



Academic year - 2025

website: jyothyit.ac.in

JYOTHY INSTITUTE OF TECHNOLOGY

MECHYANTHRA

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Editor

Dr. T. S. Mohan Kumar

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VISION OF THE DEPARTMENT

To achieve excellence in Mechanical Engineering Education, Innovation, Research and Entrepreneurship.

MISSION OF THE DEPARTMENT

- M1. To provide an intellectually vibrant teaching learning environment
- M2. To inculcate in students a culture of Research and Innovation in Engineering
- M3. To produce future Entrepreneurs and Leaders with Technological Patriotism



JYOTHY INSTITUTE OF TECHNOLOGY

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ABOUT THE INSTITUTION

Jyothy Institute of Technology (JIT), managed by Jyothy Charitable Trust®, was started in the year 2011 with a mission to provide education in new frontiers of technology and their applications. The Trust was established by its Honourable President, Dr. B. N. V. Subrahmanya, a Karnataka Rajyotsava and Nada Prabhu Kempegowada Awardee, an industrialist and a social worker of repute.

The institution is ideally located 1km off Kanakapura Road, at Tataguni, about 3 km from NICE Road. It is spread over 10 acres with lot of greenery all around. It is built aesthetically and architecturally to meet all functional needs of class rooms while meeting all AICTE guidelines.

JIT offers internships to students of all branches to enhance strong industry-institute relationship. This provides them an invaluable opportunity to understand and implement industry standards and requirements. They are exposed to and get the chance to view, learn and imbibe new technologies and keep pace with current technological trends. The internships also help students to be industry ready as soon as they graduate.

CIIRC® (Centre for Incubation, Innovation, Research and Consultancy), the research arm of JIT, has emerged with a promise of ushering a new philosophy by bringing for the first time on the same platform diverse components of science, engineering, business orientation and skill development with emphasis on innovation, incubation and research leading to successful entrepreneurship. Complete understanding of all these three aspects thus forms the core of academic & research erudition at CIIRC®, JIT. The essential outcome of any academic pursuit apart from imparting knowledge should be to enable students to become readily employable or create their own industry, firm or enterprise. Hence, an IEDC (Innovation and Entrepreneurship Development Cell) has been established to nurture and hone the skills of the budding entrepreneurs. CIIRC® being a multi-disciplinary research centre aims to bring together complementary streams of activities for the larger benefit of society.

Domains envisaged at CIIRC® are Water, Health, Energy, Environment, Agriculture, Food, and Homeland Security, all addressing societal and environmental needs. Towards this, a platonic relationship has been built with a number of companies and institutions within and outside the country.



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ABOUT THE DEPARTMENT

The Department of Mechanical Engineering is functioning since inception of the college in the year 2011 with an annual intake of 60. It consists of highly dedicated, well qualified and competent faculty members active in teaching, research and building quality profile of students. Most of the faculty members are from reputed academic institutions with research and industry background contributing to implementation of industry oriented education to students. The department has laboratories as per University norms for hands-on training and is also into research in different vistas of mechanical engineering, showcasing the ability through quality publications jointly with the students & research scholars. All labs are developed taking into consideration the needs of academia and industry. Huge investment of over one crore is spent in establishing high profile labs.

The department is accredited by the NBA and is recognized nationally as one of the youngest department of the institute to be recognized by National Board of Accreditation (NBA for 3 years in 2018). Also, the department is a recognized R&D center by VTU, Belagavi. It has funded projects from national funding bodies contributing to significant improvements in the learning environment.

The Department has been arranging purposeful internships to students in various reputed industries and research organizations to enhance knowledge of applied/advanced technology. The department has several MOUs with various industries ranging from technical training establishments to manufacturing industries for transfer of knowledge. The department is a membership of professional bodies such as SAE, ISTE, etc. through student chapters in the campus bridging the gap between industry and academia. It has a student forum, “MECHISTA”, under which various technical and societal activities are conducted on a regular basis, where students are trained and supported for technical competitions like SAE AERO, SAE BAJA, etc. In a nutshell, the department regularly conducts events such as internship programs, technical talks by experts, department forum, industrial visits, entrepreneurship development programs and training on modeling, soft skill training, ECO Kart and AERO Club under the banner of SAE India.



Even Semester: March - June 2024

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From the HOD' S Desk
Greetings to faculty and students!

It gives me immense pleasure to present this report highlighting the achievements and initiatives of the Department of Mechanical Engineering during the past for the Academic Year 2024 -25.

Participation of faculty in various conferences and training programs and publications was a very encouraging factor, which shall continue in future too. During this semester, various curricular and co-curricular activities for students were successfully conducted by the department. The department strongly encourages students to participate in SAE Aero international competition in the USA and the National Eco-Kart event in India. It supports both students and faculty by periodically sponsoring them to relevant seminars, symposia, workshops, industrial visits, industrial training and technical talks as an integral part of the program.

Dr. C. B. Mohan
Vice Principal & Head



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ACTIVITIES

The three days skill development programme Product Design and Development - Simulation was organized for IV Semester and VI Semester students of Mechanical Engineering from 4th April to 6th April 2025 by the Department of Mechanical Engineering, Jyothy Institute of Technology, Bangalore



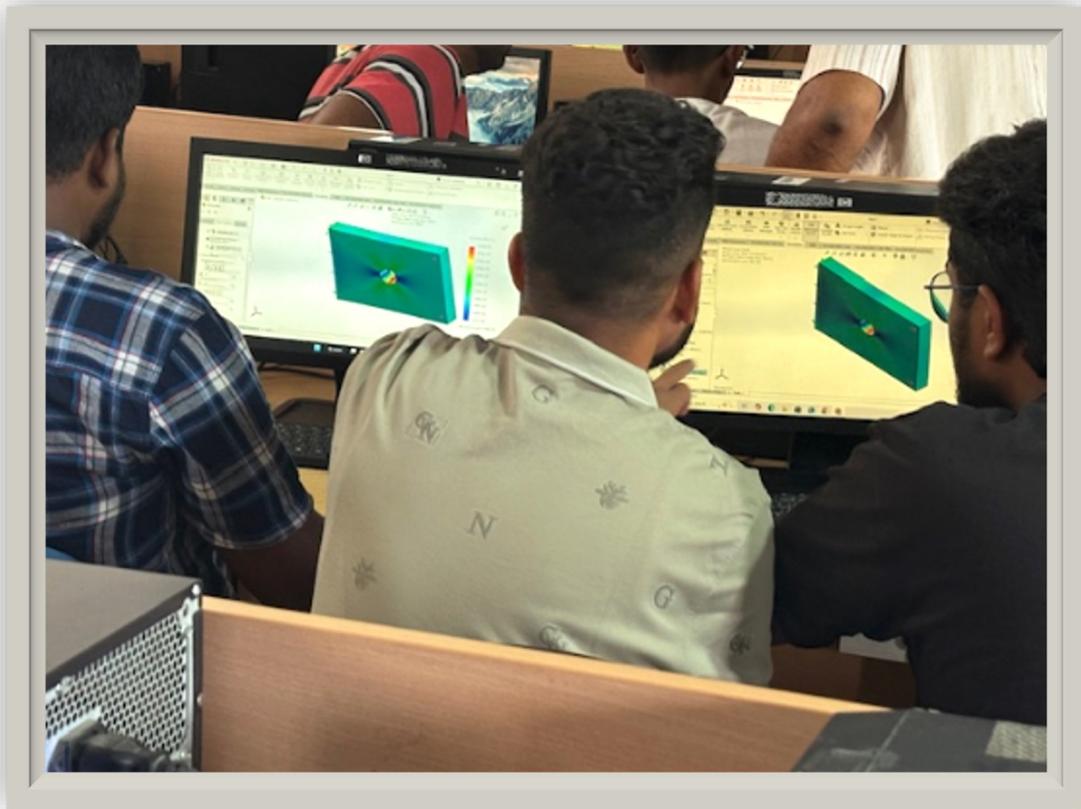


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ACTIVITIES

The practical session with structural problems on (Beams), stress concentration problems. The hands-on session were given to the students utilizing the finite element analysis software. Finally, all students modelled and analyzed the problems and prepared the detailed report.





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The three days orientation programme was given on Additive Manufacturing / 3D Printing theory and practical sessions was organized for I Semester students of all branches . The students were exposed to theory and practical sessions from 17th September to 19th September 2025 by the Department of Mechanical Engineering, Jyothy Institute of Technology, Bangalore





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LIST OF PUBLICATIONS

1. Subbaraya Mohan Kumar, Evaluation of mechanical and fatigue properties of Al-hybrid composite for automotive applications. , Brazilian Journal of Development , August 2025 DOI:DOI:10.34117/bjdv11n9-001.