

MECH BULLETIN 2018



MIET ENGINEERING COLLEGE

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Department of Mechanical Engineering

About us

The Mechanical Engineering department was started in the year 1998 and the first batch graduated in 2002. The department has dedicated, qualified and experienced faculty members with specialization in various fields of knowledge. Workshops and symposiums are organized every year by the department to update the students with the latest/upcoming technological developments.



Department Vision and Mission

Vision

- Establish a globally recognized school of Excellence in the field of mechanical engineering.

Mission

- Impart quality education in Mechanical Engineering through effective teaching – learning techniques.
- Provide necessary infrastructure and facilities for the student's personal and professional growth.
- Expose to specialized mechanical engineering domains to harness evolving technologies.
- Create awareness in ethical practices followed internationally.



Er. A. Mohamed Yunus
Chairman
M.I.E.T Institutions

CHAIRMAN MESSAGE:

M.I.E.T Educational Institutions strives to excel by providing unparalleled excellence in academic prospective in a congenial atmosphere. The budding pillars here are given scrupulous value based education to mould themselves as diligent citizens. To build a harmonious society, M.I.E.T fosters comprehensive and collective practices uncompromising on the quality of education that is installed positively. The focus is also to nature intellectual and cognitive developments in the changing scenario as a catalyst to grow with the transformation in the country.

A holistic essence of positive sign has spread throughout for Engineering and management education. The learning practices with innovation and interest will definitely upscale the standards to serve the future generation. This has been proved here through the immense programs conducted and attended by our staff and students. The continual involvement disseminated in our campus to keep abreast of all the advancement emerging globally is appreciable. I am here to encourage you to explore and seek great opportunities available to reach the pinnacle of eminence in all endeavors.



Dr. X. Susan Christina
Principal
M.I.E.T Engineering College

PRINCIPAL MESSAGE:

In a fast developing nation like ours, the technical education proves to be the backbone and stepping stone to move into the domicile of a developed nation. It is well acknowledged that Engineers are vital to augment the economy and society. Manifestly their knowledge and skills are in high demand across a range of sectors, from manufacturing to financial services.

So it becomes the imperative responsibility of the technical institutions to harvest talented engineering professionals to meet the current and future demand across the globe. Our M.I.E.T. Engineering College has been enthusiastically contributing in the mission of transforming the rural India into developed nation by administering the institution with a high degree of innovation, creativity, human intelligence and passion towards excellence.

**In-plant Training / Paper Presentations/
Workshop-Students**

- T. Praisson Abraham and S. Raja Mohamed of final year students has participated in the paper presentation event on the topic “Design and fabrication of composite leaf spring” at KSR College of Engineering, Triuchengode on 20.07.2018.
- M.Raamkumar, D.Suresh Krishna, A.Sheik Azarudeen and Z.Syed Nizar of second year students attended the workshop on “Engine Assembly and Disassembly” on 16-09-2018 at Diagnol CADD, Chennai.
- P. Santhosh Kumar of final year student attended the workshop on “Automotive” during Mettle 2019 at National Institute of Technology (NIT), Trichy.
- M.Raamkumar and D.Suresh Krishna of second year students has participated in the “Quiz” competition organized by Rajalakshmi Engineering college, Chennai in ‘Krida Yanthrik 18’ symposium on 17-09-2018.
- Ramkumar, Arunkumar, Dinesh Kumar, Gopinath, Kapil of final year students had undergone a one week “In-plant training” at UNIQ Technologies, Chennai on 19.6.2018 to 20.6.2018.
- P.Gobikrishna, R.Manuram, P.Rakesh Rengaiah, N.Mohamed zainal zameer, E.Anandha sudan, J. John venis and J.Binu Denis of final year students has undergone “Inplant training” on Bharat Heavy Electricals Limited (BHEL), Karnataka during the period 29-08-2018 to 31-08-2018.

- Dr. T. Karthikeyan, Director (Planning and Development) participated in the International conference on Interdisciplinary Research Technology and Innovation (ICIRTI-2018), during 7th-9th April 2018. He chaired the Technical session and delivered an speech held at Pattaya, Thailand.

Guest lecture attended by Faculty

- All the faculty members attended one day faculty Development program (FDP) on the topic “Personality Grooming” organized by M.I.E.T. Engineering college on 06-06-2018. Rtn. M.Shanmugasundaram, Trainer-soft skills, Phoenix Training Academy, Erode was the Resource person.
- Mrs.Roseline, Associate professor and Mr.Vivekanadhan, Assistant professor has actively participated in the 7 days workshop on the title “Recent trends in Materials Processing” organized by Coimbatore Institute of Technology (CIT), Coimbatore on 12.11.18 to 18.11.18.
- Mr.Dhamodharan and Mr.S.Thulasiram, Assistant professor has participated in the 2 Days Faculty development program (FDP) on “Auto CAD’18” held at K. Ramakrishnan College of Engineering, Trichy on September 2018.

- Mrs.S.Roseline, Associate professor, Mr.M.Vivekanadhan, Mr.I.Devaraj, Mr.M.Gowthaman, Mr.K.Rajasekar and Mr.K.Sundaravadivel, Assistant professor has actively participated in the 7 days workshop on the title “Recent trends in Materials Processing” organized by Coimbatore Institute of Technology (CIT), Coimbatore on 12.11.18 to 18.11.18.
- Mr.K.Dhamodharan, Mr.M.Kirubakaran, Mr.D.Manikandan, Mr.S.Kumaradevan, Mr.K.Panneerselvam and Mr.S.Thulasiram, Assistant professor has participated in the 2 Days Faculty development program (FDP) on “Auto CAD’18” held at K. Ramakrishnan College of Engineering, Trichy on 11th to 12th September 2018.
- Mr.R.Sankaradoss, Mr.P.Pradeep, Mr.D.Senthilkumar, Mr.A.Pandianathan and Mr.A.Jeyanthan Assistant professor has participated in the Two Days National workshop on “Industry 4.0 2019” at Sri Ramakrishna Engineering College, Coimbatore, Tamil Nadu, on 15-16th February 2019.

Symposium / Seminar organized

- A Guest lecture was conducted on the topic “Recent trends in manufacturing” for final year students 07.09.18. Dr.P.Sathya, Head & Professor-Production Department, National Institute of Technology (NIT), Trichy was the Resource person.



Dr. X. Susan Christina, Principal, MIET Engineering College honouring the chief guest

- Mr.L.S.Narendhira, Assistant professor and Dr. S.Sakthivel, Project Manager has conducted guest lecture for the other college Polytechnic students on “Non Destructive Evaluation” at M.I.E.T Engineering college, Trichy on 16.3.2018.



NDT Guest lecture

- A Guest lecture for third year students was conducted on the topic “Intellectual properties rights (IPR)” by Dr. P. Jeyakumar, Research Faculty, Kalasingam University, Kirshnankoil, Viruthunagar on 01.08.2018.



Chief Guest delivering Guest lecture

Paper Published by Faculty

- Mr.M.Kirubakaran, Assistant Professor has published a Journal paper on “Eggshell as heterogeneous catalyst for synthesis of biodiesel from high free fatty acid chicken fat and its working characteristics on a C.I.Engine” in the Journal of environmental chemical Engineering a SCOPUS journal with 0.924 impact factor, volume 6, 4490–450, 2018.
- M.Kirubakaran, E.Manikandan, P.Pradeep Assistant Professor has published a Journal paper on “Production of biodiesel from waste cooking oil as a suitable alternative for diesel in

Applied science and computations,
doi:16.10089.JASC.2018.V5I12.453459.1500306.

- Mr.M.Vivekanathan, Assistant Professor has published a Journal paper on “Bike with Modified Steering System to Assist People with Forearm Disability” SAE International, Doi:10.4271/2018-28-0062.
- Mr.M.Vivekanathan, Assistant Professor has published a Journal paper on “A preliminary study on the physical and biocompatibility characteristics of Zirconia-Silicon Nitride bio-ceramics” on IOP Conference Series: Materials Science and Engineering, Doi:10.1088/1757-899X/402/1/012031.
- Mr.D.Manikandan, Assistant Professor has published a Journal paper on “Fact-Finding on Physical and Mechanical Properties of 3Y-TZP Toughened Alumina (ZTA) Composites Incorporation of Functionalized Multi-walled Carbon Nanotubes” Advances in Materials and Metallurgy, Doi.org/10.1007/978-981-13-1780-4-25.
- Mr.K.Dhamodaran, Assistant Professor has published a Journal paper on “Multi-objective optimization of end milling process parameter for stir casted alumina reinforced aluminium metal matrix composite using RSM” on IOP Conference Series: Materials Science and Engineering, Doi:10.1088/1757-899X/402/1/012193.

- Mr.K.Dhamodaran, Assistant Professor has published a Journal paper on “Limbs related handicap drivable non-commercial electric shuttle vehicle” on SAE Technical Papers, Doi: 10.4271/2018-28-0055.
- Mr.R.Sankaradoss, Mr.P.Pradeep, Mr.A.Pandianathan, Assistant Professor has published a Journal paper on “Implementation of six sigma DMAIC methodology to increase productivity of sand casting by reducing its defects” on International Journal of Research, Vol. 7, Issue VI, Pg.No:574-586 ISSN NO:2236-6124.
- Mr.M. Dhandayuthabani, Associate professor and Mr.S.Kumaradevan, Assistant professor has published a Journal paper on “Thermal conductivity enhancement of paraffin wax blending with copper nano particle” on Journal of Applied Science and Computations, ISSN NO:1076-5131.
- Mr.M.Visvam and Mr.T.Prabakaran, Assistant professor has published a Journal paper on “Evaluation of corrosion properties of Supermartenstic stainless steel using GMAW” on Journal of applied science and computations, DoI:1610089/JASC.

- Mr.D. Manikandan, Dr.D. Saravanan, Mr.T. Ramkumar has published a Journal paper on “Experimental Analysis of Electro Chemical Micro Machining on Nickel” on Journal of applied science and computations, vol. 7, issue:10, 2018, doi:16.10089.ijr.v7110.285311.003437.
- Dr.C.Ahilan, Dr.D.Saravanan and Dr.M.Y.Abdul Jaleel, Professors has published a Journal paper on “Multi-response optimization of electro chemical micro machining (ECMM) of nickel using fuzzy based grey relational analysis” on International Journal of Management, IT and Engineering, Vol. 8, Issue:12(1),Page no:218-233.

Faculties/Students Achievements

- N.Mohamed Asif and K. Maheswaran of final year got 3rd place in paper presentation on the topic of “Perpetual cycle” at Moogambikai College of Engineering, Pudukkottai on 28.09.2018.
- I.Selva Bharathi, T.Susendra vasan, S. Salik Mohamed and S.Vigneshraja of final year students got fund for their project “Tree shifting and replantation mechanism” from Tamilnadu state council for science and technology (TNSCST), DOTE campus for the academic year 2018-19 under the guidance of Mr.L.S.Narendhira. Assistant professor.

- A. Sheik Azarudeen of second year has won second prize with cash amount of Rs.250 in the “Quiz” competition organized by Rajalakshmi Engineering college, Chennai in ‘Krida Yanthrik 18’ symposium on 17-09-2018.
- Mr. P. Santhosh kumar of final year student has attended Online NPTEL 8 week course from Aug-Sep 2018 on the topic “Robotics” and successfully completed the course organized by Indian Institute of Technology (IIT) kharagpur.
- Dr. T. Karthikeyan, Director (Planning and Development) was conferred a special recognition under “Outstanding Faculty” for the year 2018. This award recognises the futuristic and outstanding best practices in the field of education held at international conference on inter-disciplinary Research technology and innovation, **Pattaya, Thailand**. He also acted as one of the key organizing members of that conference.
- Dr. C. Ahilan, Professor has attended Online NPTEL 12 week course from July-October 2018 on the topic “Engineering Metrology” secured **top 5% rank in All over in India** and got ELITE score organized by Indian Institute of Technology (IIT) kharagpur.
- Mr. V. Pandiaraj, Assistant professor has attended Online NPTEL 4 week course from July-August 2018 on the topic “Laws of Thermodynamics” and successfully completed the course organized by Indian Institute of Technology (IIT) kharagpur.
- Mr. M. Visvam, Assistant professor has attended Online NPTEL 4 week course from July-August 2018 on the topic “Manufacturing of composites” and successfully completed the course organized by Indian Institute of Technology (IIT) kharagpur.
- Mr. L. S. Narendhira, Assistant professor has attended Online NPTEL 8 week course from July-August 2018 on the topic “Robotics” and successfully completed the course organized by Indian Institute of Technology (IIT) kharagpur.
- Mr. K. Panneerselvam, Assistant professor has attended Online NPTEL 4 week course from August-September 2018 on the topic “Product Design and Innovation” and successfully completed the course organized by Indian Institute of Technology (IIT) kharagpur.
- Mr. M. Kirubakaran, Assistant professor has submitted project proposal on the topic “Experimental setup on production of biodiesel from waste cooking oil and its working characteristics on C.I. Engine” and availed seed money Rs.50,000 from the management on the academic year 2018-19.

Chief Editor

Dr. D. Saravanan, HOD

Co- Editor

Mr. M. Kirubakaran, AP

Students Editors

C. Ambicapathy

J. John venis