

MECHBULLETIN 2015



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 recognised 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 specialised mechanical engineering domains to harness evolving technologies.

Create awareness in ethical practices followed internationally.



Er. A. Mohamed Yunus
Chairman
MIET INSTITUTIONS

CHAIRMAN MESSAGE:

It had always been my dream to build an institution for quality, innovation and excellence that can yield success. M.I.E.T institution was established with a primary motive of providing quality education to the budding youth, under privileged as well as the minority community which in turn would translate into service to the humanity in general and to the society in particular.

M.I.E.T edify the pupil to dream and realize the professional growth in a congenial environment with versatile faculty and facilities while enlightening them with values and characters to attain social, economical and technological growth at global level. Students must strive and create a platform to get a career not just for survival but also to excel in the field. Today is the era of privatization and globalization and we try to groom, nourish and nurture our students to fully equipped pillars of the Nation. My best wishes and blessing to all for the future endeavors.



Dr. S. Gunaraja
Principal
MIET ENGINEERING COLLEGE

PRINCIPAL MESSAGE:

It is a matter of abiding joy in witnessing a gradual success of our college by tapping the latent potential and talent dormant in the students. We know that quality education is a passport to its steep rise in life and creates a platform for practical avenues. They pursue their creative interests to attain financial gains and get golden opportunities to lead a life of dignity and prosperity. M.I.E.T Engineering College has efficient faculty members who are endeavored towards framing young and dynamic engineers who will crux of the technical workforce. Bestwishes.

In-plant Training / Paper Presentations/ Workshop-Students

- Mr. N.Vijay, Mr.S.Yogeshwaran, Mr.S.Vijayaragavan, Mr.S.Sivachandran, Mr.P.Suresh and Mr.S.Veeramanibalan of Third year students has gone for Inplant training at VOC port, Thoothukudi on 13th July to 17th July 2015.
- Mr.D.Vasanthakumar, Mr.M. Vimal, Mr.S.Vijayaragavan and Mr.S.Yogeswaran of final year has won **2nd prize** in the project presentation event at kongu Engineering college, Erode in the title of "AUTOMATIC STAMP PUNCHING MACHINE" on 12-9-15.
- Mr.D. Vasanthakumar, Mr. M. Vimal, Mr. S. Vijayaragavan and Mr.S.Yogeswaran of final year has presented their project in Manakulavinayagar Engineering college, puducherry in the title of "AUTOMATIC STAMP PUNCHING MACHINE" on 16-9-15.
- Mr. R.Ciju, Mr. A.Tamizhselvan, Mr. M.Vickyprasath, Mr. M.Vignesh, Mr. S.Sivachandran, Mr. P.Suresh and Mr. T.Vignesh of Third year has attended one day work shop organized by DV.Simpsons private limited at Anna university guindy, Chennai on 18-03-15.
- Mr.A.Mohammed rilwan and Mr.S. Rasheed ahamed of final year has presented project on the title "PIT CROSSING WHEEL CHAIR" at kongu Engineering college, Erode on 14-6-15.
- Mr. V.Raja durai and Mr.G.Sathyanathan of final year has attended "Employability skill enhancement program" at PSNA Engineering College, Dindugal on 16-5-15.
- Mr.S.Rasheed ahamed, Mr.A.Mohamed hussain and Mr.B.Masker of final year has won **3rd prize on** Technical event program on the title "Make it (or)break it" at Saranathan Engineering college, Trichy on 9-08-15.
- Mr. A. Balaji, Mr. P.Gowtham, Mr.K.Balamurali and Mr.R.Dinesh kumaran of final year has attended project expo on 15th Sep. 2015 at Sri manakula vinayagar engineering college, Pondicherry.
- Mr.R.Dinesh kumaran of final year has won 2nd prize and Mr. A.Balaji of final year has won 3rd prize in the quiz competition held at Anna University, Pattukottai campus on 10th Sep 2015.

- Mr.P.Gowtham and Mr.R.Dinesh kumaran of final year has won **2nd prize** in the paper presentation event entitled “Dynamic wing turbine for river flowing in terrain regions” held at Anna university, pattukottai campus on 10th sep 2015.
- Mr. R. Gopalakannan, Mr.N.Hariram, Mr.K.T.Arun , Mr. I.Ahamed mubeen and Mr.R.Karunakaran of final year has attended workshop on “Status challenges and futures of additive manufacturing in 3D printing” on 23rd Sep. 2015 at Dhanalakshmi srinivasan, perambalur.
- Mr.A.Gopinath, Mr.S.Gunavasan, Mr.M.Balachandar and Mr.S.Beer mohammed of second year has got **2nd prize** in the event Technical Quiz on “Pumps and Welding” held at M.A.M. School of engineering on 30th Sep. 2015.
- Mr. S.Imran khan, Mr.S.Mohammed mufeeth, Mr.S.Manikandan and Mr.A.Melwin manoj of second year has attended one day workshop on “Advancement in turbo and super charging engines” held at Coimbatore institute of technology, Coimbatore on 26th Aug 2015.
- Mr. S. Zubair ahamed , Mr. A. Mohamed rilwan, Mr. S. Rasheed ahamed, Mr.M.Nataraj and Mr. S, Mohamed suhail has published journal of Indian patent office entitled “Linear hydro impulse to torque converter” on 16-10-2015.
- Mr. A. Mohamed rilwan Mr. S. Rasheed ahamed, Mr.M.Nataraj, Mr. S, Mohamed suhail of final year and Mr.R.Arunprasath of third year has presented their project on the title “Linear hydro impulse to torque converter device” and selected to the next level of the competition on ELECTRAMA-2016 organized by Engineer India firm, Bengaluru on 13th – 17th Feb. 2015.
- Mr. Baba Mahaboob R.K, Mr. Hariraman. N, Mr. Arun. K.T, Mr. Dhinesh Kumar. M, Mr.N.Dhanasekaran, Mr.S.Faizal rahuman and Mr.R.Karunakaran of final year has attended one day work shop on “I.C. Engines” MASS 2K15 organized by J.J.College of engineering and technology, Trichy, on 29th Sep. 2015.
- Ms. A. Evangeline student of first year M.E. Manufacturing Engineering has presented a paper entitled “A study on lean six sigma implementation with TRIZ evaluation to reduce defects in automobile industry” on SESEM 2015 at Anna university BIT campus, trichy on 4th & 5th june 2015.

Guest Lecture attended by Students:

- Students of final year mechanical engineering has attended Guest lecture “Need of the Hour - Quality” on 08.07.2015 by Mr. S. Manokaran, Senior Engineer, HRDC, BHEL, Trichy organized by Mechanical Engineering department.



Mr. S. Manokaran, Senior Engineer, HRDC, BHEL, Trichy delivering his speech

- Students of final year mechanical engineering has attended Guest lecture “Total Quality Management” on 12.08.2015. by Mr. J.V. Krishnan, Addl. GM / BHEL - Retd, VP Simplex Engineering, Trichy organized by Mechanical Engineering department.



- Mr. J.V. Krishnan, Addl. GM / BHEL - Retd, VP Simplex Engineering, Trichy delivering his speech*

Students of third year mechanical engineering students has attended Guest lecture “Advances in Welding” on 18.08.2015. by Dr. K.R. Balasubramanian, Assistant Professor, Department of Mechanical Engineering, NIT, Trichy



Dr. K.R. Balasubramanian, Assistant Professor, Department of Mechanical Engineering, NIT, Trichy delivering his speech

- Students of third year mechanical engineering has attended Guest lecture “Advanced Manufacturing Process” on 26.08.2015. by Dr. V. Senthilkumar, Assistant Professor, Department of Production Engineering, NIT, Trichy organized by Mechanical Engineering department.



Dr. V. Senthilkumar, Assistant Professor, Department of Production Engineering, NIT, Trichy delivering his speech

Workshops organized by Mechanical Engineering Department:

- Two days hands on training course in Autodesk Inventor software was conducted on 30th Nov to 1st Dec 2015 at CAD laboratory at Mechanical Engineering department. Dr.A.Kumaravadivel/Dean was the Convener of the program and Mr.S.Renoldelsen, Assistant professor was the workshop Coordinator. Faculties of Mechanical Engineering department along with students Mr.R.Arunprasath, Mr.A.Arun vaidesh, Mr.K.Dinesh, Mr.G.Krishnaram kumar and Mr.V.S.Dinesh has participated in the workshop enthusiastically.



Dr.A.Kumaravadivel/Dean, Convener of the workshop along with the participants



Mr.S.Renoldelsen, Assistant professor, Coordinator of the workshop on his presentation

Workshops / Conferences attended by the Faculty members:

- Dr.S.Guharaja, Principal, and Dr.A.Kumaravadivel, Dean has presented a paper entitled “A study on lean six sigma implementation with TRIZ evaluation to reduce defects in automobile industry” on SESEM 2015 at Anna university BIT campus, trichy on 4th & 5th June 2015.
- Mr.K.Dhamodaran, Assistant professor, Department of Mechanical Engineering has attended one day workshop on “Introductory training on FEA with ANSYS” organized by TRP Engineering college, Trichy on 15th June 2015.
- Mr.K.Ramesh, Associate professor and Mr.K.Dhamodaran, Assistant professor, Department of Mechanical Engineering has presented a paper entitled “ Metal parts using parallel genetic algorithm” on ICAAET’15 organized by Syed ammal engineering college, ramanathapuram on May 14-16, 2015
- Mr. L.S. Narendhira, Assistant professor, Department of Mechanical Engineering has presented a paper entitled “Fuzzy Based Soft Computing Technique for Modeling of Nonlinear Process” on ICAAET’15 organized by Syed Ammal engineering college, ramanathapuram on May 14-16, 2015.

- Mr. S. Renoldelsen, Assistant professor has published conference proceedings on the title “Effect of Drilling Process Parameters on Bahunia Racemosa/Glass Fiber Composites using Taguchi Method” on ICAME-2015, UCEV, Villupuram, on 15–16th October 2015.
- Mr. S. Renoldelsen, Assistant professor has presented a paper entitled “Development of Electricity free Automatic water filling system for house hold application” on International Conference on Innovation Management IM-2015 organized by Department of Management Studies, Anna University- BIT Campus, Tiruchirappalli. 19th Oct. 2015.
- Mr. S. Renoldelsen, Assistant professor has applied in National level project presentation “ELECTRAMA-2016” organized by Engineer India firm, Bengaluru entitled “Linear hydro impulse to torque converter device” and selected to the next level of the competition to be held on 13th - 17th Feb. 2016.
- Mr. S. Renoldelsen, Assistant professor has published International journal paper entitled “Shrinkage characteristics studies on conventional sintered zirconia toughened alumina using computed tomography imaging technique” on the International Journal of Refractory Metals and Hard Materials 54, January (2016): 383-394 – Published online. (SCI-Impact Factor 1.989)

Publications and Achievements by faculty members:

- Dr.S.Guharaja, Principal, Mr.K.Ramesh, Associate professor and Mr. K. Dhamodaran, Assistant professor has published a journal paper entitled “ Metal parts using parallel genetic algorithm” on International Journal of Appiled Engineering Research as Special issue Volume No 10, Issue No 55 on 30th june 2015.
- Dr.A.Kumaravadivel, Dean has published a journal paper entitled “ Theory of inventive problem solving method in sand casting process optimization” on International journal of productivity and quality management, vol.16, No.4,Sep. 2015.
- Mr.L.S.Narendhira, Assistant professor, Department of Mechanical Engineering has published a paper entitled “Fuzzy Based Soft Computing Technique for Modeling of Nonlinear Process” on International Journal of Appiled Engineering Research as Special issue Volume No 10, Issue No 55 on 30th june 2015.
- Mr. S. Renoldelsen, Assistant professor has published a International journal paper entitled “Optimization to develop multiple response hardness and compressive strength of zirconia reinforced alumina by using RSM and GRA on the International Journal of Refractory Metals and Hard Materials 52 , September (2015) 159-164. (SCI-Impact Factor 1.989)

**Guest Lecture delivered by faculty members
 in other colleges:**

Mr. S. Renoldelsen, Assistant professor has delivered Guest Lecture for Third and Final Year Mechanical engineering students of Saranathan Engineering College, trichy on the topic “Project Methodology” on 30th july 2015.

Mr. S. Renoldelsen, Assistant professor has delivered Guest Lecture for Third year Mechanical engineering students of Saranathan Engineering College, trichy on the topic “Project Methodology” on 14-07-15.

Patent rights Approval:

Mr. S. Renoldelsen, Assistant professor has published a journal of Indian patent office entitled “Linear hydro impulse to torque converter” on 16-10-2015.

Mr. S. Renoldelsen, Assistant professor has applied to journal of Indian patent office entitled “Machine Vision System For Teaching Orthogonal And Isometric Projections In Technical Drawings” on 30-09-2015.

List Of Publication By Faculty Members

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- **A.Pandianathan, S. Kumaradevan** Assistant Professor Department of Mechanical Engineering Published a Journal Paper entitled ‘Simple Model Of Solar Cooling System’ in International Journal of Research, vol. 5, No. 1, Page No -126-130 published on June 2016.
- **S. Renoldelsen,** Assistant Professor Department of Mechanical Engineering Published a Journal Paper entitled Optimization to develop multiple response hardness and compressive strength of zirconia reinforced alumina by using RSM and GRA on the International Journal of Refractory Metals and Hard Materials
- **S.Guharaja, K.Ramesh K. Dhamodaran** Department of Mechanical Engineering Published a Journal Paper entitled Nesting Of Sheet Metal Parts Using Parallel Genetic Algorithm in International Journal of Applied Engineering Research,
- **A.Kumaravadivel** Theory of inventive problem solving method in sand casting process optimization in International journal of productivity and quality management

List of faculty members who produced 100% results in Apr/May'15 PG Examinations



Dr. A.Kumaravadivel
MF7010 – Lean Manufacturing
II Semester – M.E. Manufacturing Engineering



Mr. S.Dhakshinamoorthy
MF7009 – Non Destructive Evaluation
II Semester – M.E. Manufacturing Engineering



Mr. M.Visvam
MF7203 – Theory of Metal Forming
II Semester – M.E. Manufacturing Engineering



Mr. S.Renold Elsen
MF7204 – Mems and Nano Technology
II Semester – M.E. Manufacturing Engineering



Mr. A.Hussainlal
MF7202 – Manufacturing Metrology and Quality Engineering
II Semester – M.E. Manufacturing Engineering

Mechanical department Research centre

Accreditation:

Department of Mechanical Engineering have been recognized as *Research Centre* by Anna University, Chennai.

Chief Editor

Dr. A . Kumaravadivel , HOD/MECH

Co- Editor

Mr. M. Kirubakaran, AP/Mech

Students Editors

DINESH KUMARAN R (Final Year/Mech)

ESWARAN K (Final Year/Mech)