinking and hands-on learning among students. Dr. Sarkar encourages his students to tackle real-world chemical problems, often working with them in laboratories and during field visits to rural areas. Reflecting on the recognition, he emphasized the growing need for interdisciplinary teaching and research in building “Viksit Bharat @2047,” highlighting education’s role beyond classrooms and into practical societal applications.



Prof. Ram Bilas Pachori, Department of Electrical Engineering, has been elected Fellow of the Indian National Academy of Engineering (INAE), effective November 1, 2025.



Prof. Anirban Sengupta, Department of Computer Science and Engineering, has been selected as a Distinguished Contributor of the IEEE Computer Society 2025, awarded to the top 0.5% of members worldwide for contributions to Hardware Security and Optimization.



Dr. Ayan Mondal, Assistant Professor, Department of Computer Science and Engineering, has received the IEI Young Engineers Award 2025–26 in the Computer Engineering discipline.

Patents

Prof. Shaibal Mukherjee

Title: “System and Method for Point-of-Care Diagnosis and Monitoring of Uric Acid Levels”

Prof. Rupesh Devan

Title: “Process for Industrial-Scale Production of Pure Ti_2AlC MAX Phase at Ambient Pressure Conditions and Ti_3C_2Tx MXENE Thereof”

Prof. Vimal Bhatia

Title: “Method and Apparatus for Recording, Archiving, Media Management and Playing Back of a Telephonic Call”

Prof. Devendra Laxmanrao Deshmukh

Title: “Continuous Ultra-Fast Compressed Imaging with Simultaneous Referencing”

Prof. Amit Kumar

Title: “A Drug Composition/Combination for Effective Therapeutic Treatment and Method Thereof”

Mr. **Utkarsh Kumar Singh**, a B.Tech alumnus (Batch of 2019) from the Department of Computer Science and Engineering, IIT Indore, graciously sponsored all expenses related to the publication and printing of this edition of **POD Pulse**. Team POD Pulse sincerely thanks him for his generous support and continued association with the institution.

We request our esteemed alumni to kindly contribute towards Alumni Cell initiatives such as *Magnum Opus*, Newsletter and Magazine printing, and other activities.



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