



JYOTHY INSTITUTE OF TECHNOLOGY

MECHYANTHRA

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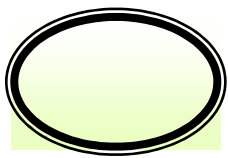
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JYOTHY INSTITUTE OF TECHNOLOGY



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

MECHYANTHRA

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.



JYOTHY INSTITUTE OF TECHNOLOGY



ABOUT THE DEPARTMENT

The Department of Mechanical Engineering is functioning since inception of the college in the year 2011 with an annual intake of 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



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 2022 -23. The department of mechanical engineering, with an intake of 30 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. Being a recognized R&D center by VTU, Belagavi, the department offers a 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

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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.

A handwritten signature in black ink, appearing to be 'L. J. J.', written over a horizontal line.

ACTIVITIES

1.	Date:	18.08.2023
2.	Industry Name and Address:	TOYOTA KIRLOSKAR MOTORS PVT LTD Regd. Off.:Plot No. 01, Bidadi Industrial Area, Bidadi - 562 109, Ramanagara Dist., Karnataka, INDIA.
3.	Industry Type:	Automotive Manufacturing Facility
4.	No of faculty:	26 members from various Engineering Colleges Across Karnataka
5.	Organised By:	 BITES - Board for IT Education Standards in association with Toyota Kirloskar Motors Pvt Ltd
5.	BITES Representatives	1. Smt. Jyothy- BITES Office Coordinator 2.Prof. Bhargav- BITES Program Coordinator.

Industrial Visit was organized by **BITES**- Board for IT Education Standards to *M/s Toyota Kirloskar Motors Pvt Ltd, (TKMPL)* Bidadi plant on 18.08.2023 for Teaching Faculties from various Engineering and Management College across Karnataka. A total of 26 Faculty members visited M/s TKMPL campus accompanied by Prof. Bhargav and Smt. Jyothy from BITES.

All Visitors were informed to assemble near Kengeri metro Station by 8.30 am, where TKMPL vehicle was arranged for the visit. Mr. Arun Kumar San from TKMPL, Leadership and Industrial relation department welcomed and accompanied all faculty members to Industry Campus.

All Visitors were welcomed, followed by refreshment and Mr. Jagadeesh San along with TKMPL Intern Ms. Supriya san and her team addressed the gathering and Informed about the days schedule. Mr. Jagadeesh San gave brief corporate presentation on TKM growth story followed by presentation by Mr. Venkatesh san from TKMPL, Leadership and Industrial relation department gave presentation on Best Practices of Toyota and their Manufacturing Philosophy. Mr. Venkatesh san taught us about TKMPL journey in practicing International standards in quality, most of them derived from Japan. Also from presentation we were pleased to know about how TKMPL is in forefront in implementing quality tools like Toyota Production system Kanban System, Pattern Production System, Kaizen ,Just in Time (JIT), Safety Trolley Movement, Karakuri System, Heijunka, etc.

Also Dr. Selvan Co-Chairperson BITES, Bengaluru address the gathering about the efforts made by BITES

to get the permission for TKM plant Visit and usefulness of the program. Also Mr. Venkatesh san and his team made effort to teach Lean Manufacturing system by practical demonstration, where every faculty member was made has party on role who resemble actual process owners of a manufacturing company, different roles are designated for each of the faculty like dealer, customer, assemble personnel's, transport personnel's, manager, supervisor, CEO etc then mock manufacturing and distribution of Finished goods was played, it was the best part of the visit , every one of us realized how important is lean Manufacturing Process. At 12.00 pm the Plant Visit was scheduled ,where Mr. Nagesh san and his team accompanied all faculty members in 2 batches to visit Production lines of Toyota, This plant mainly produces existing models of the Toyota like Toyota Glanza, Legender, Rumion, Camry Hybrid, Innova Crysta , Fortuner, Innova Hycross, Urban Crusier Hyryder. There were totally 4 different section of manufacturing a automobile namely Press shop, Weld Shop, Painting Shop and Assembly section, We had a opportunity to see real time manufacturing practices in assembly section and Assembly section had about 21 different station and all parts right from engine, tyres and electrical unit, wind shield and dash board etc were assembled at this section.

After Lunch session, Ms. Supriya San and team accompanied Visitors for Toyota Technical Training Institute (TTTI), Where Mr.Pai, Vice Principal of the Institute received us and gave Presentation about achievements and growth story of TTTI, he also took all of us to various labs of TTTI, all of us were very much impressed about the practical approach of the institute to impart present day technical skills required to its students.

Even we had Opportunity to know about the Corporate Social responsibility (CSR) initiatives taken by TKMPL which include building of schools, public toilets, Greenathon practices, Toyota Technical Training Institute (TTTI), Eco zone initiative by Toyota etc. . Overall it was excellent and eye opening Visit to a industry which practices International Manufacturing Standards assuring quality in every step and Sustainable manufacturing practices.

INDUSTRIAL VISIT



Dr. Selvan Co-Chairperson BITES, Bengaluru addressing the gathering about the efforts made by BITES to get the permission for TKM plant Visit and usefulness of the program, at TKMPL, Bidadi Bengaluru.



Mr. Venkatesh San, Senior Manager TKMPL Bengaluru giving demonstration on Lean Manufacturing Methods to the gathering.



Mr. Pai san, Vice Principal, addressing the gathering, at Toyota Technical Training Institute, TKMPL, Bidadi Bengaluru.



Mr. Shankara G , Vice President, Human resources at Toyota Kirloskar Motors and Mr. Shashidhar Sangurmath , Deputy general Manager at Toyota Kirloskar Motors addressing the gathering, at Toyota Conference hall, TKMPL, Bidadi Bengaluru



Faculties Group photo session along with Mr. Shankara G san, Vice President, Human resources at Toyota Kirloskar Motors and Mr. Shashidhar Sangurmath san, Deputy general Manager at Toyota Kirloskar Motors (fifth and fourth from Right side, row1), at Toyota Conference hall, TKMPL, Bidadi Bengaluru

INTERNATIONAL SAE AERO COMPETITION , USA

JIT has been participating in the SAE AERO global competition since 2019. A batch of students participated in the competition in the year 2023 at Lakeland City, Florida, USA, and stood 9th globally in the Micro class category. There were 44 team participators in the competition across the globe. The result sheet is attached below.

Micro Class - Overall Standings

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Rankings	University (Team)	Country	Design Score	Presentation Score	Mission Performance Score	Technical Inspection Deductions	Overall Score
1	312 - George Institute of Technology	United States	47.1732	40.7700	76.5045	-	164.5277
2	321 - Wrocław University of Technology	Poland	43.2864	42.4600	77.8376	-	163.5840
3	320 - Warsaw University of Technology	Poland	45.3633	43.6967	74.4800	-	163.5296
4	314 - Manipal Institute of Tech	India	46.8833	40.4633	57.1624	-	144.5090
5	317 - Politechnika Poznańska	Poland	36.0484	35.8433	41.2408	-5.0	98.1326
6	319 - Nanjing Univ of Aeronautics & Astronaut	China	40.4921	37.6500	0.0000	-	78.1421
7	324 - Vidyavardhaka College of Engineering	India	32.8666	33.7900	5.4725	-	72.2291
8	326 - Federal University of Juiz de Fora	Brazil	36.1495	29.7250	7.7174	-5.0	71.5919
9	328 - Jyothy Institute of Technology	India	21.2042	36.7867	0.0000	-5.0	52.9909
10	322 *WPIPI Institute of Technology	India	13.0194	0.0000	0.0000	-	13.0194
N/A	327 - Florida International	United States	0.0000	0.0000	0.0000	-	0.0000



UNIVERSITY RANKS

JIT secured two ranks, 2nd and 3rd Rank in the PG programme of Product Design and manufacturing in the year 2022. Mr. Raghavan and Mr, Rohit secured 2nd and 3rd Rank respectively. Both were honoured in the farewell function organised for the outgoing students of our institution. In the previous year Mr. Prasad secured first rank in the same PG programme.

