

MAY 2026

ICFAI TECH - NEWSLETTER



From the Director's Desk:

It gives me immense pleasure to present this edition of the ICFAI Tech Newsletter, which reflects our institution's unwavering commitment to academic excellence, impactful research, innovation, and holistic development. Every achievement highlighted in these pages is a testament to the dedication, perseverance, and collaborative spirit of our faculty, students, researchers, and staff.

I am delighted to share that ICFAI Tech has earned remarkable recognition in several prestigious national ranking frameworks this year.



Prof. K.L. Narayana

**Director,
ICFAI Tech.**

Securing the 7th Rank among Private Engineering Colleges in India in the Times of India Engineering Institute Rankings, 15th Rank nationally in the GHRDC Engineering Rankings 2026, and 14th All India Rank in the IIRF Engineering Rankings 2026, along with outstanding state and regional rankings, reaffirms our steadfast pursuit of excellence in teaching, research, placements, and innovation. These accomplishments inspire us to continually raise our standards and strengthen our contribution to engineering education.

Our faculty members continue to make significant contributions to the global research community through publications in reputed SCI and Scopus-indexed journals and presentations at international conferences. Their work in advanced manufacturing, artificial intelligence, additive manufacturing, composite materials, aerospace technologies, and electrical systems demonstrates the interdisciplinary nature of research at ICFAI Tech and our commitment to addressing real-world challenges through innovation. Equally commendable are the professional achievements of our faculty through peer-review contributions, faculty development programs, certifications, and participation in technical webinars, reflecting a strong culture of continuous learning and academic excellence.

A major milestone during this period was the signing of the Memorandum of Understanding between the Centre of Excellence in Robotics & Advanced Manufacturing (CERAM), ICFAI Tech, and the JNTUH Technology Business Incubator. This collaboration will promote innovation, startup incubation, defence technology development, and entrepreneurship while providing valuable opportunities for students and researchers to transform innovative ideas into impactful solutions.

As we celebrate these achievements, we remain focused on our vision of nurturing competent professionals, innovative researchers, and responsible citizens. We will continue to strengthen our academic ecosystem through quality education, cutting-edge research, industry partnerships, and entrepreneurial initiatives that prepare our students to thrive in an ever-evolving global landscape.

I extend my heartfelt congratulations to all faculty members, students, researchers, alumni, and staff whose dedication and collective efforts have contributed to these remarkable accomplishments. Let us continue to work together with enthusiasm, integrity, and determination to achieve even greater milestones in the years ahead. I wish all our readers an inspiring and enriching experience as they explore this edition of the newsletter.

Warm regards,
Prof. K.L. Narayana
Director, IcfaiTech

FACULTY ACHIEVEMENTS:

Research Publications

Dr. A. Manmadha Chary, Associate Professor, Department of Mechanical Engineering, published a research article titled "Machine learning based prediction and optimization of mechanical performance in 3D printed continuous carbon fiber reinforced onyx composites" in the Q1 indexed SCI journal "Discover Materials" in May 2026.



Dr. A. Manmadha Chary

Dr. A. Manmadha Chary, Associate Professor, Department of Mechanical Engineering, published a research article titled "Multi-objective optimization of selective laser melting parameters for enhanced energy efficiency, surface quality and microhardness" in the Scopus indexed journal "MRS Communications" in May 2026.

MRS Communications

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<https://doi.org/10.1557/s43579-026-00983-2>



Advances in Additive Manufacturing: Materials, Sustainability,
and Design Research Letter



Multi-objective optimization of selective laser melting parameters for enhanced energy efficiency, surface quality and microhardness

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Abstract

Selective Laser Melting (SLM) is an additive manufacturing process used to fabricate complex metallic components by building them layer by layer. In this technique, a high-energy laser serves as the heat source, and fine metal powder is used as the raw material. However, balancing part quality and energy efficiency remains challenging. This study presents an integrated optimization framework to enhance energy efficiency, microhardness, and surface roughness in SLM. Design of experiments is employed to systematically plan and analyze the experiments. Analysis of Variance identifies the influence of key process parameters, while regression models establish quantitative relationships between inputs and responses. These models are integrated with a Multi-Objective Particle Swarm Optimization algorithm in MATLAB to obtain Pareto-optimal solutions. Validation experiments confirm notable improvements in both energy efficiency and mechanical performance.

Research Publications

Dr. A. Chandrashekar, Associate Professor, Department of Mechanical Engineering, published a research article titled "Development and characterization of Loofah vine stem fiber-volcanic pumice dust reinforced 3d printed bio composites: mechanical, wear, thermal, and wettability analysis" Chem. Pap. (2026).



Dr. A. Manmadha Chary

Dr. A. Chandrashekar, Associate Professor, Department of Mechanical Engineering, published a research article titled "An efficient YOLOv12-based framework for detecting extremely small-scale objects" in scientific reports.

Dr. A. Chandrashekar, Associate Professor, Department of Mechanical Engineering, published a research article titled "Influence of biosilica reinforcement on load-bearing, wear, and time-dependent behaviour of PLA nanocomposites fabricated via fused deposition modelling" in Journal of Composite Materials. 2026.

Dr. A. Chandrashekar, Associate Professor, Department of Mechanical Engineering, published a research article titled "Development of AI-Based Control Systems for Electric Vertical Take-Off and Landing (eVTOL) Vehicles," 2025 Tenth International Conference on Science Technology Engineering and Mathematics (ICONSTEM), Chennai, India, 2025.

Dr. A. Chandrashekar, Associate Professor, Department of Mechanical Engineering, published a research article titled "Multimodal AI-Assisted DC-DC Converter Optimization for Lightweight Electric Aircraft Power Systems," 2025 Tenth International Conference on Science, Technology, Engineering, and Mathematics (ICONSTEM), Chennai, India, 2025.

Dr. A. Chandrashekar, Associate Professor, Department of Mechanical Engineering, published a research article titled "Integration of AI-Driven Power Management in Aerospace Electrical Systems," 2025 Tenth International Conference on Science Technology Engineering and Mathematics (ICONSTEM), Chennai, India, 2025.

CERTIFICATION

Reviewer

Dr. Asisa Kumar Panigrahy, Associate Professor, Dept. of ECE, reviewed the manuscript entitled "Fundamental Characteristics of Inorganic Electroluminescent Device Driving Circuits Using Boundary Conduction Mode Control" which was submitted to Micro and Nanosystems. The feedback provided by Asisa Kumar Panigrahy has significantly contributed to the rigorous peer-review process of this journal.



Dr. Asisa Kumar Panigrahy



Participation

Dr. Asisa Kumar Panigrahy, Associate Professor, Dept. of ECE, attended the webinar titled "Mastering 5G mmWave Beamforming and Phased Array Antenna Design (Antenna Series Part - II)." Conducted on 12th May. Organized by ARK Infosolutions Pvt. Ltd. in collaboration with Ansys.

Dr. Asisa Kumar Panigrahy, Associate Professor, Dept. of ECE, attended the webinar titled "Accelerating Antenna Design Optimization with Electromagnetic Simulation (Antenna Series Part - III)." Conducted on 26th May 2026, organized by ARK Infosolutions Pvt. Ltd. in collaboration with Ansys.

Dr. Sudheer H, Associate Professor, Dept. of ECE, successfully completed two FDPs, 1) QT-09: Engineering Foundations of CS (10/04/2026 to 02/05/2026) and 2) QT-10 Solid State Physics for Quantum Technologies (08/05/2026 to 11/05/2026) jointly organized by MNITJ, IITG, IITK, IITR, NITP, NITW & IIITDM with an excellent grade.



Dr. Sudheer H

EVENTS

IcfaiTech Achieves Excellent Performance in IIRF Engineering Rankings 2026

IcfaiTech, Hyderabad, has added another significant achievement to its academic journey by securing an impressive position in the **International Institutional Ranking Framework (IIRF) India Engineering Rankings 2026**. The rankings reaffirm the institution's commitment to academic excellence, innovation, research, and quality engineering education.

In the 2026 rankings, IcfaiTech secured the **14th All India Rank among Top Engineering Colleges (Government & Private)**, **3rd Rank in Telangana**, and **9th Rank in the South Zone**, with an overall score of **840.12 out of 1000**. These accomplishments reflect the institution's sustained focus on delivering high-quality education, fostering impactful research, strengthening industry collaborations, and promoting holistic student development. The consistent recognition in national ranking frameworks is a testament to the dedication and collective efforts of the faculty, students, researchers, leadership, alumni, and staff. IcfaiTech remains committed to advancing excellence in teaching, research, innovation, and entrepreneurship while preparing future-ready engineering professionals who can contribute to society and the nation.

ICFAI Tech Excels in GHRDC Engineering Rankings 2026

ICFAI Tech, Hyderabad, has once again demonstrated its academic excellence by achieving impressive positions in the **GHRDC Engineering Rankings 2026**. The institution secured the **15th Rank among the Top Engineering Colleges in India (Government & Private)**, improving from

16th Rank in 2025. At the state level, ICFAI Tech retained its **3rd Rank** among the Top Engineering Colleges in Telangana (Government & Private) for **the second consecutive year**.

These rankings reflect the institution's unwavering commitment to quality education, innovative research, industry-oriented learning, and holistic student development. The consistent recognition at both the national and state levels underscores the collective efforts of the faculty, students, leadership, alumni, and staff in fostering academic excellence and institutional growth.

ICFAI Tech remains committed to strengthening its position as a premier institution by advancing excellence in teaching, research, innovation, and industry engagement while preparing future-ready engineering professionals.

The banner features the ICFAI Tech logo at the top left, with the text 'Faculty of Science & Technology (FST)' below it. The main headline reads 'Celebrating EXCELLENCE THAT INSPIRES!' in large, bold letters. Below this, a blue bar states 'PROUD MOMENT FOR ICFAI TECH, HYDERABAD'. The central text says 'We are delighted to share our outstanding performance in GHRDC – ENGINEERING RANKINGS 2026'. A table below shows the rankings for 2026 and 2025. The table has two main columns: 'OVERALL RANK IN INDIA' and 'STATE WISE RANK'. Each column has two sub-columns for 2026 and 2025. The 2026 overall rank is 15th (improved from 16th in 2025), and the 2025 overall rank is 16th. The 2026 state rank is 3rd (maintained from 3rd in 2025), and the 2025 state rank is 3rd. The banner also includes a photo of the ICFAI Tech building and a 'TOP RANKED IN INDIA' badge. At the bottom, it says 'Building Futures. Creating Impact. Leading Today. Inspiring Tomorrow.' and 'Congratulations to our Faculty, Students, Alumni, Staff, Recruiters & Stakeholders for this remarkable achievement!'. The footer text is 'ICFAI Tech, Hyderabad – Empowering Minds, Transforming Lives!'.

OVERALL RANK IN INDIA		STATE WISE RANK	
2026 Among Top Engineering Colleges of India (Govt. & Pvt.) 15th RANK Improved from 16 th Rank in 2025	2025 Among Top Engineering Colleges of India (Govt. & Pvt.) 16th RANK	2026 Among Top Engineering Colleges of Telangana (Govt. & Pvt.) 3rd RANK Maintained 3 rd Rank in 2025	2025 Among Top Engineering Colleges of Telangana (Govt. & Pvt.) 3rd RANK

TOP RANKED IN INDIA

*Building Futures. Creating Impact.
Leading Today. Inspiring Tomorrow.*

Congratulations to our Faculty, Students, Alumni, Staff, Recruiters & Stakeholders for this remarkable achievement!

ICFAI Tech, Hyderabad – Empowering Minds, Transforming Lives!

ICFAI Tech Achieves Top Rankings in Times of India Engineering Institute Rankings

ICFAI Tech has achieved a significant milestone by securing outstanding positions in the prestigious **Times of India Engineering Institute Rankings**, reaffirming its commitment to academic excellence, research, and student success.

The institution secured the **7th Rank** among Private Engineering Colleges in India, **8th Rank** in the Overall Category, 7th Rank in Placements, and 10th Rank in Research. These remarkable achievements reflect the collective dedication and sustained efforts of the faculty, staff, students, leadership, and all stakeholders.

The recognition, particularly in the areas of Research and Placements, highlights ICFAI Tech's strong emphasis on innovation, industry engagement, quality education, and outcome-based learning. These accolades further strengthen the institution's reputation as a leading center for engineering education and inspire the community to strive for even greater excellence.

ICFAI Tech extends its heartfelt congratulations and gratitude to every member of its academic community

whose unwavering commitment has made this accomplishment possible. The institution looks forward to building on this success and achieving many more milestones in the years ahead.



CERAM, IcfaiTech Signs MoU with JNTUH Technology Business Incubator

The Centre of Excellence in Robotics & Advanced Manufacturing (**CERAM**), **IcfaiTech**, ICFAI Foundation for Higher Education (IFHE), Hyderabad, signed a **Memorandum of Understanding (MoU)** with the JNTUH Technology Business Incubator (JNTUH TBI) on 19 May 2026. The collaboration marks an important step toward strengthening innovation, entrepreneurship, and industry-academia partnerships in emerging technologies.

The MoU aims to promote startup incubation, defence innovation, and technology development under the **ASTRA 1.0 Defence Accelerator Program**. Through this partnership, **CERAM** and **JNTUH TBI** will work together to support innovative ideas, facilitate technology commercialization, and create a vibrant ecosystem for research and entrepreneurial growth.

The collaboration is expected to provide valuable opportunities for students, researchers, and startups by fostering innovation in advanced manufacturing, robotics, and autonomous technologies. It also reinforces IcfaiTech's commitment to nurturing innovation-driven education, research excellence, and meaningful industry engagement while contributing to the nation's technological advancement.



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