



*Even Semester: March - June 2022*

*website: [jyothyit.ac.in](http://jyothyit.ac.in)*

## JYOTHY INSTITUTE OF TECHNOLOGY

# MECHYANTHRA

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### Editors

Dr. G. C. Vijayakumar

Dr. T. S. Mohan Kumar

#### List of Faculty

Dr. K Gopalakrishna

Dr. C B Mohan

Dr. G C Vijayakumar

Dr. M Narendra Kumar

Dr. K Raghavendra

Mr. K V Muralidhar Sharma

Dr. T S Mohan Kumar

Dr. J V Raghavendra

Dr. H R Aniruddha Ram

Mr. M Jayathirtha Patil

Mr. P Rakesh

Mr. C. Yogeasha

Mr. B K Rakesh



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**JYOTHY INSTITUTE OF TECHNOLOGY**

**MECHYANTHRA**

## **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



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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 Honorable 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.



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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



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### **From the HOD'S Desk**

*Greetings to faculty and students!*

I am delighted to release the even semester newsletter of Mechanical Engineering Department for the Academic Year 2021 -22. Accreditation by National Board of Accreditation for three years, beginning 2018, has been an important milestone achieved by the department.

The department of mechanical engineering, with an intake of 60 students, consists of highly dedicated, well qualified and competent faculty members engaged in active learning, R&D, and building the output quality of its graduating students. Most of the faculty are from reputed academic institutions with sound research and industry background, contributing to the implementation of industry-oriented learning. Their research work, executed with contributions from select students and research scholars, is published in some of the prestigious journals in India and abroad. All laboratories are modernized to keep pace with the times. The department is accredited by the NBA until the year 2021-22. Being a recognized R&D center by VTU, Belagavi, the department offers a



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master's program in product design and manufacturing and a doctoral program in mechanical engineering and sciences. It currently has several projects funded by national funding bodies contributing to significant improvements in the learning environment with interested students getting the unique opportunity to take on work on such real-time projects. The magazine provides students with a platform to express and exhibit their skills and talent. On this occasion, it is my pleasure to present the department to the avid readers. 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.



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### ACTIVITIES

A project exhibition was organized on July 28, 2022 by the department for final year mechanical engineering students. Dr. C B Mohan, Vice principal and HoD, welcomed and introduced the Chief, Sri. Mohan Paul, General Manager (Operations), SJS Technologies, Bangalore.



Sri Mohan Paul highlighted emerging and current trends in technologies, innovations and the relevance of industry-relevance projects. He stressed the implication of patents and copyrights in changing the technology landscape.

A total of 15 groups displayed their final year projects. Sri. Mohan Paul visited all the project groups and actively interacted with the students. Students enthusiastically presented and demonstrated their work, and explained its application and industry relevance.



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The first prize was awarded for the project **Prevention of Metal Corrosion using Plant Extracts** executed under the guidance of Dr. Raghavendra K and Dr. Naganand G S, of CIIRC. The second prize was awarded for the project **A Novel Approach to Convert Wind Turbine Blade Wastes into High Strength Composites for Industrial Applications** executed under the guidance of Dr. Narendra Reddy and Dr. C B Mohan. The third prize was awarded for the project **Multipurpose 3-Axis Machine**



**Sri. Mohan Paul interacting with the students**





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NATIONAL/INTERNATIONAL COMPETITION

Students from JIT-SAE participated in the competition, **SAE Aero Design (Micro Class) International Team** that was to be held in Texas in April 2021, but due to the pandemic, it was made completely virtual. The basic rule of the competition is to build an unmanned aerial vehicle with a minimum prototype weight that will be able to lift a maximum payload depending on the design of the aircraft. The assembly of the aircraft should be completed within 2 minutes to obtain the overall score. The major limitation was that the aircraft must fit into a box of dimensions 30cm x 35cm x 9cm. Once assembled, it will be checked for all the parameters such as wingspan, total length of the aircraft, etc.

The competition was held in three major categories: Micro Class, Regular Class and Advanced Class. The team participated in the Micro Class category. The competition was judged on parameters such as Assembly demonstration, Technical Inspection, Technical presentation, Design report and the Technical presentation. The team won the overall standing of 10<sup>th</sup> place globally.





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Mr. Prasad K has bagged the Golden medal by securing First Rank in VTU M.Tech – PDM PG Course in the year 2021-2022, being facilitated by Principal and Management of Jyothy Institute of Technology.

## STUDENTS PARTICIPATION AND ACHIEVEMENTS

### Gold medal bagged by First Rank holder in M Tech



## Branch Overall Toppers:

P.SANJAY		
USN: 1JT18ME021	Sem	GPA
	I	7.90
	II	8.23
	III	8.20
	IV	8.41
	V	8.21
	VI	8.16
	VII	8.24
	VIII	9.51
Cum. GPA (CGPA):		8.35

RAKSHA V HOYSAL		
USN: 1JT18ME028	Sem	GPA
	I	8.40
	II	8.43
	III	8.25
	IV	8.44
	V	8.42
	VI	8.42
	VII	8.50
	VIII	9.57
Cum. GPA (CGPA):		8.55

ASHWINI KRISHNA		
USN: 1JT18ME004	Sem	GPA
	I	7.60
	II	7.90
	III	7.58
	IV	8.42
	V	8.00
	VI	8.38
	VII	8.60
	VIII	9.90
Cum. GPA (CGPA):		8.55