



## 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  
M.I.E.T Institutions

#### CHAIRMAN MESSAGE:

M.I.E.T Educational Institutions strives to excel by providing unparalleled excellence in academic prospectives 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. S. Guharaja  
Principal  
M.I.E.T 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****Workshop/ Paper Presentations/ In- plant Training / Industrial visit attended by students**

•Mr.Anandan and Mr.A.Hzizakrahman of third year students has attended workshop on “Mini bike design and fabrication technologies” on 05-08-2016 at Karpagam college of Engineering, Coimbatore.

•Mr.Anandan, Mr.M.Mohamedshafi and Mr.K.Balaguru of third year students has attended workshop on “Advancements in braking system and design and simulation of brakes” on 27-08-2016 at Government college of technology, Coimbatore.

•Mr.K.Jayasurya, Mr.S.Mohamed Riyaz and Mr.J. Mohamed Asharudeen of third year students has attended workshop on “Transmission systems” organized by the department of production engineering in hands with BMW on 10-09-2016 at Government college of technology, Coimbatore.

•Ms.G.Abiramakiruthiga of third year student has attended workshop on “Steering systems” organized by the department of production engineering in hands with FORD on 10-09-2016 at Government college of technology, Coimbatore.

• Mr.S.Abuthahirhussain of third year students has attended workshop on “Non destructive testing” organized by the department of Mechanical Engineering on 29-09-2016 at K.Ramakrishnan college of technology, Trichy.

- Mr.N.Jeeva, Mr.G.JeromeSiby and Mr.S.Mohamed Akbar Ali of third year students has attended one day workshop on “Entrepreneurship Orientation Programme” organized by M.I.E.T. Engineering college sponsored by National small industries corporation limited (NSIC) chenna (A Govt. of India Enterprise) held on 4th October 2016.
- Mr.S.Abuthahirhussain of third year students has attended workshop on “Piping” organized by the department of Mechanical Engineering on 30-09-2016 at K.Ramakrishnan college of technology, Trichy.
- Mr.M.Anandan of third year has participated in the paper presentation event entitled “Aluminium matrix composite using stir casting process” held at Mahendra Engineering college, Namakal on 12th August 2016.
- Mr.R.Dineshkumar, Mr.C.Edison and Mr.C.Eswarakumar of final year has won 2nd place in the paper presentation entitled “Hybrid ball mill” with cash award held at J.J.College of Engineering & Technology, Trichy.
- Mr.R.Dineshkumar and Mr.C.Eswarakumar of final year has 1st place in the event “Technical Quiz” with cash award held at J.J.College of Engineering & Technology, Trichy.

- Mr.M.Anandan and Mr.K.Balaguru of third year students has participated in the paper presentation entitled “Electro chemical machining” held at P.R. Engineering college, Tanjore on 2nd Sep 2016.
- Mr.S.Abuthagirhussain and Mr.S.Murugan of third year students has undergone “In plant training” at Diesel loco shed southern railway, Trichy on 24-06-2016 to 01-07-2016.
- Mr.C.Rajamurugavel of third year student has undergone “In plant training” at Neyveli lignite corporation (NLC), Neyveli on 15-07-2016 to 22-07-2016.
- Students of final year Mechanical-A section has gone for One day “Industrial visit” at Shanthigears,Coimbatore on 08-09-2016.
- Students of third year Mechanical-B section has gone for One day “Industrial visit” at “Industrial components company (Forging division)”, Coimbatore, on 28-09-2016 .
- Students of third year Mechanical-C section has gone for One day “Industrial visit” at Kothari Sugars & Chemical Private limited”Lalgudi, on 10-09-2016.
- Students of third year Mechanical-D section have gone for One day “Industrial visit” at Kothari Sugars & Chemical Private limited Lalgudi, on 15-09-2016.

- Mr.G.Krishnaramkumar of final year has won 2nd place in the event “Mechanical Engineer CAD Design” organized by SAE INDIA –KLU CLUB held at Kalasalingam university, Virudunagar on 29-07-2016 to 30-07-2016.

#### Faculty development Programme

- Mr.L.S.Narendhira, Mr.S. Dhakshinamoorthy, Mr.R.Sankaradoss, Mr.I.Devaraj, Mr.V.Pandiaraj, Mr.M.Gowthaman, Mr.E.Manikandan, Mr.M.Visvam, Mr.M.Dhandayuthabani, Mr.T.Prabakaran, Mr.T.Ramkumar, Mr.S.Kumaradevan, Mr.P.Pradeep, Mr.S.Senthilkumar, Mr.D.Senthilkumar, Mr.K.Rajasekar, Mr.K.Sundaravadivel, Mr.K.Panneerselvam, Mr.J.Suresh, Mr.A.Jeyanthan, Mr.J.Sivakumar, Mr.G.Satheesh and Mr.E.Vignesh, AP attended a Faculty Development Programme on “Engineering Graphics” on 25.06.2017 to 26.6.2017 at M.Kumarasamy College of Engineering, Karur.



- Mr.R.Dineshkumar, Mr.C.Edison and Mr.C.Eswarakumar of final year has participated in the event “CAD Modelling & Aero Modeling” held at J.J.College of Engineering & Technology, Trichy.
- Mr.N.Jeeva and Mr.G.Jeromesiby of third year students with the help of E Learning CLUB-Mechanical has been qualified on the examination of “Basics of Finite Element Analysis-I” conducted by NPTEL.
- Mr.C.Vinothkumar of final year has won 3rd place in the event of “Body building – 55kg weight category” organized by Pudukottai district Amateur body – building association at Pudukottai on 21-08-2016.
- Mr. Mohammed Razak (Team leader) along with his team mates Mr. Umasankar.S, Mr. SahayaRaj.S, Mr. Praveen Kumar.N and Mr. Sivanithi.M were remodeled and fabricated the 50 cc bike to participate in the racing event at Karpagam university, Coimbatore on 23.09.2016
- The bike model was designed and fabricated under the guidance of Dr. S.RenoldElsen, Asst.Prof. , Mr.S.Thulasiram, Asst.Prof. and Mr.K.Dhamodaran Asst.Prof. Department of Mechanical Engineering.



Remodeled bike

- Mr. Gopinath.R (Team leader) along with his team mates Mr. Sathish.K and Mr. Ashok.M were remodeled and fabricated the 70 cc bike to participate in the racing event at Karpagam university, Coimbatore on 23.09.2016 . The bike model were designed and fabricated under the guidance of Mr.Anthuwan Stephen Edberk.J Department of Mechanical Engineering.



Remodelled bike

## Guest Lecture attended by Students

- Students of final year mechanical engineering has attended Guest Lecture on “Finite Element Analysis” by Dr. T. Ramesh, Assistant professor, Mechanical Engineering department, National Institute Technology (NIT), Trichy on 09-08-2016.
- Students of third year mechanical engineering has attended Guest Lecture on “Design of Machine elements” by Prof. N.Ramasubbu, Mechanical Engineering department, Government college of Engineering, Srirangam on 30-09-2016.
- **WORKSHOP ON AUTODESK INVENTOR SOFTWARE**



Inauguration of Auto Desk Inventor workshop

- Two week workshop on “Auto Desk Inventor Version 2016 Software” was inaugurated in the presence of the Head of the department Prof. A. Anbarasu and Prof. S. Dhakshinamoorthy and Prof.L.S. Narendhira.

- The event was organized by Dr.S.RenoldElsenAsst.Prof (E-Learning Club coordinator) and Mr.K.Dhamodaran Asst.Prof (E-Learning Club Asst coordinator) under the E-Learning club activity for our department students.
- More than 35 students were participated in this event after evening 5.15-6.30 pm to learn about the basic 2D drafting, 3D modeling and Assembly of 3D modeling in detail.
- **AUTODESK FUSION 360 & DESIGN NOW COMPETITION**
- **AUTODESK-FUSION 360 Workshop Phase I**, was organized in our college in association with AUTODESK and more than 85 student’s participated in the event. Mrs.Madhumitha, Trainer, AUTODESK support trained the students effectively. The event conducted by Dr. S. RenoldElsen, Assistant Professor, (Co-ordinator E Learning CLUB) and K.Dhamodaran , Assistant Professor, (Asst . Co-ordinator E Learning CLUB ) held on 29th and 30th Aug 2016.



### Fusion 360° phase - I

- In success of AUTODESK-FUSION 360 Workshop Phase I, Phase II was held on 26th and 27th Sep 2016 which was trained by Mr.Karthikeyan, Trainer, AUTODESK support.
- The programme was a grand success in which 5 winners were selected and the prizes were distributed by Mrs SABERI DASGUPTA (Chief Guest), Arvato India at the valedictory function on 31st OCT 2016.



Students participated in DESIGN NOW COMPETITION



- Dr. A. Anbarasu delivering Welcome Address



- Dr.S. Renoldelsen delivering the vote of Thanks
- Mr.JeromeSiby. G (1st place), Mr.Jeeva N (2nd place) and Mr.MohamedMufeeth S (3rd place) of third year students and Mr.Krishna Ramkumar. G (4th place) of final year and Mr. Mohamed Rafick. S (5th place) of third year are the winners of “AUTODESK DESIGN NOW 3D STUDENT DESIGN CHALLENGE” competition organized by AUTODESK FUSION and 118 participants attended the programme at M.I.E.T. Engineering college, Trichy.

Ananda vikatan Correspondent-Student

- Mr. R. Manoj Kumar of final Year student has been selected for the Press Correspondent (Trainee) at Ananda Vikatan Publishers (P) Limited, Chennai.







### Publications and achievements by faculty members

- Dr. S.Renoldels Dr. S.Renoldelsen, Assistant professor, has published a journal paper entitled “Reinforced polymer composites from non-en, Assistant professor, has published a journal paper entitled “Empirical and Finite Element prediction and validation of weld bead profile generated during TIG welding process” in the journal of "Global Journal Of Pure And Applied Mathematics", Volume 12, 04-11-2016.
- Dr. S.Renoldelsen, Assistant professor, has uploaded a journal paper entitled “Characteristics study of mechanical milled alumina and zirconia powders by X Ray Diffraction” has been accepted for publication in the journal of Advanced science letters.
- Dr. S.Renoldelsen, Assistant professor, has uploaded a journal paper entitled “Taguchi Based Analysis On Hole Diameter Accuracy Of Drilled Glass/BahuniaRacemosa fiber polymer composites” has been accepted for publication and oral presentation for 7th international conference on advanced materials research (ICAMR 2017) In Hong Kong, on January 20-22, 2017.
- Pillai Subramani Jivanandan, M.Visvam, B.Ravisankar, S.Guharaja have published a journal paper entitled “Analysis of the Mechanical Properties and Structure of Aluminium (Al 5083) Processed by Equal Channel Angular Pressing” in International Journal of Engineering Science and Computing.
- M.Kirubakaran, E.Manikandan, T.Ramkumar have published a journal paper entitled “ Experimental investigation of production of biodiesel from pongamia pinnata oil” in Journal of applied science and computations.
- A.Pandianathan and S.kumaradevan have published a journal paper entitled “A model of solar cooling system” on Journal of applied science and computations.
- Dr. S.Renoldelsen, Assistant professor, has published a journal paper entitled “Reinforced polymer composites from non-recyclable waste plastics” for GRANT OF PATENT in IPO Journal.
- Dr. S.Renoldelsen, Assistant professor, has published a journal paper entitled “Machine vision system for teaching orthogonal and isometric projections in technical drawings” has been published for GRANT OF PATENT in IPO Journal.

### **PROJECT EXPO COMPETITION- FACULTY**

- Dr. S.Renoldelsen, Assistant professor, along with students Mr.S.Marx and Mr.S.Rasheedahamed participated in the Project Expo event on the title “Leaf Composite” was shortlisted for the Grand Finale of Marian award for technology excellence, MATE 2016 organized by Marian Engineering College-Kerala.
- Dr. S.Renoldelsen, Assistant professor, along with student Mr.S.Rasheed Ahamed participated in the Project Expo event on the title “IMPULSE TURBINE” was shortlisted for the Grand Finale of Marian award for technology excellence, MATE 2016 organized by Marian Engineering College-Kerala.

### **PROPOSALS FOR FUNDED PROJECTS BY FACULTY MEMBERS**

- Dr. S. Renoldelsen, Assistant professor, has guided the project entitled “Plastic composite for furniture using epoxy resin” and “Plastic composite for roof using polyester resin” for final year students have been submitted to 7th National awards for Technology Innovation under “Polymer data services (PDS) – CIPET.

- Dr. S. Renoldelsen, Assistant professor, has guided the project entitled “waterless odourless toilet”, Dry leaf composite using natural resin” and “Driver warning system” for final year students have been submitted for FAER SCHOLAR PROGRAMME 2016-2017 under Foundation for Advancement Of Education And Research –Bangalore.
- Dr. S. Renoldelsen, Assistant professor, has guided the project entitled “Waterless odourless toilet”, “Equipment for easy load transportation in apartments”, Plastic composite using epoxy resin” and Natural composite using dry leaves and natural resin” for final year students have been submitted to Student Project Schemes under Tamil Nadu State Council For Science And Technology-Chennai.
- Dr. S. Renoldelsen, Assistant professor, Mechanical, Mr. Jasim, Assistant professor, MBA and Mr.T. Arun Kumar, Assistant professor, T&P submitted proposal for financial fund to set up of “ATAL INCUBATION CENTRES (AIC)” under “NITI AAYOG” is under progress.

- Dr. S. Renoldelsen, Assistant professor, Mechanical, and Mr.T. Arun Kumar, Assistant professor, T&P submitted proposal for financial fund to develop “Entrepreneurship Development cell” under “UDAYAMITRA” is under progress.
- Dr. S. Renoldelsen, Assistant professor, Mechanical, submitted proposal for “INSPIRE FACULTY AWARDS” under Department of Science & Technology (DST)-DELHI.

#### **Recognition of Anna University Research Supervisor**

- Dr. S.Renoldelsen, Assistant professor, Department of Mechanical Engineering has been recognized as Anna University Research Supervisor by Center for research, Anna University, Chennai.

#### **Chief Editor**

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