



॥ सा विद्या या विमुक्तये ॥

ಭಾ.ತಂ.ಸಂ. ಧಾರವಾಡ
भा. प्रौ. सं. धारवाड
IIT DHARWAD

INDIAN INSTITUTE OF
TECHNOLOGY DHARWAD

NEWSLETTER

ಸಂಬಂಧ | ಸಂಬಂಧ | SAMBANDH

VOLUME 3 | ISSUE 4
OCTOBER 2025



SIXTH CONVOCATION

CELEBRATING EXCELLENCE, INSPIRING FUTURES



The Indian Institute of Technology dhArwAD celebrated its Sixth Convocation Function on Saturday, 19th July 2025, at the Central Learning Theatre (CLT), IIT dhArwAD campus. The ceremony marked another milestone in the institute's journey of academic excellence, research innovation, and holistic education.

The event was presided over by Prof. S. S. Murthy, Member, Board of Governors, IIT dhArwAD, and graced by Prof. Abhay Karandikar, Secretary, Department of Science and Technology (DST), Government of India, New Delhi, as the Chief Guest, and Prof. Dharendra Katti, Director, IIT Goa, as the Guest of Honor.

The program commenced with the National Song, followed by the formal declaration of the convocation open by Prof. Murthy. IIT dhArwAD Director Venkappayya R. dEsAi presented the institute's annual report, highlighting academic progress, research excellence, and campus initiatives.

Delivering the convocation lecture, Prof. Abhay Karandikar said

"The Union government is giving the highest focus to institutions like IITs. India now hosts the world's third-largest research ecosystem, with significant growth in high-impact scientific publications and research output. The country's dynamic growth trajectory is a result of substantial investments in research, including the recent allocation of ₹1 lakh crore for research and development. Young graduates should focus not just on developing cutting-edge technologies but also on crafting policy interventions that can bring meaningful change to society. India's science and technology landscape is transformative and central to the vision of Viksit Bharat 2047. Institutions like IITs will play a pivotal role in this journey."

During the convocation, the President of India Gold Medal was awarded to Pomaje Rishabh Sharad (Electrical Engineering), and the Director's Gold Medal was awarded to Abhiram K. (Engineering Physics).

Speaking on the evolving role of engineers, Prof. Dharendra Katti said:

"Today's engineers must engage with complex issues such as climate change, public health, clean energy, ethical artificial intelligence, and disruptions brought by rapid technological advancement. Students should pursue solutions that are innovative, socially responsible, and ethically sound. Collective efforts are essential to build an equitable and sustainable future, including designing effective water management systems and fostering interdisciplinary collaborations."

A total of 227 degrees were awarded, including 164 B.Tech, 30 M.Tech, 13 M.S., and 20 Ph.D. graduates. The event also featured the Pledge in Sanskrit by Degree Recipients, symbolizing their commitment to ethical conduct, professional excellence, and service to society.

The ceremony concluded with the National Anthem, leaving an atmosphere of pride and joy as graduates, parents, and faculty celebrated the institute's achievements.

The Sixth Convocation of IIT dhArwAD highlighted the institute's commitment to shaping minds, fostering research excellence, and serving the nation through education and innovation.

Convocation Videos



Medal Winners



Parents & Students Feedback



Glimpse of 6th Convocation



Convocation Live Video



Director's Major Engagements



PROF. Venkappayya R. dEsAi, Director, IIT dhArwAD, participated in the 25th Annual Convocation of Visvesvaraya Technological University (VTU) as Executive Council Member (AICTE Nominee) on 4th July 2025. He attended the 71st Annual Convocation of IIT Kharagpur as a Special Invitee on 15th July 2025. On 26th July 2025, he delivered a talk on "Planning Sustainable Infrastructure through Cities/Towns which are Net Zero in Water-Energy-Waste" at Indore, organized by the Indian Geotechnical Society (IGS), Indore Chapter. The following day, 27th July 2025, he participated as Guest of Honour in the Bharatiya Bhasha Summer Camp organized by Vidya Bharati Uchcha Shiksha Sansthan (VBUSS) at Coimbatore, Tamil nADu.

He attended the Akhil Bharatiya Shiksha Samagam 2025 at Bharat Mandapam, New Delhi, on 29th July 2025, marking the completion of five years of the National Education Policy (NEP 2020). On 24th August 2025, he graced the Graduation Day ceremony at BMS College of Engineering, BengalURu, as a Chief Guest & addressed the graduating students. On 30th August 2025, he attended the Alumni Connect on "Social Engineering 2.0" organized by the KREC / NITK Alumni Association, HubbaLLI-dhArwAD Chapter, as a Guest of Honour.

He participated in the 2nd Convocation of IIIT RAichuru as a Board Member on 6th September 2025. On 11th September 2025, he was part of the MoU signing ceremony with Army AD College and the Manekshaw Centre of Excellence in National Security Studies & Research (MCOENSSR) at GopAlpur, Odisha. He attended the Tri Services Event at the Manekshaw Centre, New Delhi, on 23rd September 2025. On 27th September 2025, he participated as Special Guest in the Conference on Bharatiya Gyan Parampara and IITs at IIT BhilAi, where he delivered a talk on "Indian Knowledge Systems (IKS) relevant to Civil and Mechanical Engineering." Additionally, he participated in the 6th Annual Convocation, 9th Foundation Day, and Independence Day events at IIT dhArwAD.

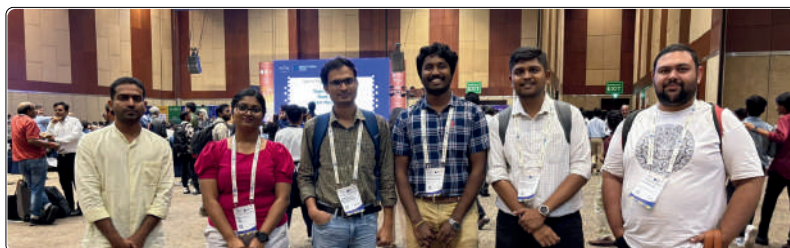


PProf. Amarnath Hegde, Dean [IPS], has been recognized in Stanford University's Top 2% Scientists list for 2025 in both career-long and single-year categories, marking his fifth consecutive year on this prestigious list. This honor acknowledges his significant contributions to Geotechnical Engineering. Stanford evaluates scientists across 22 fields and 174 sub-fields, assessing both single-year and career-long impact. Prof. Hegde's work exemplifies dedicated research, academic leadership, and innovation. He also served as the examiner for the Ph.D. thesis titled "Seismic Response and Slope Stability of Hybrid Tailings Dams" by Ms. Aswathi T S, Department of Earthquake Engineering, IIT Roorkee.

PProf. Dhiraj V. Patil, Dean [CoE, Alumni and Corporate Relations], represented the institute as Chief Guest at the Internal Facilitators Recognition Event organized by Tata Motors, dhArwAD Plant. He delivered an inspiring talk on "Trainers/Teachers as Skill Enablers: Driving Growth through Upskilling", emphasizing the crucial role of facilitators in nurturing talent, promoting continuous learning, and driving organizational excellence.



PROF. K. V. Jayakumar, Dept. of CIE, participated in the 31st Governing Body meeting of Wetlands International South Asia at Loktak Lake, Manipur during 2–3 September 2025. He delivered an invited talk on “Indian Knowledge System” at Sri Ram College of Commerce, New Delhi, on 10th September 2025, under the Malaviya Mission Teacher Training Programme of the Ministry of Education. On 12th September 2025, he gave a keynote address on “Sustainable Urban Water Management” at the International Conference on Advanced Intelligent Sustainable Technologies, Materials and Infrastructure, organised by Graphic Era Deemed to be University, DehrADun, in collaboration with the University of Naples Parthenope, Italy. He also served as Guest of Honour at the FDP on Emerging Trends in AI for Intelligent Waste Management in Smart Cities, organised by Jain College of Engineering, BeLagAvl, under the AICTE–ATAL Programme, on 15th September 2025.



The Additive Manufacturing & 4D Printing Lab (AM4DP), Dept. of MMAE, showcased its cutting-edge research by presenting four papers at the IMECE INDIA 2025 conference, held at the Hyderabad International Convention Centre, HyderAbAd, from 10th–13th September 2025.

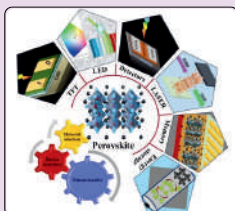
The presented works included:

- 1: “Extrusion-Based Additive Manufacturing of Ceramic Moulds in Investment Casting” by Sujay C, Akshay Kamalapur, Omkar Bembalage, and PProf. Somashekara M. A. (Presenting Author: Akshay Kamalapur).
- 2: “A Comparative Study of Surface Characteristics in Wire Laser and Powder Laser Additive Manufacturing of 316L Stainless Steel” by Vinayaka E. Bodur, Prachi Savita, Prof. Anbukarasi Rajendran, and PProf. Somashekara M. A. (Presenting Author: Prachi Savita).
- 3: “Enhancing Surface Properties of Directed Energy Deposition Additive Manufactured Components Through Shot Peening” by Prashant Veer, Harshal Kulkarni, Prof. Rakesh Lingam, and Prof. Somashekara M. A. (Presenting Author: Prashant Veer).
- 4: “Impact of Geometry on Deformation Modes in Powder Bed Fusion Additive Manufacturing Auxetic Structures” by Sunil Magadum, Nagahanumaiah, and PProf. Somashekara M. A. (Presenting Author: Sunil Magadum)



PROF. Sanatkumar P Rajamane, Dept. of CIE, delivered a lecture on “Steel Composite Structures – Shear Wall – BRBS” at HyderAbAd on 11th July 2025, and another lecture on “Roofing and Walling Sheeting” at GoA on 25th September 2025.

PProf. Pratyasa Bhui, Dean [IPS – MEP], delivered a talk on “Phasor Simulation of Power System with Renewables” Delta Electronics, BengalUru as part of their weekly InnoTechTalks, discussing EMT and Phasor Simulation methods, and their relevance for renewable energy integration.



Dr. Pilik Basumatary and PProf. Dhriti Sundar Ghosh’s research article in the Journal of Applied Physics has been selected as an Editor’s Pick! The review explores perovskite-based devices beyond photovoltaics, highlighting trends, challenges, and prospects, with a focus on low-dimensional (2D, 1D, 0D) perovskites and their role in enhancing device performance for transistors, LEDs, detectors, lasers, memory devices, and energy storage.

Prof. Rakesh Lingam, Dept. of MMAE, delivered a talk on “Challenges in Sheet Metal Forming and Mitigation Technics” at AGM Rural College of Engineering and Technology (AGMRCET), Varur, HubbaLLI. During his address, Prof. Rakesh highlighted the importance of strong foundational knowledge in engineering and its industrial applications. He introduced students to advanced sheet metal forming techniques such as Die-less forming and Electric energy-assisted forming. He also shared his academic journey to inspire students to pursue higher education and research, and provided insights on GATE 2026, encouraging them to apply to strengthen their future career prospects.



Prof. Anand Konjengbam, Dept. of CSE, and alumnus of IIT HyderAbAd, has been elected as the Vice President (India) of the IIT HyderAbAd Alumni Association

In this leadership role, he will focus on strengthening alumni engagement, fostering collaborations, and building meaningful bridges between the alumni community, academia, and industry.



Prof. Nilkamal Mahanta, Dept. of Chem, delivered an invited lecture on “Biosynthesis of Complex Natural Products with Potent Antibiotic Activities” at the National Conference on “Molecules and Materials for Building a Better World,” organized by the Department of Chemistry, KarnATak University, dhArwAD, on 18th July 2025.



PProf. Satish Naik Banavath, Power and Energy Group, has been appointed as an Associate Editor for the IEEE Transactions on Power Electronics, one of the most prestigious journals of the IEEE Power Electronics Society. This recognition reflects his significant contributions to the field of electrical engineering. PProf. Satish expressed gratitude to his students, mentors — Professors L. Umanand and K. Gopakumar (DESE, formerly CEDT, IISc) — and collaborators for their continued support. In his new role, he aims to promote rigorous research, innovative ideas, and academic excellence in the domain of power electronics



As part of the GATE 2026 and JAM 2026 Outreach Activity, conducted through the GATE-JAM Office at IIT dhArwAD, eight faculty members visited 10 colleges across dhArwAD and BeLAgAvi districts to interact with students and create awareness about the GATE 2026 and JAM 2026 entrance examinations and related career opportunities. The sessions also highlighted the infrastructure, academic programs, and research facilities available at IIT dhArwAD.

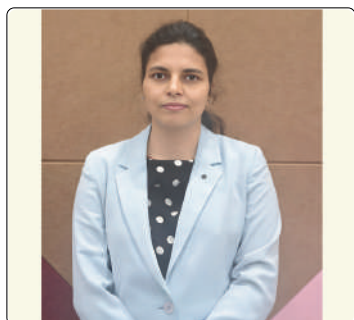
This initiative was funded by the GATE-JAM Office, IISc Bengaluru, and the GATE 2026 organizing institute, IIT GuwAhAti. The participating faculty members included Prof. Sontti Somasekhara Goud, Prof. C. Ravi Kumar, Prof. Ramesh Nayaka, Prof. Ruma Ghosh, Prof. R. Prabhu, Prof. Sushant Sethi, Prof. Mahesh Gudem, and Dr. Supriya Rej.



PProf. C. Ravikumar, Dept. of Chem.Engg, delivered two outreach talks at BeLAgAvi, KarnATakA, on 19th September 2025 (Friday) as part of the Departmental Outreach Activity. In the forenoon session, he delivered a talk on GATE and JAM examinations at KLE University, guiding students on the opportunities available through these examinations and highlighting the academic and research avenues at IIT dhArwAD. He delivered a research talk on “Advances in Nanomedicine for Large Cellular Delivery of Drugs to Treat Cancer” at the Department of Chemical Engineering, KLE University, introducing students to emerging research areas in nanomedicine. He also conducted a session on GATE and JAM examinations at S.G. Balekundri Institute of Technology, BeLAgAvi, emphasizing career opportunities and research prospects at IIT dhArwAD.

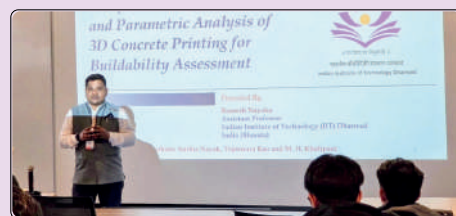


Prof. Ridhima Tewari was invited by VIT Vellore as a resource person for its Faculty Induction Programme (FIP) on 3rd July 2025. She conducted two engaging sessions on Pedagogy and Communication Skills, addressing around 150 new faculty members. Her sessions focused on orienting the new faculty members to effective teaching-learning processes in institutes of technology and enhancing academic interactions within classrooms. The FIP was organised by the Teaching Learning Centre of Excellence at VIT Vellore.



Prof. Vandana Bharti from the Dept. of CSE delivered a Keynote Lecture on "Generative AI in Healthcare" at IEEE MPCON-2025, held on 29–30 August 2025 at Shri Ram Institute of Technology, Jabalpur, MP, organized in association with the institute and supported by IETE Gwalior and MIR Labs. She also presented her research papers at international conferences: "Enriching Pre-Training Using Fuzzy Logic" at FUZZ-IEEE 2025 in Reims, France (6–9 July 2025) and "When Explainability Meets Vision AI: Analyzing CNNs, Transformers, and State-Space Models in Healthcare" at IJCNN 2025 in Rome, Italy (30 June–5 July 2025).

Prof. Ramesh Nayaka presented a technical paper titled "Computational Modeling and Parametric Analysis of 3D Concrete Printing for Buildability Assessment" at the Asia-Pacific International Conference on Additive Manufacturing (APICAM 2025), held at Royal Melbourne Institute of Technology University, Melbourne, Australia, during 30 June - 3 July 2025.



An International Conference (ICFP 2025) was organised from 6th to 8th September 2025 by Prof. Ajay Kumar (IIT Tirupati), Prof. Anbukarasi Rajendran (IIT dhArwAD), Prof. Devender Yadav (IIT PatnA), and PROF. Satyam Suwas (IISc Bengaluru), jointly with the International Association for Processing of Materials and Fabrication of Products (IA-PMFP).



A technical research paper authored by Prof. Samarth S. Raut and Mr. Rahul L. Maurya, M.S. student, titled "Shape Modulating 3D-Printed Omnidirectional Soft Pneumatic Composite Tube Actuator: Clover Leaf Model With Eccentric Holes," was presented by Prof. Samarth S. Raut in the Soft Robotics and Automation track at the ASME International Mechanical Engineering Congress & Exposition (IMECE-INDIA) 2025. The conference was held in Hyderabad from 10th to 13th September 2025, providing a platform to showcase advancements in soft robotics and additive manufacturing.

Prof. Gayathri Ananthanarayanan, Dept. of CSE, has been selected under the Indo-German Science & Technology Centre (IGSTC) Women Involvement in Science and Engineering Research (WISER) Call 2025. She will work on the project titled "Adaptive Resource Orchestration for DNN-based Mixed Criticality Workload Deployments in Edge-Cloud Systems" in collaboration with Prof. Diana Göhringer, TU Dresden, Germany.





From the Dept. of Physics, Prof. Koushik Saha was invited to speak at the ASI Symposium on Genesis and Evolution of Organics in Space, held at GITAM University, Bengaluru, during 16th to 18th July 2025, where he presented his research on the observation of ultraslow isomerization in C10- molecules, offering insights into the formation of complex molecules in interstellar environments.

Prof. Kavita Devi delivered an invited talk at the 19th Workshop on Information Optics (WIO 2025) in Barcelona, Spain, from 30th June to 4th July 2025, on "Temporal and Spectral Dynamics of Continuous-Wave Optical Parametric Oscillator Beyond Conventional Limits."

Additionally, Ms. Rojalin Padhi (Guided by: Prof. Kavita Devi) presented her research on "Continuous-wave Laser Thermal Lensing Effect on Nonlinear Optical Properties in KMnO_4 " at the International Conference on Nonlinear Optics and Nanophotonics (ICNNFT 2025), held at IISER Bhopal during 9th to 12th July 2025.

FUNDING SECURED / GRANTED

SPONSORED PROJECTS

SI No	Principal Investigator With Dept	Co Principal investigator [If any]	Title of the Project	Sponsoring Agency	Sanction date	Duration of the project (YY-MM)	Value of Project(in Lakhs ₹)
1	Prof. Aniket Vasantao Kataware (CIE)	-	Performance evaluation of bituminous mixes prepared with granulated rubber modified bitumen through dry process	CTS Bitumen and Petrochemicals Pvt. Ltd.	21.07.2025	02-00	4.72

List of Donors to IIT dhArwAD [01.07.2025 to 30.09.2025]

Sl.No.	Donor's Name	Affiliation	Designation	Donation Amount	Donation date
1	Mr. Megavath Srihari	IIT dhArwAD	Student	18,480	17.07.2025
2	PROF. VenkappaYYA R. dEsAi	IIT dhArwAD	Director	300,000	08.08.2025
3	Prof. Ramesh Nayaka	IIT dhArwAD	Assistant Professor	10,000	04.09.2025
4	Prof. Konjengbam Anand	IIT dhArwAD	Assistant Professor	10,000	04.09.2025

Total Donations Received Till March 2025 are ₹47,24,724

CONSULTANCY PROJECTS

S.No	Principal Investigator (Dept)	Co-Principal Investigator (Dept)	Title of the Project	Industry / Company / Institute	Sanction date (dd.mm.yyyy)	Cost of the Project(in Lakhs ₹)
1	Prof. Giridhar Rajesh Bande (CIE)	-	Proof checking of major/minor bridges and RUB/ROB for Construction of new BG line between chainage 171.640 and 142.920 covering 28.720 km between Bharmasagar (Incl.) and Chitradurga (Excl.) Stations.	M/s. MKC Infrastructure Limited	04.07.2025	19.99
2	PROF. Venkappayya R. dEsai (CIE)	PROF. Sanathkumar Rajmane (CIE)	Concrete repair works in UG metro stations of MMRC – Confirm the concrete strength.	M/s. Dogus-Soma JV	11.07.2025	2.30
3	Prof. Hemanth Kumar Chinthapalli (CIE)	-	Expert Review of the tank works of IOCL, Guntakal Depot.	Consolidated Engineering Construction Company	26.07.2025	2.95
4	Prof. Hemanth Kumar Chinthapalli (CIE)	-	Third Party Inspection for “Construction of Shopping Complex in Bus Station Hubballi.”	NWKRTC, Hubballi	06.08.2025	2.36
5	Prof. Ramesh Nayak (CIE)	Prof. Hiranya Deka (MMAE), Prof. Konjengbam Anand (CSE)	Third Party Inspection of the Assessment of the Bharat Ratna Dr. B. R. Ambedkar Labor Service Centers established by the Building and Other Construction Workers Welfare Board, Govt of Karnataka.	Karnataka State Building & Other Construction Workers Welfare Board	11.08.2025	24.04
6	Prof. Surya Prakash Ramesh (MMAE)	Prof. Keerthi M. C. (MMAE)	Aerodynamic design and performance analysis of a centrifugal blower.	Sasyaka Engineering Solutions Pvt Ltd	16.08.2025	5.90
7	Prof. Hiranya Deka (MMAE), Prof. Omkar B. Bembalge (MMAE)	-	Aerodynamic shape optimization of ceiling metal fan blades for energy efficiency.	Crompton Greaves Consumer Electricals Ltd, Experience and Innovation Centre 1	25.08.2025	12.47
8	Prof. Aniket Vasant Rao Kataware (CIE)	-	Inspection services for the work of “Construction of Automated Vehicle Testing Track for ARTO at Bailhongal.”	NWKRTC, Bailhongal	28.08.2025	3.54
9	Prof. Hiranya Deka (MMAE)	-	Analysis of droplet-wall impingement during impact of UWS single and multiple droplets on a heated surface.	Cummins Technologies India Pvt Ltd	02.09.2025	14.32
10	PROF. Venkappayya R. dEsai (CIE)	PROF. Sanathkumar Rajmane (CIE)	Study the NDT test reports carried out on concrete repair works in tunnels of MMRC and confirm the concrete strength.	M/s. Dogus-Soma JV	05.09.2025	2.37
11	PROF. Venkappayya R. dEsai (CIE)	PROF. Sanathkumar Rajmane (CIE)	Peer review of the Infrastructure Stores Department of Rail Wheel Factory of Indian Railways, Yelahanka, Bengaluru.	M/s. Chetan Infra Tech Consultants Pvt Ltd	09.09.2025	2.95
12	Prof. Hemanth Kumar Chinthapalli (CIE)	-	Belur to Hadihalli Railway Bridges Design Vetting.	V Narasimha Constructions LLP	27.09.2025	3.54
13	Prof. Hemanth Kumar Chinthapalli (CIE)	-	BSPL Integrated Steel Plant-Halavarthi, Koppal – Concrete Mix Design.	Balajee Infratech and Constructions Pvt Ltd	29.09.2025	5.67
14	Prof. Hemanth Kumar Chinthapalli (CIE)	-	Belur to Hadihalli Railway Bridges Design Vetting.	V Narasimha Constructions LLP	26.07.2026	11.80



As part of the 6th Convocation Day celebrations on 19th July 2025, a Plantation Drive was organized at IIT dhArwAD. PROF. Abhay Karandikar, Secretary, DST, planted a Sal Tree (MOOIA nakshatra), and PROF. Dharendra Katti, Director, IIT GoA, planted a Mango Tree (PURvA BhAdrapada nakshatra), marking the occasion with a gesture of sustainability and growth.

Shri Rahul Sankanur, IAS, Managing Director, Karnataka Innovation & Technology Society (KITS), visited IIT dhArwAD and held discussions with PROF. Venkappayya R. dEsAi on possible funding opportunities from the State Government for research and innovations.



IIT dhArwAD organized Samavesha 2025 on 22nd July (Tuesday) in collaboration with the I-STEM Bengaluru Team. The event featured a series of talks on the effective use of the I-STEM portal, along with an insightful session by an industry expert. Participants also had the opportunity to visit and witness demonstrations of the SCIF facilities at IIT dhArwAD



As part of the Departmental Outreach Activity, 2nd, 3rd, and 4th year B.Tech Chemical Engineering students of IIT dhArwAD visited Shilpa Biologicals Pvt. Ltd., BeLur, dhArwAD, on 1st September 2025. During the visit, students observed the upstream and downstream vaccine manufacturing processes, formulation, and final product development units, gaining valuable industrial exposure. The institute extends sincere thanks to Mr. Amal Sasidharan, Mr. Harikrishna, and Mr. Aravind from Shilpa Biologicals for their support and insightful interactions. The visit was coordinated by PProf. Ravikumar C. and Prof. Shashwata Ghosh, with assistance from Mr. Varun, Dept. of Chemical Engineering.



IIT dhArwAD inaugurated its new Basketball Court on 8th September 2025, located behind the Indoor Common Facility. The event saw enthusiastic participation from students, faculty, and staff, marking a significant step towards enhancing sports and recreational infrastructure on campus.

IIT dhArwAD celebrated Engineers' Day 2025 on 15th September 2025, with Shri Allahbaksh Asadullah, Centre Head & AVP, Infosys HubbaLLI, as Chief Guest. He highlighted that "Work is Worship" and urged engineers to tackle challenges like climate change and sustainability. PROF. Venkappayya R. dEsAi, Director, IIT dhArwAD, paid tribute to BhArata Ratna Sir M. Visvesvaraya, recalling his enduring contributions to nation-building.





IIT dhArwAD and State Bank of India have signed SBIePAY Merchant Agreement for offering Payment Aggregation services under the name SBIePay to provide the facility for online collection of fees and other charges.



In front of the Main Administrative Building, more than 100 faculty, staff, and students of IIT dhArwAD came together on September 17, 2025 to take the Swachhata Hi Seva Pledge 2025, reaffirming their commitment to cleanliness, sustainability, and collective responsibility towards a cleaner and greener environment.

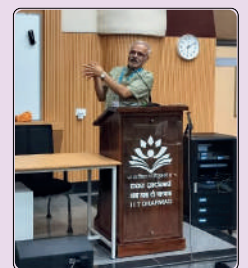


The Career Development Cell organized a tech talk on “The Rise of AI-Driven Development: Transforming Software Engineering in 2025” by Mr. Amit Bhardwaj, Vice President, Broadridge Financial Solutions, on 18th September 2025, at the Central Learning Theatre (CLT). The session explored how Artificial Intelligence is revolutionizing software engineering and driving innovation across industries. Students from various programs actively participated, gaining insights into emerging AI trends shaping the future of technology.



IIT dhArwAD, in collaboration with dhaRti Foundation and Dvara Holdings, hosted an interactive session with Prof. P. G. Diwakar (ISRO Chair Professor, NIAS; Retd. Scientific Secretary, ISRO) on 17th September 2025 at Seminar Hall 318B, Academic Block 2. The session, themed “Remote Sensing & Earth Observation: Enabling Development through Space Technology,” offered valuable insights into how space technology contributes to achieving developmental goals.

IIT dhArwAD celebrated Teachers' Day on 8th September 2025 at the Central Learning Theatre, with enthusiastic participation from the institute community. Faculty members shared their reflections and experiences, making the event a heartfelt tribute to educators and their invaluable role in shaping minds. In his address, PROF. Venkappayya R. dEsAi, Director, IIT dhArwAD, highlighted the significance of teachers by elaborating on the various Sanskrit names attributed to them—Shikshak, Guru, adhyapak, Acharya, upAdhyAy, PAtthak, PrErak, and MArgadarshi. The programme was seamlessly compered by Prof. Ramjee Repaka, Dean [Faculty Welfare].



IIT dhArwAD hosted an experiential learning session on “Mechanical Design and Electronic Packaging in Advanced Systems” on 4th September 2025 at the Central Learning Theatre (CLT) 010. The session was delivered by Mr. Rajeev Sahu, Deputy General Manager, Tata Advanced Systems Limited, Bengaluru, providing students valuable insights into advanced mechanical design concepts and real-world engineering applications.

Prof. Jean-Christophe Nallatamby from CNRS XLIM Lab, France, visited IIT dhArwAD on 21st and 22nd August 2025 and interacted with the GaN Device Research Group. The visit aimed to strengthen the ongoing research collaboration between IIT dhArwAD and XLIM Laboratory, France, and to explore new avenues for joint research activities focused on GaN-based RF HEMTs.



IIT dhArwAD hosted an industry interaction on “Digital Transformation in Mechanical Engineering: Opportunities for Future Engineers & Innovators” as part of the course ME102C: Introduction to Mechanical Engineering. Eminent speakers from Daimler Truck Innovation Center India (DTICI), Bengaluru — Mr. Sachin Patidar [Vice President – Vehicle Development & Innovation], Mr. Pravin Raut [Head – Digital Manufacturing & Operations IT], and Mr. Abhijit Lele [Technical Manager] — engaged with students, sharing insights on how digital transformation is revolutionizing the mechanical and automotive engineering landscape.



IIT dhArwAD celebrated the National Sports Day on 29th August 2025 with enthusiastic participation from students, faculty, and staff across events including Badminton, Table Tennis, Squash, Basketball, Weightlifting, and Athletics. Winners and runners-up were felicitated with trophies and certificates, showcasing the institute’s strong sporting spirit.

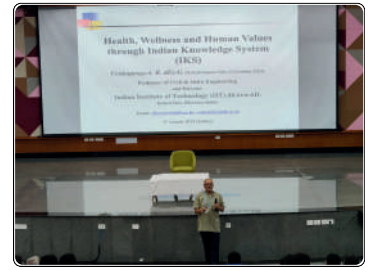
The 9th Foundation Day was celebrated on 28th August 2025 at the Central Learning Theatre. Prof. Shiva Prasad, Ex-Professor, IIT Bombay, and Ex - Pic, IIT dhArwAD graced the occasion as Chief Guest, emphasizing on true education with curiosity, self-learning, and scientific thinking. PROF. Venkappayya R. dEsAi, Director, highlighted the institute’s progress in education, research, and innovation, followed by awards recognitions for outstanding students.



IIT dhArwAD celebrated Independence Day on August 15, 2025 with great patriotic fervour. PROF. Venkappayya R. dEsAi, Director, hoisted the National Flag, followed by the National Anthem and a soulful patriotic performance by students. In his address, he reflected on sadvichār-sadanushṭhān, emphasizing the importance of preserving water bodies, taking vaiyaktik dayitva (personal responsibility), and embracing the spirit of “Let noble thoughts come to us from all sides.” The NCC Rank Giving Ceremony honored cadets with ranks, conferred by PROF. Venkappayya R. dEsAi, Gp Capt Dr. Prahlad Joshi (Retd.), and faculty members. The celebration concluded with ATC Certificate Distribution and a vibrant patriotic dance performance by students. Ahead of Independence Day, the IIT dhArwAD community joined the Har Ghar Tiranga initiative to celebrate the Tricolor and national pride.

IIT dhArwAD celebrated Sanskrit SaptAh from 6th to 12th August 2025, organized by the Centre of Excellence in Indian Knowledge Systems. The week-long event featured engaging talks and activities showcasing the richness and contemporary relevance of Sanskrit. PROF. Venkappayya R. dEsAi, Director, addressed the gatherings during both the inauguration and valedictory sessions. The valedictory function was graced by Prof. Ganti s. Murthy, IIT Indore, and National Coordinator, Indian Knowledge Systems Division, Govt. of India, as Chief Guest. The celebrations reflected IIT dhArwAD’s commitment to preserving and promoting India’s linguistic and cultural heritage.





A wellness session by Prof. Rajshekar K and PProf. Ridhima Tewari emphasized mental and physical well-being, while information sessions introduced key facilities like the Library, Career Development Cell, and Research & Development Section, led by Mr. Appasaheb Sheelavant, Prof. Satyapriya Gupta, and Prof. Punna Chatterjee, respectively.

Students attended inspiring talks by Dr. G. C. Kavitha on “A New Blueprint for the Engineer of the Future”, Prof. Kiran Seth (Founder, SPIC MACAY) on “Save the Tiger ...and also the ‘Rudra Veena’”, and PROF. Venkappayya R. dEsAi, Director, on “Health, Wellness, and Human Values through Indian Knowledge Systems.”

Additional sessions included “Nourish to Flourish: Essential Nutrition Tips for Students” by Ms. Namratha Pramod, “Together Without Fear: Standing Against Ragging” by Mr. Ajay Govind and Mr. Gaurav Singhal, “Drug-Free Campus: Awareness and Action” by Mr. Shashi Kumar, Police Commissioner, Hubballi-dhArwad, and “Strong Body, Safe Play: Handling Sports Injuries the Right Way” by Dr. Darshan Kamalakar.



IIT dhArwad successfully conducted a One-Day Workshop on “Advancements in Asphalt Binder Rheology: Towards Resilient Road Infrastructure” on 25th July 2025, drawing an excellent response with over 125 participants from government, industry, academia, and research sectors.

The workshop was inaugurated by PROF. Venkappayya R. dEsAi, Director, and Prof. Giridhar Rajesh Bande, Head, Dept. of CIE, whose insightful remarks set the tone for the event. Sponsored by Anton Paar, the workshop featured engaging lab sessions and hands-on demonstrations on Dynamic Shear Rheometer (DSR) testing and asphalt binder performance grading, providing participants with practical exposure to cutting-edge techniques in pavement engineering. Faculty members including PProf. Amarnath Hegde, Prof. Ramesh Nayaka, Prof. Hemanth Kumar CH., Prof. Somil Yadav, and PProf. Sudheer Siddapureddy graced the occasion. The event’s success was made possible by the dedicated efforts of Ph.D. scholars Prasad Bishetti, Darshan N, Abhinag Shantharam, Ms. Maheshwari Bisanal, and Sujeendra (JS), whose meticulous organization ensured a smooth and impactful experience.



IIT dhArwAD, in collaboration with Dr. Agarwals Eye Hospital, organized a Free Eye Check-up Camp on 7th September 2025 at the Wellness Center under the theme “Your Vision, Our Priority.” The initiative, open to all students, faculty, and staff, aimed to promote health and well-being on campus.



The Student Council Elections for the Academic Year 2025–26 at IIT dhArwAD were successfully conducted on 17th September 2025 in a free, fair, and transparent manner under the supervision of the Returning Officer Our sports officer, Dr. Keerthi Kumar M. The results were declared on 18th September 2025, marking the smooth conclusion of the democratic process on campus.



On 5th September 2025, Dept. of BSBE, IIT dhArwAD organized a Faculty Research Symposium 2025, highlighting cutting-edge research, interdisciplinary collaboration, and innovative scientific discussions. The symposium provided a dynamic platform to share pioneering work spanning the full spectrum of disease biology—from molecular and cellular studies to translational research with clinical impact on human health.

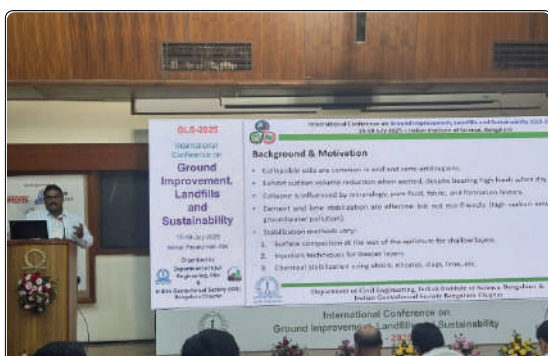
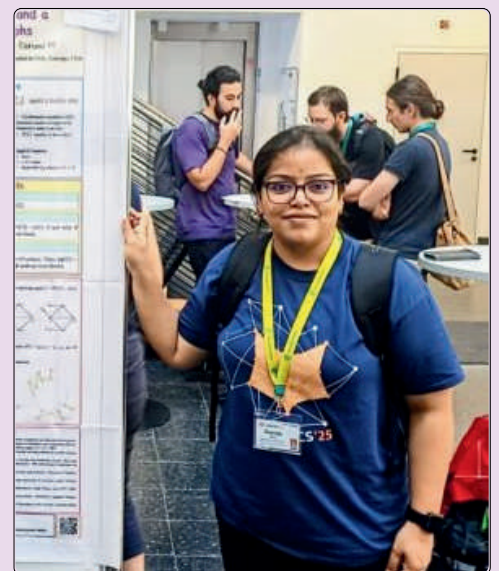
Mr. Tonmay Das (HS24DP005), a Ph.D. research scholar under the supervision of PProf. Ridhima Tewari from the Dept. of HEART, has joined TFO, a dynamic forum established in 2020 that brings together film enthusiasts and filmmakers from academia and industry. He also presented a co-authored research paper on vulnerability and visual media at the International Conference on Vulnerability in South Asian Literature: Understanding the Crisis and Community, held on 23rd September 2025 at Midnapore College (Autonomous), MEDinipur, West Bengal. The paper examined how vulnerability manifests in the neo-liberal, neo-capital era, disrupting socio-ecological systems in the Anthropocene, and highlighted the interplay between environmental appropriation and capital generation.



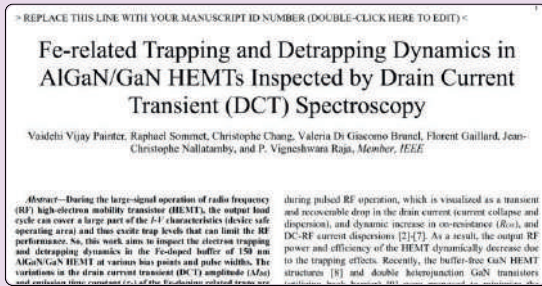
Mr. Malay Pramanik (CE23DP005), a doctoral researcher under the supervision of PProf. Amarnath Hegde, IIT dhArwAD, presented his paper titled “Landslide Susceptibility Assessment in the Western Ghats Region of India Using a Hybrid Analytical Approach” at the 9th International Symposium on Geotechnical Safety and Risk (ISGSR), held in Oslo, Norway, from 25th to 28th August 2025. The symposium gathered global experts in geotechnical engineering to discuss advances in safety and risk assessment.

Ms. Supraja D. K. (MA21DP002) from the Dept. of Mathematics, participated in the 25th Max Planck Advanced Course on the Foundations of Computer Science (ADFOCS 2025), held from 18th–22nd August 2025 at the Max Planck Institute for Informatics, Saarbrücken, Germany. The 2025 edition focused on “Graph Decompositions and Efficient Algorithms”, featuring lectures by Maria Chudnovsky, Michał Pilipczuk, and Thatchaphol Saranurak.

The summer school hosted around 130 participants from across the world, providing an enriching platform for lectures, exercises, and academic networking in theoretical computer science and mathematics. Ms. Supraja received a 300-Euro grant [awarded to select participants] towards the registration fee and presented a poster titled “Isometric Path Partition: An Upper Bound and a Characterization of Some Extremal Graphs,” a joint work with Dr. Irena Penev, Dr. R. B. Sandeep, and Dr. S. Taruni.



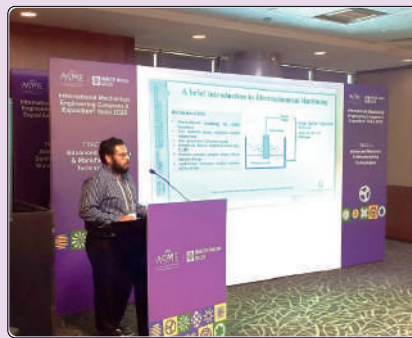
Mr. R. Mahender Reddy (CE22DP001) from the Dept. of CIE, participated in the International Conference on Ground Improvement, Landfills, and Sustainability (GLS-2025) held at the Indian Institute of Science (IISc), BengalUru, during 18th–19th July 2025. The conference, jointly organized by the IGS Bengaluru Chapter and the Department of Civil Engineering, IISc, provided a valuable platform for experts and researchers to exchange insights and advancements in sustainable geotechnical engineering practices.



A collaborative study between XLIM Laboratory, France, and UMS – United Monolithic Semiconductor titled “Fe-Related Trapping and Detrapping Dynamics in AlGaIn/GaN HEMTs Inspected by Drain Current Transient (DCT) Spectroscopy” has been published in IEEE Transactions on Device and Materials Reliability (IEEE TDMR). The study focuses on evaluating trapping-induced dynamic drifts affecting the large-signal performance of GaN-based RF HEMTs.

Ms. Vaidehi Painter (EE22DP005) made a commendable contribution to this work, and we extend our sincere thanks to our collaborators at XLIM and UMS for their continued support. DOI: 10.1109/TDMR.2025.3602857

Ms. Vinitha John (HS24DP004), a Ph.D. scholar from the Dept. HEART, presented a paper co-authored with her supervisor, Prof. Ridhima Tewari, at the National Conference on “Code, Culture, & Critique: New Junctures in Digital Humanities,” organized by the Indian Institute of Space Science and Technology (IIST), Thiruvananthapuram, in June 2025. The paper examined the intersections of digital cartography, postcolonial spatiality, and literary narratives, contributing meaningfully to the evolving discourse in Digital Humanities.



Mr. Amit Kumar (ME23DP001), a Ph.D. research scholar under the supervision of Prof. Vyom Sharma from the Dept. of MMAE, presented his paper at the American Society of Mechanical Engineers - International Mechanical Engineering Congress & Exposition (IMECE) 2025 conference, held at the Hyderabad International Convention Centre from 10th–13th September 2025. His paper, titled “Numerical Study for Anode Shape Prediction with Different Tool Designs in Electrochemical Milling of Titanium Alloy,” focused on the numerical modelling of electrochemical milling to analyze the influence of tool design on titanium alloy processing.



Mr. Prashant Veer (ME22DP002) from the Additive Manufacturing and 4D Printing (AM4D) Lab, presented his research titled “Enhancing Surface Properties of Directed Energy Deposition Additive Manufactured Components Through Shot Peening” at the American Society of Mechanical Engineers - International Mechanical Engineering Congress & Exposition (IMECE India) 2025, held at the Hyderabad International Convention Center, Hyderabad, from 10th to 13th September 2025.

Mr. Soumya (EE21BT049), Ms. Namrata T (EE23MS004), Mrs. Nagaratna S (EE23DP006), and Prof. Saroj Mondal from IIT dhArwAD presented four technical papers at VLSI Design and Test (VDAT) 2025, held in Chandigarh. The VDAT Symposium, supported by the VLSI Society of India (VSI), serves as a premier platform for academia, researchers, startups, and industry professionals to exchange ideas and innovations in VLSI Design and Testing.



Mr. Nirmal S (CS25MRX01) from the Dept. of CSE, India's youngest Perplexity Fellow, had the exclusive opportunity to engage in strategic discussions with Jensen Huang, Founder of NVIDIA, and Aravind Srinivas, Founder & CEO of Perplexity. He has showcased remarkable entrepreneurial spirit as the founder of Oqlous AI — a Perplexity-backed startup recognized among the Top 35 in the Google for Startups Accelerator Program.



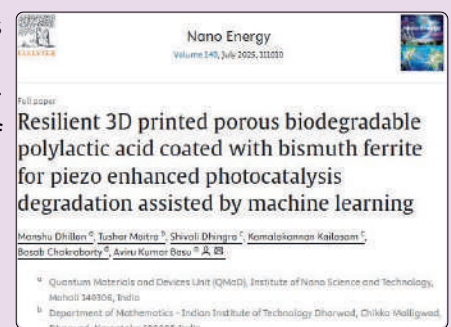


Mr. Abhinag Shantharam, Ph.D. Research Scholar, Dept. of CIE, won the Best Paper Award at SMSSCR 2025, held from 2nd–4th August 2025 at the National Institute of Technology (NIT) Meghalaya for his paper titled “Evaluation of Lime-Activated Bottom Ash as Filler in Cold Mix Asphalt for Green Pavements.”



Mr. Krishna Mishra (ME22BT019), a student from the Dept. of MMAE, made his national television debut as an actor in the popular TV serial Parineeti, aired on Colors TV and JioCinema. He appeared in episodes 1167 and 1168, marking an inspiring example of balancing academic pursuits with creative passion.

A research article co-authored by Mr. Tushar Moitra (IS22BM036) has been published in Nano Energy (Elsevier, Impact Factor: 17), marking a significant advancement in AI- and nanotechnology-driven water purification. The work received recognition from the Department of Science and Technology (DST), Government of India, and was featured in leading media outlets, including The Tribune and The Indian Express. The research and the lab were also endorsed by renowned chemist Dr. D.D. Sarma, underscoring the innovation's impact in sustainable and intelligent water treatment technologies.



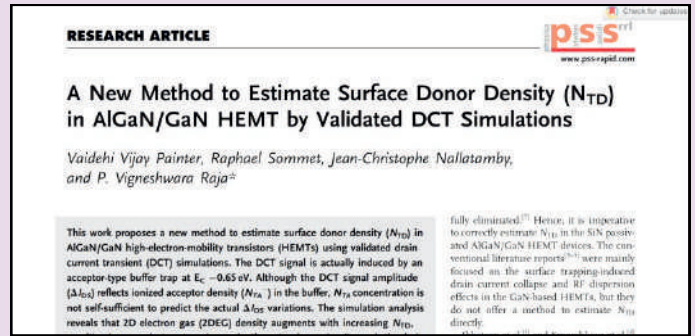
Ms. Shikha Kumari (EE22DP006) under the supervision of Prof. P Vigneshwara Raja from the Dept. of EECE published her research titled “Modified TCAD Simulation Approach for 4H-SiC JBS Diode to Investigate Electron Trapping Effects” in the Microelectronics Reliability Journal. The study utilized the device characterization and simulation facilities at IIT dhArwAD and was strengthened through collaboration with the Ampere Lab, INSA Lyon, France. The work also benefited from high-voltage reverse IV measurements performed at the MSD Lab, IISc Bengaluru, by Prof. Mayank Shrivastava and his research team. This collaborative effort underscores IIT dhArwAD's growing contributions to semiconductor device reliability and advanced materials research.



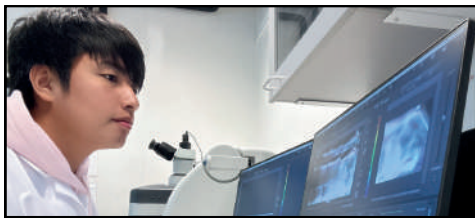
Mr. R. Eshwar (B.Tech – CSE, 4th year) delivered a talk titled “PyDRA – A Pythonic DSL for RAN” at the Workshop on Innovations in Compiler Technology, held at the Indian Institute of Science (IISc), Bengaluru, on 27th September 2025. He presented ongoing collaborative work with Rohit Garg (B.Tech – CSE, 4th year), Samarth Chitnis (B.Tech – CSE, 4th year), and Gurjaipal Singh (B.Tech – MnC, 4th year). The team is jointly advised by Prof. Nikhil Hegde (Dept. of CSE) and Mr. Makarand Kulkarni (Tejas Networks), focusing on advancing compiler technologies for Radio Access Networks (RAN) through innovative Python-based domain-specific language development.



Mr. Vinayak B. Patil (HS24DP006) participated in the Climate Corps Summer School held at Korea University, Seoul, from 6th-13th July 2025—a global event bringing together participants from 35 universities across six continents to foster interdisciplinary research on climate change. Representing IIT dhArwAD and the Dept. of HEART in the Energy Transition category, Mr. Patil presented a proposal titled “Sewage to Sustenance.”



Ms. Vaidehi Painter (EE22DP005) under the supervision of Prof. P Vigneshwara Raja from the Dept. of EECE published her research titled “A New Method to Estimate Surface Donor Density (NTD) in AlGaIn/GaN HEMT by Validated DCT Simulations” in Physica Status Solidi (RRL) – Rapid Research Letters. The work presents a novel simulation-based approach to characterize GaN-based HEMT devices, contributing to advancements in high-performance semiconductor research.



Mr. Jiro Karlo (BB21DP001), Ph.D. scholar working under the supervision of Prof. Surya Pratap Singh in the Dept. of BSBE, recently published a review article titled “Raman Stable Isotope Probing (SIP): A Novel Bio-Analytical Tool” in the prestigious journal Trends in Analytical Chemistry (Impact Factor: 12).

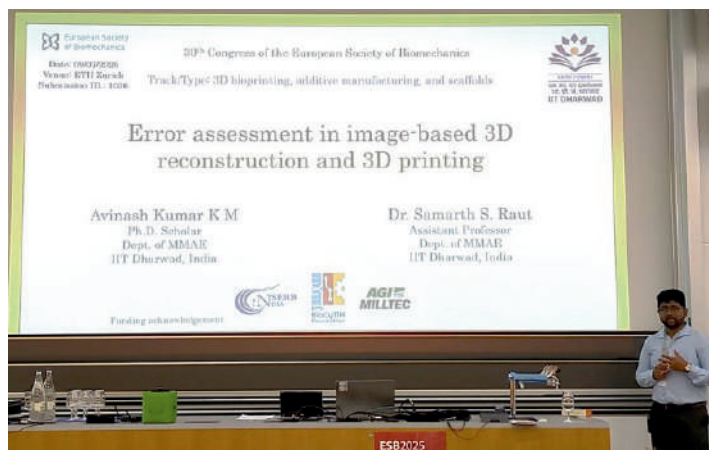
Ms. Zin Mar Myint (MA20DP001), Ph.D. scholar from the Department of Mathematics, successfully defended her dissertation titled “A Study on Structural Graph Theory through Combinatorial Games.” Guided by Prof. Sagnik Sen, her research makes a noteworthy contribution to the evolving field of structural graph theory, integrating profound mathematical concepts with the dynamics of combinatorial games.



The Dept. of CSE, organized the Innovation Hackathon 2025, a nationwide initiative that brought together students, startups, and professionals to develop innovative solutions using technology. The hackathon focused on AI-driven networks, IoT applications, smart healthcare, industrial automation, and quantum communication. Participants benefited from access to state-of-the-art labs, expert mentorship, seed funding, and commercialization support, enabling them to transform groundbreaking ideas into practical and scalable prototypes.



Ms. Anitha Nayak (CE23DP001), working under the supervision of Prof. Ramesh Nayaka, received the “Best Technical Paper Award” for her paper titled “Optimization and Performance Evaluation of Recycled Fine Aggregate Replacement for 3D Concrete Printing” at the 3rd International Conference on Construction Materials and Structures (ICCMS 2025). The conference was organized by the Department of Civil & Environmental Engineering, Indian Institute of Technology tirupati, Andhra Pradesh, from 3rd-5th July 2025, recognizing her outstanding contribution to sustainable construction and 3D concrete printing research.



Mr. Avinash Kumar K. M (ME20DP002), under the supervision of Prof. Samarth Raut, from the Dept. of MMAE, presented a paper titled "Error Assessment in Image-Based 3D Reconstruction and 3D Printing" at the 30th Congress of the European Society of Biomechanics (ESB 2025), held from 6th–9th July 2025 at ETH Zurich, Switzerland.

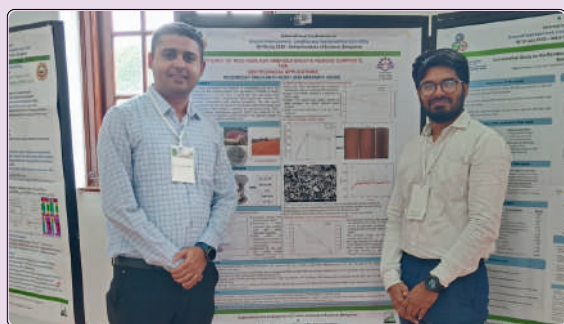


Ms. Simita Das (CY20DP001), Ph.D. student under the supervision of Prof. Nilkamal Mahanta, Dept. of Chemistry, presented a poster at the "35th CRSI Symposium in Chemistry & ACS Lectures" held at the Indian Institute of Technology Gandhinagar from 3rd–5th July 2025. She was awarded the Best Poster Award along with a cash prize for her outstanding research presentation.



Ms. Annapurna Basayya Balulmath (CE23DP002), Mr. Abhishek Pawar (CE24DP001), and Mr. Godson M. D (CE23DP004), under the guidance of Prof. Giridhar Rajesh Bande, presented a technical poster titled "Influence of Extreme Rainfall Events and Axle Loads on Railway Embankment: A Numerical Study" at the International Conference on Ground Improvement, Landfills, and Sustainability (GLS-2025) held at IISc Bengaluru during 18th–19th July 2025. The team received the Best Poster Award, recognizing their excellence and impactful contribution to the field of geotechnical engineering.

AM4DP Lab and MPC Lab, guided by Prof. Somashekara M A. and Prof. Anbukkarsi Rajendran, Department of MMAE, IIT dhArwAD, recently participated at the 4th International Conference on Friction-based Processes (ICFP) 2025, tirupati (6–8 Sept). Congratulations to Mr. Vinayaka E Bodur (ME24DP009) for winning the Best Oral Presentation for his work on "ML-based Prediction & Optimization of Friction Stirring in Aluminium Plates" and to Mr. Prashant Veer (ME22DP002) for winning the Best Poster Presentation for "Microstructure Tailoring via Shot Peening for WAAM Mild Steel."



Dr. Sreekanth Reddy, Research Associate-III, under the mentorship of PProf. Amarnath Hegde, Dept. of CIE, was awarded Best Poster Presenter at the International Conference on Ground Improvement, Landfills, and Sustainability (GLS-2025) held on July 18–19, 2025, at IISc Bengaluru. His poster titled "Efficacy of Rice Husk Ash Amended Bauxite Residue Composite for Geotechnical Applications" showcased innovative research in sustainable geotechnical engineering.



WELCOME TO IIT dhArwAD

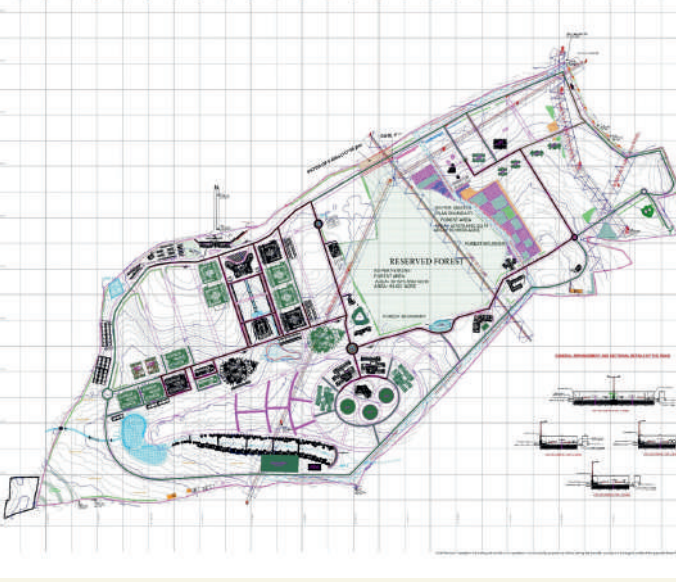


From Left to Right: PROF. Venkappayya R dEsAi, Director, Prof. Shashwata Ghosh, Assistant Professor, Chemical Engineering, Prof. Suvamay Jana, HoD, Chemical Engineering, Prof. Ashok Kumar Ummireddi, Faculty In-Charge [(EOC), (CEP) and (QIP)]-2, Prof. C Ravikumar, Associate Dean [General Outreach], Prof. Varaha Jayarama Krishna Jonnalagedda, Assistant Professor, Chemical Engineering and Prof. Dhriti Sundar Ghosh, Associate Dean (Academic Program) – II [PG] and Academics – Documentation



From Left to Right: PROF. Venkappayya R dEsAi, Director, PROF. Dileep A D, Dean [Administration], Shri Muniramaiah Reddivari, Junior Technical Superintendent [Physics Dept.], Shri Bishwanath Gorai, Junior Technician [MMAE Dept.], Shri Karthick S, Junior Technical Superintendent [CIE Dept.], Shri Ajay Kumar Thuppathi, Junior Assistant, [F&A Section], Shri Srikanth Sambu, Junior Superintendent [IPS Section], Shri Guruprasada T, Junior Assistant [CSE Dept.], Shri Praddumn Dwivedi, Junior Assistant [Academics Section], Shri Manjunatha U B, Junior Assistant [Academics Section] and Dr. Kalyan Kumar Bhattacharjee, Registrar.

A New Era of Innovation & Excellence at IIT dhArwAD – Hon'ble Prime Minister Shri Narendra Modi virtually laid the Foundation Stone for Phase B Expansion



The Indian Institute of Technology (IIT dhArwAD) reached another significant milestone as Hon'ble Prime Minister Shri Narendra Modi virtually laid the foundation stone for Phase B development works on 27th September 2025.

During his address, the Prime Minister emphasized on India's vision of Atmanirbhar Bharat, highlighting the call for "Chip to Ship" self-reliance and the importance of advancing higher education, research, innovation, and digital connectivity across the nation.

The ceremony was graced by Union Ministers, State Leaders, and other distinguished guests, along with faculty, staff, and students of IIT dhArwAD.

The event marked a moment of pride and progress for the institute, reinforcing IIT dhArwAD's commitment to excellence in education, research, and innovation. The Phase B development will expand the institute's academic and residential capacity to host around 2,800 students, along with new faculty and staff facilities, cutting-edge laboratories, and research centers.



Credits : Public Relations Team, IIT dhArwAD

VOLUME 3 | ISSUE 4 | OCTOBER 2025



+91 83623 09666



www.iitdh.ac.in



pro@iitdh.ac.in



IIT dhArwAD Campus, ChikkamalligawAD, dhArwAD-580 011, KarnATaka