

Dr. MAHALINGAM



COLLEGE OF ENGINEERING AND TECHNOLOGY
Enlightening Technical Minds

Dr. MAHALINGAM
COLLEGE OF ENGINEERING AND TECHNOLOGY

An Autonomous
Institution

Affiliated to Anna University, Chennai. Approved by AICTE.
Accredited by NBA and NAAC with Grade A

Udumalai Road, Pollachi - 642 003. Tamilnadu.

Department of Mechanical
Engineering

NEWSLETTER

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VISION AND MISSION OF THE DEPARTMENT

Vision

To transform students from rural background into professional leaders of tomorrow in the field of Mechanical Engineering with a strong sense of social commitment.

Mission

- To impart quality – engineering education leading to specialization in the emerging areas of CAD/CAM/CAE, Energy Engineering and Materials Technology.
- To provide continually updated and intellectually stimulating environment to pursue research and consultancy activities.

Programme Educational Objectives (PEOs)

The graduates will:

PEO1. Technical Expertise: Actively apply technical and professional skills in engineering practices towards the progress of the organization or the entrepreneurial venture in competitive and dynamic environment.

PEO2. Lifelong Learning: Own their professional and personal development by continuous learning and apply the learning at work to create new knowledge.

PEO3. Ethical Knowledge: Conduct themselves in a responsible, professional and ethical manner supporting sustainable economic development which enhances the quality of life.

Programme Outcomes (POs)

PO1. Apply knowledge of basic sciences and engineering concepts to solve complex mechanical engineering problems.

PO2. Identify, formulate, and analyze engineering problems using scientific principles and concepts.

PO3. Design products, manufacturing processes and facilities that deliver the requirements of the target customers and desired quality functions.

PO4. Conduct experiments, analyze and interpret data to provide solutions for engineering problems.

PO5. Use appropriate tools and techniques to solve engineering problems.

PO6. Apply contextual knowledge to make informed decisions in societal, health, safety, legal, entrepreneurial and cultural issues.

PO7. Demonstrate the knowledge of need for sustainable development in providing engineering solutions in global, environmental and societal

contexts.

PO8. Practice Ethical responsibility.

PO9. Work effectively in teams and build/manage interpersonal relationships. **PO10.** Communicate effectively through oral, non-verbal and written means. **PO11.** Apply management principles to manage individual and team work for executing projects in a multidisciplinary environment.

PO12. Articulate and engage in pursuit of career and life goals through continuous Learning.

Program Specific Outcomes PSOs

PSO 1: Demonstrate functional competencies for roles in design, manufacturing and service by learning through centers of excellence and industrial exposure.

PSO 2: Demonstrate behavioral competencies required for roles in design, manufacturing and service by learning through structured professional skills training.

Product Based Learning (PBL)

Product-based learning methodology is implemented in the department of Mechanical engineering from the academic year 2017-18 onwards. In view of continuous improvement, periodically reviews are conducted with subject matter experts from industries. In this connection, the below-mentioned Subject Matter Experts (SME's) visited our campus to take part in the design of courses aligned to product-based learning approach.

Sl. No	Name with designation	Date (s) of visit
1.	Dr.V.Kovaichelvan, Director- IQL, TVS Motor Company, Hosur.	25.11.2019 – 28.11.2019 19.12.2019-20.12.2019 (at TVS IQL)
2.	Mr C Vardharajan (Former R&D Head in TVS motor company Ltd, Hosur)	23.09.2019 - 25.09.2019 25.11.2019 – 28.11.2019 16.12.2019- 17.12.2019 19.12.2019 – 20.12.2019 (at TVS IQL)
3.	Mr P.K.Saranathan Quality Consultant	25.09.2019-26.09.2019 19.12.2019-20.12.2019 (at TVS IQL)



PBL course design review meeting held between 25-11-2019 and 28-11-2019 at MCET Dr. C. Ramaswamy – Secretary NIA Institutions, Dr. V. Kovaichelvan – Director – TVS IQL and HoD's from MCET and NPTC participated in the meeting

Faculty activities



Dr. I Rajendran receiving “ Outstanding Engineers Award” for the year 2019 from The Institute of Engineers, Coimbatore Local Chapter on 16-09-2019



Assistant Professor – Mr. M Padmanaban, Mr. M Gideon Ganesh, Mr. M Neelavannan, Mr. Sreejith S Nair and Technicians – Mr. C Settu and Mr. P Saravanakumar have completed the Training on “Robot welding and Material Handling” provided by Future Robotics and Automation, Bangalore in the new facility created at MCET between 05.12.19 to 09.12.19.



Dr. K. Hariharan, Assistant Professor (SS) of Mechanical Engineering Department addressing the gathering in the workshop

Dr. K. Hariharan, Assistant Professor (SS) of Mechanical Engineering Department acted as a resource person to deliver the guest lecture on the topic “Surface treatment of additive manufactured implants” during the Atal Workshop on “3D Printing and Design” organized by Department of Manufacturing Engineering, College of Engineering Guindy, Anna University, Chennai between 16-09-2019 and 20-09-2019.

Student Activities

Mr.Viswarjun(16BME010) S Mr. Manoranjan(18BME306) Ms.Suruthi(18BME302) have participated in Bharat Formula E-Karting Competition (Redmist Riders) from 10/09/2019-13/09/2019 and won Virtual round - 3rd, Best Innovation, Best Female Participant [Mehala.S, Production Engineering Department], Driver's Championships - 1st, Constructor's Championship- 3rd prizes.



Venkataprashath H(17BME308), Goutham B (16BME007) and Dharun Eshwar K S(16BME040) participated in EEE-YESIST12, Grand Finale -the project contest on 07-09-2019 and 08-09- 2019 conducted by Stamford International University, Thailand.



GM Sakthi Sree (16BME048) participated in Anvenshana 2019- a project competition on 09- 12- 2019 conducted by Agastiya International Foundation, Bangalore and won First Prize.

Rishikeshan S(16BME014), Harshavardhaan D(16BME020) and Ranjith Kumar K(16BME047) participated in Anvenshana 2019- a project competition on 09-12-2019 conducted by Agastiya International Foundation, Bangalore.



Rishikeshan S(16BME014), Harshavardhaan D(16BME020) and Ranjith Kumar K(16BME047) have participated in the National Science and Technology Fair at CODDISSIA, Coimbatore.



N.Muthusankar(16BME305) participated in Engineers Day Contest 2019 on 09-12-2019 conducted by Firebird Institute of Research in Management Coimbatore and won Second Prize.

R.Vasanth and M.S.Dinesh Kumar of II year have participated in a project contest for the celebration of Technology Day conducted by ELGi (P) Ltd., Coimbatore

Karthikeyan S(17BME306), Rathinakumar L(17BME309), Siddharthan A(17BME304) and Prashanthi N(17BME301) have participated in the finals of HACKATHON SMART INNOVATIVE GLOVE BOX DESIGN & RECYCLING TECHNIQUES FOR LITHIUM-ION BATTERIES from 28-12-2019 to 29-12-2019.

Prashanthi N(17BME301) has been a contestant in the National Best Welder Competition for women- 2019 conducted on 06-12-2019 by Kemppi India Pvt Ltd., & NextGen Plasma Pvt. Ltd.

List of Technical Events

The following events were conducted by MECHANICA ASSOCIATION

Sl.No:	Date & Time	Name of the event	No. of Participants
1	31.08.2019 (2.30 PM-4.00 PM)	Measure Mechon (component Measurement)	20
2	25.09.2019 (9.30 AM-4.00 PM)	Hydraulic Arm (Pick and Place Robot Making)	67
3	26.09.2019 (9.30 AM-1.00 PM)	Conception (Build a prototype from waste)	132
4	26.09.2019 (2.00 PM-4.00 PM)	Debate (IC engine vehicles Vs Electric vehicles)	52





Glimpses of Technical Events

List of Guest Lectures

These are the Guest Lectures organized in the department by MECHANICA Association

Sl.No:	Date & Time	Title of Guest Lecture	Resource Person	No. of Participants
1	22.07.2019 (11.00 AM-1.00 PM)	Contribution of Mechanical Engineering to the growth of Civilization	Mr.P.RameshKannan, Registered Patent Agent, QUADRIGA	315
2	26.07.2019 (2.00 PM-4.30 PM)	Advanced Welding Technologies	Dr.J.Krishnan, FNAE, FIE L& T Welding Chair, M. S. University Baroda.	160
3	27.07.2019 (9.00 AM-11.30 AM)	Failure Analysis on Welded structures	Dr.R.Vaideeswaran, Rtd. SM. BHEL, Metallurgy Consultant, Visiting Faculty NITT	160
4	27.07.2019 (11.45 AM-3.30 PM)	Design of Welding Fixtures	Dr.J.Krishnan, FNAE, FIE L& T Welding Chair, M. S. University Baroda.	155
5	28.09.2019 (11.30 AM-12.45 PM)	Automotive materials	Dr.R.Rajendran, SAE INDIA Engineering Education Board	146

			(Chair)SRM Institute of Science and Technology, Chennai.	
6	14.10.2019 (11.00 AM – 1.00 PM)	Flux cored Welding	Dr.J.Krishnan, FNAE, FIE L& T Welding Chair, M. S. University Baroda.	122
7	14.10.2019 (2.15 PM – 3.30 PM)	Solid State Welding	Dr.J.Krishnan, FNAE, FIE L& T Welding Chair, M. S. University Baroda.	104
8	15.10.2019 (9.10 AM-10. 50 AM)	Chromium-Molybdenum Steel Welding	Dr.J.Krishnan, FNAE, FIE L& T Welding Chair, M. S. University Baroda.	118
9	15.10.2019 (2.10 PM-3.10 PM)	Innovations for the technological progress	Dr.J.Krishnan, FNAE, FIE L& T Welding Chair, M. S. University Baroda.	86
10	16.10.2019 (9.10 AM-10. 50 AM)	Flux-cored welding and Welding defects	Dr.J.Krishnan, FNAE, FIE L& T Welding Chair, M. S. University Baroda.	96





Glimpses of Guest Lectures

Student internship activities

S.No.	Roll No.	Name of the Student	Name of the Company	Period	Stipend
1	16BME001	Sangeetha H.S.	TVS Motor Company, Hosur	2.12.19 – 30.4.20	CEP Students
2	16BME003	Gopinath R.M.			
3	16BME004	Uma S.K.			
4	16BME005	Ravindra H.P.			
5	16BME006	Shilpi Tiwari			
6	16BME007	Gautham. B			
7	16BME008	Rohith Ramanathan. J			
8	16BME009	Sunil C.M.			
9	16BME010	Vishwarjun.S			
10	16BME011	Rajanandhini.S			
11	16BME012	Adheera Theresa Peter			
12	17BME301	Prasanthi. N			
13	17BME302	Kalaiselvan .G			
14	17BME303	Habib Mukthar.A			
15	17BME304	Siddharthan. A			
16	17BME305	Govindharaj. R			
17	17BME306	Karthikeyan.S			
18	17BME307	Maharaja.S			
19	17BME308	Venkata Prasath.B			
20	17BME309	Rathinakumar. L			
21	17BME310	Arun Selvakumar.S			
22	17BME311	Sankar Ganesh.S			
23	16BME31	Muthusankar.S			
24	16BME019	Yaswanthram. V			
25	16BME052	Dhinesh Kumar.S			
26	16BME077	Santhosh Kumar.P			
27	16BME091	Tamilselvan.K	Baker Hughes, a GE Company, Coimbatore.	9.12.19 – 9.3.20 (3 Months)	Rs.25,000/- per month
28	17BME321	Manikandan.S			
29	16BME048	Shakthi Shree G.M.	Autoliv India Pvt.Ltd., Bangalore	18.11.19 – 17.11.20 (12 Months)	Rs.12,000/- per month
30	16BME081	Praveen.S			
31	17BME319	Maheshwaran. R			
32	17BME316	Manoj Prabhakar.D			

S.No.	Roll No.	Name of the Student	Name of the Company	Period	Stipend
33	17BME318	Mohan Prasath. K	L&T Valves Ltd., Coimbatore	19.11.19 – 18.1.20 (2 Months)	Rs.5,000/- per month
34	16BME027	Kavin Chithick.S		19.11.19 – 15.3.20 (3 months)	
35	16BME058	Vimal Prasad.S		25.11.19 – 24.1.20 (2 Months)	
36	16BME021	Vanchikumar.M			
37	17BME317	Balakumar.K			
38	16BME084	Kathiresan.R			
39	16BME026	Nithish Vishal.S			
40	16BME093	Vinoth.K			
41	16BME054	Sandhana Kumar.K			
42	16BME085	Nandhakumar. V			
43	16BME040	Dharun Eshwar	KSD ZONNE ENERGIE LLP - Solar Power Plant, Udumalpet	9.12.19 – 4.1.20 (1 month)	
44	16BME020	Harshavardhaan.D	2.12.19 – 28.2.20 (3 months)		
45	16BME056	Mathan. A	20.12.2019 – 28.02.2020 (3 months)		
46	16BME013	Harish Chander.S	4.12.19 – 20.12.19 & 17.2.2020 – 12.3.2020		
47	16BME032	Kishore Kumar K.S.	2.12.19 – 31.12.19		
48	16BME017	Pragadeesh R.K.	20.1.2020 – 20.2. 2020		
49	17BME312	Mohanapriya.S	Dharshana Pipe Industries, Omalur.	2.12.19 – 31.1.20 (2 months)	
50	16BME066	Saravanakumar.K	Sanmina SCI India Technology, Chennai	16.12.19 - 15.5.20 (6 months)	Rs.15,000/- per month
51	17BME317	Balakumar.K			
52	16BME036	Kannan N.S. (Non FT)			
53	16BME038	Harihara Vinayak.B	Arka Motor Sports Racing Training, Coimbatore.	2.12.19 – 29.2.20	
54	16BME046	Balaji.M	Tamil Nadu Newprint and Papers Ltd., (TNPL), Karur	27.11.19 – 26.12.19 (1 month)	