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Messages

Message from the Principal

Dr. B.G. Naresh Kumar

Principal

Maharaja Institute of Technology Mysore



Dear readers,

I am happy to know that the department of Mechanical Engineering is releasing their annual newsletter. The newsletter propagates the information regarding the activities and developments taking place in the department. I wish all the success for the department in bringing awareness amongst the society about the progress and functionality of the department.

From Head of the Department's Desk

Dr. Mohamed Khaisar

Professor and HoD,

Mechanical Engineering

Maharaja Institute of Technology Mysore



Dear readers,

I am very happy present to you the newsletter of our department that gives an insight about the functioning of the department in curricular, co-curricular and extra-curricular segments of educational platform during the year. It is very satisfying to find the students and rest of the society acknowledging our efforts in imparting quality education, evolving competitive personalities contributing towards the country's development. We are committed to enhance quality in education to our students and serve the society on global technological front.

HIGHLIGHTS

*Inauguration
of "Mechismos Club"*



*Inauguration of
"Center Of Excellence
In Mechatronics
Training For
Engineering Research"*

Department Activities

Inaugural day function of Mechismos Club



Annual inaugural day function of Mechismos Club was organised on 7th October 2017, Dignitaries on the dais were top most brasses from industries like Dr. N. MuthuKumar, President & Whole Time Director automotive Axles Ltd. Mysuru, Mr. P Kirshna Kumar, Vice President Brakes India Pvt. Ltd, Nanjungud. Dr. B G Naresh Kumar Principal, MITM, Dr. T Vasudev, Secretary, MET Mysore, Dr. Y T Krishnegowda, Trustee, MET Mysore, Dr. Mohamed Khaisar, HoD, Mechanical Engineering Department, MITM, Prof. Ravikumar K S, Secretary, Mechismos Club, Prof. Y D Chethan, Treasurer, Mechismos Club, MITM

*Inauguration of Centre of Excellence in Mechatronics
Training and Engineering Research (CEMTER)*



The Centre of Excellence in Mechatronics Training and Engineering Research (CEMTER) was inaugurated on 7th October 2017. The chief guest on the occasion were Dr. Muthu Kumar .N, President and Whole Time Director, Automotive Axles Limited, Mysore and Mr. Krishna Kumar, Vice President, Brakes India Limited, Nanjangud along with the trust members of Maharaja Education Trust. The centre is equipped with Mechatronics training kit of latest configuration. The functionality of CEMTER is so planned to train the students with the syllabus driven from the industrial requirement. The CEMTER is also intended to train the students from other academic institutions as well the industrial trainees on automation and mechatronics. Research and development activities are expected to flourish with more number of research scholars driving to utilize the facility.

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HIGHLIGHTS

Inauguration of
"ISHRAE"
students' Chapter



Extra-Curricular
Activities

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Department Activities

Inauguration of ISHRAE Students' Chapter:



The ISHRAE (Indian Society of Heating, Refrigerating and Air-conditioning Engineers) was inaugurated at Department of Mechanical Engineering, Maharaja Institute of Technology Mysore on 27th October 2017. The dignitaries present on the occasion included Dr. B. G. Naresh Kumar, Principal-MIT Mysore, Dr. Y.S. Varadarajan-Professor, I & P-NIE Mysore, Dr. Mohamed Khaisar, Professor and HoD, Mechanical Engg-MIT Mysore, Mr.Bharadwaj, President-ISHRAE Mysore Chapter, Mr.Prabhakar, Secretary-ISHRAE Mysore Chapter, Prof. Chethana .G.D, Faculty Advisor – ISHRAE Student Chapter-MIT Mysore.

Dr. Varadarajan addressed the gathering by highlighting scope with ISHRAE and how students can extract the usefulness of their membership with ISHRAE.

Mr.Bharadwaj performed the oath taking ceremony to the newly joined ISHRAE members. Lastly the Charter certificate of ISHRAE was handed over to the Principal, MIT Mysore.

Extra-Curricular Activities:



3D-WAR

This event was organized on 07/10/2017 where the students are tested with the engineering graphics and are made to read technical 2D-Drawing of a mechanical component and asked to convert it into 3D model using any CAD Modeling Tools like Solid Edge, Solid Works, and CATIA etc.

HIGHLIGHTS

Extra-Curricular Activities

- 3D-Cad War
- Build it up & Make it Move
- All-Terrain vehicle



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Department Activities

Build it up & Make it Move:



This event was conducted on 7th October 2017 where students are required to build a working model/mechanism of their choice and asked to demonstrate their innovative technical knowledge with the built working model.

All-Terrain Vehicle:



This event was conducted on 7th October 2017 for Mechanical Engineering students where students are required to build a vehicle/ assemble on spot and make the vehicle move in a definite path marked in ground.

Here the students are tested with their programming and Mechatronics skills, which they used to program a robotic vehicle, remote controlled car etc.



HIGHLIGHTS

Technical Talks



Industrial Visits



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Department Activities

Technical Talks:

Department of mechanical engineering organizes various technical talks by inviting expertise from industries and academia's from other colleges. Expert lectures organized during the 2017-18 are listed below.

- ❖ A technical talk was delivered by Mr. Swanand Patuwardhan on “Industry-Institute gap” on 11th April 2017; the talk was addressed to 8th semester students.
- ❖ A technical talk was delivered by Mr. Vijay Kumar, Deputy Director, IMTA, Bangalore on “Engineering Orientation-A Practical Approach”, on 8th May 2017 and the talk was addressed to 3rd year & 4th Year students.
- ❖ An expert lecture was delivered by Sri B.N. Jagadeesh Prasad (Advisor – QCFI, Mysore Sub Chapter) on Kaizen Techniques, wherein the students are trained to build their Kaizen.

Industrial Visits:

Department of Mechanical Engineering organizes various industrial visits to companies in and around Mysore, Mandya and Nanjungud to students to give an exposure to practices used in industry and to enhance the practical knowledge.

- Reid and Taylor
- Zenith Textiles, Nanjungud.
- KRS Power Plant, Mandya
- AT &S Pvt Ltd, Nanjungud
- Mysore Sandals Pvt Ltd, Mysore
- KPTCL Sub Station, Vajamangala
- Deepanjana Cables, Mysore
- ISHRAE Showcase, VVCE, Mysuru



HIGHLIGHTS

Training Programs



Department Activities

Training Programs:

Department of Mechanical Engineering organizes various training programs and nurtures the students to update themselves for today's industrial requirement on all fields of engineering like Design, Hydraulics and Pneumatics, Robotics, Mechatronics, Programming etc. All the training programs are certification programs where on successful completion of the training the students receives certificate from the training agency. Till date the department has organized around 60 plus training programs to the students.

Department has setup an Center of Excellence in Mechatronics Training and Research(CEMTER) center to train the students, wherein 600 programs can be executed.

Department has signed MOU with reputed training centers like:

1. Sri Manjunatha Design Solutions, Bangalore, for Catia training program for 2nd year students
2. VTU regional Center, for Hydraulics and Pneumatics training for 3rd year students.
3. Government ITI college Mysore for training students on CNC programming for Turning and milling operations.
4. EicherCenter of Excellence, NIE Mysuru, for Basic Automobile Training for 3rd year students.
5. Center of Excellence for Manufacturing, NIE Mysuru, for advanced manufacturing training program for 3rd year students.



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HIGHLIGHTS

Student Achievements



Placements NSS activities



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Department Achievements

Student Achievements

1. **Sanjana U Ajanna** from 5th semester won 1st prize in Inter college Quiz Competition and Technical presentation organized by ISHRAE Mysore Chapter at VVCE Mysore.
2. **Rabin Pradhan** from 5th semester won 3rd prize in Inter college Quiz Competition and Technical presentation organized by ISHRAE Mysore Chapter at VVCE Mysore
3. **Rakesh Sharma** from 5th semester won 3rd prize in Inter college Quiz Competition and Technical presentation organized by ISHRAE Mysore Chapter at VVCE Mysore

Staff Achievements

- **Prof. Kishan G S** was awarded the title of “**GURU BHUSHANA**” by Karnataka Rajya Shikshakara Prathiba Parishath, Bangalore.

Sports & Cultural

Department motivates and encourages its students to participate in extracurricular activities like sports and cultural. The students have represented in both at college level and at university level sports meets, annual fest organised during the academic year



NSS Activities

Students of Mechanical Engineering are actively involved in service activities organised by NSS Department, MITM.

Services like Blood Donation camp, SwacchBharath, Special Camp, University level camp, state youth fest, national integration camp and many more during the year 2017-18.



HIGHLIGHTS



Research Activities

Department of Mechanical Engineering is Recognised as Research Center, by Visvesvaraya Technological University from 2012. Under the banner of Maharaja Research Foundation is carrying out quality research activities in the institution.

The Department has two recognised Research Supervisors registered under VTU, Belagavi. Following are the list of candidates enrolled for PhD.

Sl. No.	Name of the Supervisor	Research Scholar	Area of Research
1	Dr. Y T Krishnegowda	Mr. JyothiPrakash	CFD Analysis of Heat Exchangers
2	Dr. Mohamed Khaisar	Mr. Godfrey Devaputra	Management
3	Dr. Mohamed Khaisar	Mr. Sreyas C	Material Science

Faculty of the department are actively involved in the research activity and department has more than 70% of the faculty registered for Ph.D. List of Faculty registered for Ph.D. are listed below.

Sl. No.	Name of the Faculty	Research Center	Area of Research
1	Mr. B Harish	NIE, Mysuru	Material Science
2	Mr. Vijayaraghu B	MIT Mysuru	Heat Exchangers
3	Mr. Y D Chethan	PESCE, Mandya	Image Processing
4	Mr. Ravikumar K S	PESCE, Mandya	Material Science
5	Mr. G C Ramesh	PESCE, Mandya	Tribology
6	Mr. Godfrey Devaputra	MIT Mysore	Management
7	Mr. Yogesh Kumar K J	SJCE, Mysuru	Gear Design,
8	Mr. Santhosh K G	NIE, Mysuru	Material Science
9	Mr. Raghu S	NIE, Mysuru	Material Science
10	Mr. Chethana G D	VVCE, Mysuru	Heat Exchangers
11	Mr. Kishan G S	KVGCE, Sulia	Material Science
12	Mr. Anilkumar M M	SIT, Tumkur	Material Science
13	Mr. Mallikarjuna	PESCE, Mandya	CFD on Flow
14	Mr. Rajesh A S	JSS, University	Material Science
15	Mr. Mohamed Maaz Rehan	Ghousia College	Material Science

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HIGHLIGHTS

Journal Publications



Innovative Projects



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Workshops & Publications

Journal Publications

1. Yogesh Kumar K J, Chandan Raju and Dr. V Seshadri. "CFD Analysis of Flow Metering of Non-Newtonian Fluids by Rotameter." International Journal of Scientific Research in Science, Engineering and Technology, Volume 3 | Issue 5 | Print ISSN: 2395-1990 | July-August-2017 [(3)5: 47-64]
2. Yogesh Kumar K J, Yashvanth V and Dr. V Seshadri. "CFD Analysis of Flow through Single and Multistage Eccentric Orifice Plate Assemblies". International Journal of Scientific Research in Science, Engineering and Technology, Volume 3 | Issue 3 | Print ISSN: 2395-1990 | June 2017-2017 [(3)3: 215-232]
3. Anil Kumar M M, Dr. R Suresh, Vinay B U "Development of effect Austempered Ductile Iron and Property Evaluation with addition of Aluminium" Vol. 3. Special Issue 8, August-2017, Page 107-112
4. Krishna Prasad S "Design and Fabrication of Sugarcane Bud Cutting Machine" International Journal of Engineering Science and Computing Vol. 7, Issue 7, July 2017
5. Y D Chethan "Estimation of Machine Vision and Acoustic Emission Features in Turning Nimonic75 by ANN" International Journal of Engineering Research in Mechanical and Civil Engineering Vol. 2, Issue 4, April 2017
6. Y D Chethan "Performance Monitoring in Turing Nimonic75 Using Coated Carbide Inserts by Machine Vision System" International Journal of Engineering Research in Mechanical and Civil Engineering March 2017

Innovative Projects

Department of Mechanical Engineering, MITM motivates students in executing creative and innovative projects which are beneficial to the society. Few innovative projects executed during year 2017 are listed below.

1. "Design, Fabrication & Testing Of Multi-Functional Nano Tractor", the projected was executed by 8th semester students by building a tractor for small scale farmers with low cost.
2. "Design And Fabrication Of Double Acting Hacksaw Machine Using Scotch And Yoke Mechanism" under the guidance of Dr. Mohamed Khaisar, Professor & Head Dept. of Mechanical Engineering, MITM
3. "Design and Fabrication of Semi Automated Sugarcane Bud Cutting Machine" Through the development of sugarcane bud cutting machine, slicing the inter-node is made possible, so that nearly 1.8 tons of sugarcane stalk can be utilized which is considered as wastage in traditional method.
4. "An Epitome of Curtail Chassis - Conceptual Frame Work", the concept reduces the parking space problems faced in present day.

HIGHLIGHTS



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Department Highlights

Internships

Department encourages its students to undergo internship training during the semester vacations for gaining the experience in industries. Following is the number of students undergone internships in various industries during the year 2017

Sl. No	Name of the Company	No. of Students
1	BEML, Mysuru	10
2	Railway Workshop, Mysuru Division	12
3	Automotive Axles Limited, Mysuru	8
4	Rane Madras Pvt Limited Mysuru	4
5	Hindustan Aeronautics Limited, Bangalore	3
6	J K Tyres, Mysuru	6

Scholarships

To develop, recognize, support, motivate and uplift the student community, Department of Mechanical Engineering, MITM proudly awards student scholarships to the deserving student. Department has its own scholarship committee to assess the applicants after the applications are received and the scholarships are issued in the annual inaugural function of “Mechismos Club”

The department Club issues 5 scholarships the list of scholarships are,

Sl. No.	Name of Scholarships	Number of Scholarships	Amount in Rupees
1	Mech-Maharaja Platinum Scholarship	01	10000
2	Mech-Maharaja Golden Scholarships	03	5000
3	Late. ShriYaliyurThammeGowda Scholarship	01	10000

HIGHLIGHTS



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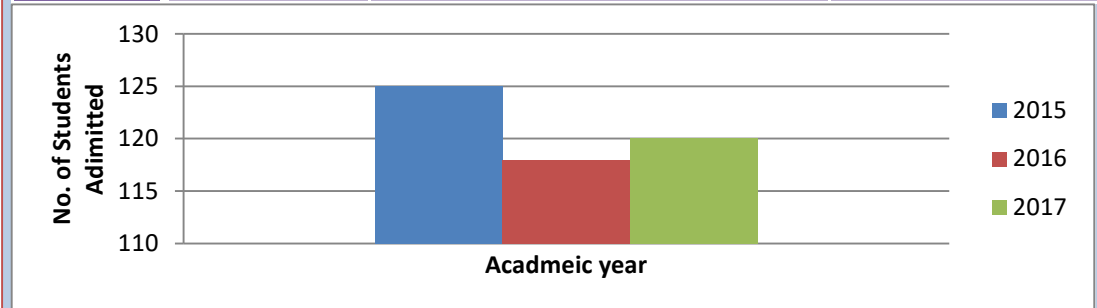
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Academic Details

Admission

Maharaja Institute of Technology Mysore with CET Code-158, is situated at a beautiful, enchanting and sprawling landscape in Belavadi Village, Srirangapatna Taluk, Mandya. The institute is founded by a group of eminent people recognised for their eminence in the field of science and engineering technology. Many of them have served at the highest levels of AICTE and University. The college is equipped with all modern learning aids to make teaching-learning process a pleasure. The highly qualified staffs are its asset. The college has very good track record in admission in comparison with other engineering Colleges in Mysore region. Department of Mechanical Engineering is approved with 120 intake from the year 2011. Details of admission for the past three years are given below.

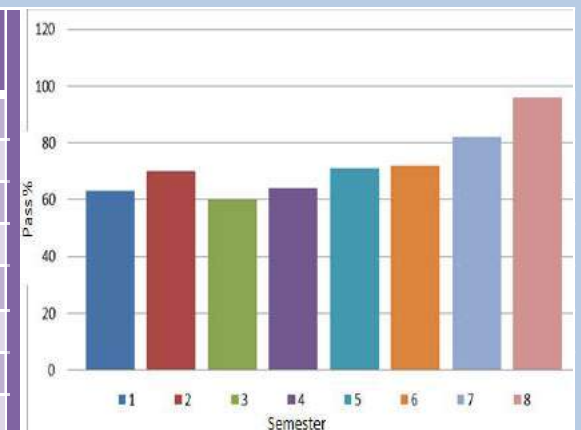
Sl. No	Academic Year	Sanctioned Intake (120)+ SNQ Quota (6)	No. of Students Admitted
1	2015	126	125
2	2016	126	118
3	2017	126	120



Results

Department of Mechanical Engineering has successfully completed 11 years and produced quality mechanical engineers with good results. The result analysis of the year 2017 is,

Sl. No	Semester	Pass %
1	1	63
2	2	70
3	3	60
4	4	64
5	5	71
6	6	72
7	7	82
8	8	96



HIGHLIGHTS

MET
REVOLUTION IN
EDUCATION



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Vision & Mission

Vision

“Excellence in technical education to produce eminent Mechanical Engineers competitive, contributing and sustainable in the global Socio-Technological front”

Mission

M1: To enrich teaching learning experience through distinguished practices and ever improving infrastructure.

M2: To enhance student performance through constant guidance, motivation and mentoring.

M3 : To develop distinct skills, leadership qualities and creative thinking among the learners through sensible endeavors.

Program Educational Objectives:

Mechanical Engineering graduates will be able to,

PEO1: Pursue their professional career in core and allied domains.

PEO2: Continuously upgrade their professional skills through higher education and/or other learning programs.

PEO3: Exhibit strong professional and social ethics, and participation in interdisciplinary ventures.

Program Specific Outcomes:

After successful completion of program, the graduates will be able

PSO1: Apply the acquired knowledge of mechanical engineering to develop techniques and systems by drawing inferences through investigations using modern tools

PSO2: Analyze and solve practical problems in mechanical engineering with profound concern about the society and environment.