



# ERODE SENGUNTHAR

## ENGINEERING COLLEGE

(AUTONOMOUS)



# NEWSLETTER

## DEPARTMENT OF MECHANICAL ENGINEERING

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# DEPARTMENT OF MECHANICAL ENGINEERING

## ABOUT THE DEPARTMENT

The Department of Mechanical Engineering was established in the year 1996. It has the state of art laboratory facilities equipped with high caliber equipment and machinery. The department is collaborated with M/s Roots industry Coimbatore, M/s TVS Training and Services Chennai, National Skill Training Institute Bangalore and Advanced Training Institute Chennai to offer training to staff and students to improve their practical knowledge and skills. The department is an Approved Research Centre by the Anna University Chennai to carry out the collaborative research. UG programme of BE Mechanical Engineering is accredited by the National Board of Accreditation (NBA), New Delhi since 2009 and is reaccredited in the year 2020 for a period of three years.

Students are exposed to latest developments in the field of Mechanical Engineering by means of organizing symposia, seminars, workshops to enrich their knowledge. Apart from that, the students are trained in language laboratory to enhance their communication skills and in software packages to design and simulate and analyses the mechanical components.

## VISION AND MISSION STATEMENT OF THE DEPARTMENT



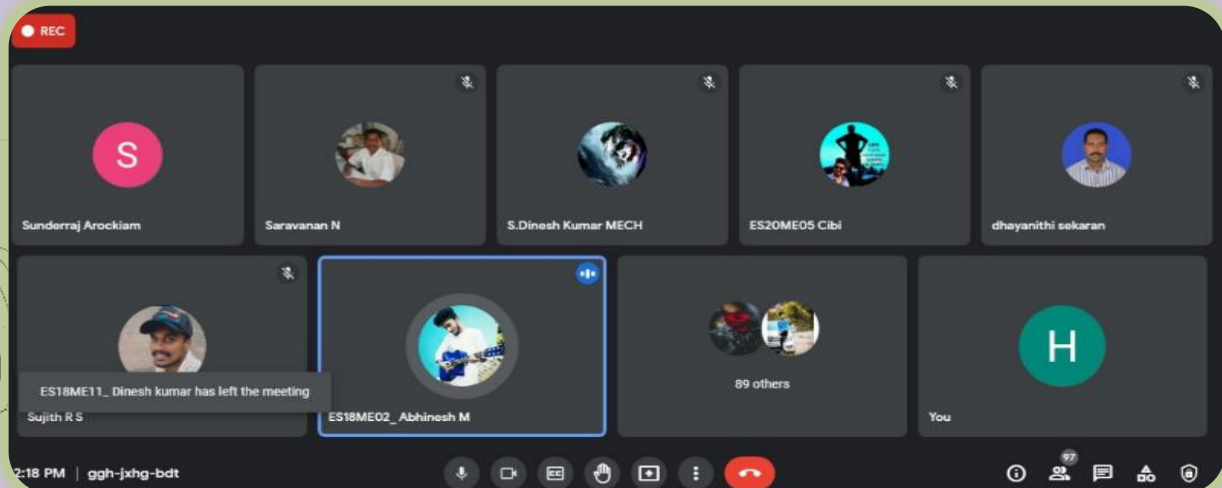
To become the premier department of excellence in the field of Mechanical Engineering, committed to provide global quality Mechanical Engineers to cater the needs of industries and the nation, in general.

- To impart quality technical education through innovative teaching and learning mechanisms.
- To build the state-of-the-art infrastructure facilitating the faculty and students to learn and disseminate knowledge and innovate in their career.
- To mould the aspiring young minds to emerge as successful practitioners of quality education through entrepreneurship, consultancy and research.
- To instil core values and strong ethics, nurturing the intellectual, socio-cultural and economic development of our diverse community.



# DEPARTMENT OF MECHANICAL ENGINEERING

## DEPARTMENT INAUGURAL FUNCTION:



THE DEPARTMENT OF MECHANICAL INAUGURATED THE MECHANICAL ENGINEERING ASSOCIATION AND ARRANGED A GUEST LECTURE ON PRODUCT DESIGN ON 31.08.2021, BY MR. SUNDERRAJ AROCIAM, SENIOR DESIGN ENGINEER, HCL TECHNOLOGIES, MADURAI.

CONVENOR : DR.N.SARAVANAN, HOD/MECH  
 ASSOCIATION : MR. G.DHAYANITHI, AP/MECH  
 COORDINATOR : MR. M.ABINESH, FINAL YEAR  
 PRESIDENT : MR.S.PRAGADESHWARAN, THIRD YEAR.  
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 JOINT TREASURER : MR. E.ABISHEK, FINAL YEAR.  
 EXECUTIVE MEMBERS : MR. S.DINESHKUMAR, FINAL YEAR.  
 MR. M.LOGESH, FINAL YEAR  
 MR. S.PRAVEENKUMAR, FINAL YEAR  
 MR. R.S.ARAVIND, THIRD YEAR  
 MR.S.RAGUNATH, THIRD YEAR  
 MR. G.SIRANJEEVI, THIRD YEAR  
 MR.R.SIVABHARATHI, THIRD YEAR  
 MR. K.ARULMANIKANDAN, SECOND YEAR

# DEPARTMENT OF MECHANICAL ENGINEERING

## DEPARTMENT ACTIVITIES:

## GUEST LECTURES:

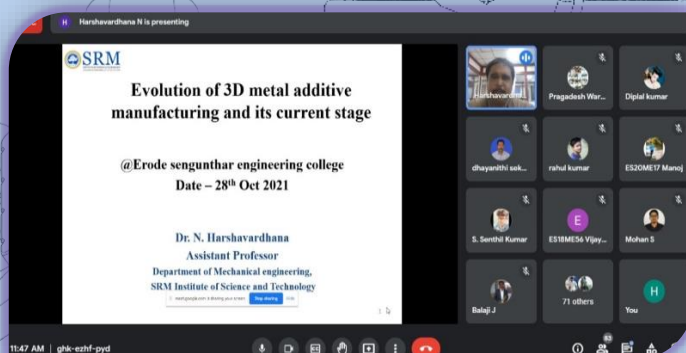


THE DEPARTMENT OF MECHANICAL ENGINEERING STUDENTS ASSOCIATION ARRANGED A GUEST LECTURE ON CFD APPLICATIONS IN MECHANICAL ENGINEERING ON 30TH SEPTEMBER 2021.

MR R.THUNDIL KARUPPA RAJ, PROFESSOR, DEPARTMENT OF AUTOMOTIVE ENGINEERING, VIT, VELLORE DELIVERED A LECTURE.

GUEST LECTURE ON INNOVATION DEVELOPMENT & TECHNOLOGY READINESS LEVEL (TRL) & COMMERCIALIZATION OF LAB TECHNOLOGIES" ON 22ND DECEMBER 2021.

DR.S.CHOCKALINGAM, ASSOCIATE PROFESSOR, RESEARCH AND DEVELOPMENT, E.G.S PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM DELIVERED A GUEST LECTURE.



THE DEPARTMENT OF MECHANICAL ENGINEERING STUDENTS ASSOCIATION ARRANGED A WEBINAR ON "EVOLUTION OF METAL ADDITIVE MANUFACTURING AND ITS CURRENT STAGE" ON 28.10.2021.DR.N.HARSHAVARDHANA M.E., PH.D. (IIT - BOMBAY), ASSISTANT PROFESSOR / MECHANICAL DEPARTMENT, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI DELIVERED A GUEST LECTURE.

# DEPARTMENT OF MECHANICAL ENGINEERING

## DEPARTMENT ACTIVITIES:

### EVENTS ORGANIZED BY THE DEPARTMENT:

SL.No	DATE	NAME OF THE EVENT	RESOURCE PERSON
1	12.09.2021	Expert talk on "Shortcut tricks in Heat and Mass Transfer"	Dr.R.Sasikumar- AsP/Mechanical, ESEC
2	6.10.2021	Soft skill Training on "Personality Development"	Dr.M.Pandian, Professor/Mech, ESEC
3	8.10.2021	Expert Talk on "Patent writing by Research"	Dr.T.Senthil, Professor/Department of physics, ESEC
4	05.11.2021	Guest Lecture on "New Product Development on Automotive Industries"	Dr.HussianBasha, Product Life Cycle Management (Incharge), R.V.RProcter Development, Sripermbutur.
5	14.11.2021	Expert Lecture on "How to solve problems in Thermal Engineering by Shortcut"	Dr.Y.Robinson, Prof/Mech, ESEC
6	15.11.2021	Expert Talk on "Awareness about Patent filing"	Mr.A.Jothimurugan, Director- M/s invenire, Coimbarore
7	18.11.2021	Guest Lecture on "Ultrafine grained materials: Old material with futuristic properties"	Dr.R.Jose Immanuel, Assistant Professor, Department of Mechanical Engineering, K.C.G College of Technology, OMR Road, Chennai.
8	25.11.2021	Guest Lecture on "Recent Advances in Mechanical Engineering: A Research Perspective"	Mr.Ashishes Kumar, Sr.Engineer, Vigshan Machine tool Products and service (Tire-I Supplier-Hyundai India), Sriperumbathur, Kancheepuram

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**STUDENT ACTIVITIES:****PAPER PRESENTATION BY STUDENTS:**

S.No.	DATE	NAME OF THE ORGANIZING INSTITUTION	NAME OF THE STUDENTS
1	13.11.2021	M.A.M School of Engineering, Trichy.	K.Arul Manikandan J.Sethubathi
2	13.11.2021	M.A.M School of Engineering, Trichy.	Mohammed Faizal S.Mohanraj
3	13.11.2021	M.A.M School of Engineering, Trichy	E.Abishek Jashwa T.Prasanth

**OTHER/TECHNICAL EVENTS PARTICIPATED BY STUDENTS:**

NAME OF THE STUDENT	EVENT NAME	NAME OF THE ORGANIZING INSTITUTION	DATE
S.Aswanth	World AIDS Day International Level Online Quiz Competition	Jayaraj Annapackiam College for Women (Autonomous) Nazareth.	29.11.2021
S.Aswanth U.Udhayakathir	Technical Quiz	M.A.M School of Engineering, Trichy.	13.11.2021

**EXTRA-CURRICULAR ACTIVITIES BY STUDENTS:**

S.No	NAME OF THE STUDENT	TITLE OF THE EVENT	AWARDS	NAME OF THE ORGANISATION	DATE	LEVEL OF PROGRAMME
1	P. Kavin Kumar	200 mts Running	1st place	Sri Amaravathi College Of Arts And Science, Velliyanai, Karur.	10.10.2021	State
2	S.Praveen Kumar S.Parthiban	Kabaddi	1st place	Sri Amaravathi College Of Arts And Science, Velliyanai, Karur.	10.10.2021	State
3	P. Kavin Kumar	200 mts Running	1st place	D.A.V Complex, Amritsar.	06.08.2021 to 08.08.2021	National

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**STUDENT KNOWLEDGE UPGRADATION THROUGH INFOSYS SPRINGBOARD:**

NAME OF THE STUDENTS	NAME OF THE COURSE	DURATION
R.S.Aravind S.R.Arunkumar R.Gowtham N.Naveen Kumar M.Neshamani R.Prasath Rao K.S.Praveen S.Santhosh Kumar G.Siranjeevi R.Siva Bharathi V.Vimalragavan Anupam Raj S.A.Kamalesh M.Kannan S.Sheikfarith K.Harish Babu	Introduction to Python	05.05.2022
R.S.Aravind S.R.Arunkumar S.Chandru R.Gowtham N.Naveen Kumar M.Neshamani R.Prasath Rao K.S.Praveen G.Siranjeevi R.Siva Bharathi Anupam Raj S.A.Kamalesh S.Sheikfarith	Java Language Features	09.04.2022

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**STUDENT KNOWLEDGE UPGRADATION THROUGH INFOSYS SPRINGBOARD:**

NAME OF THE STUDENTS	NAME OF THE COURSE	DURATION
E.Abishek Jashwa R.S.Aravind S.R.Arunkumar S.Chandru R.Gowtham N.Naveen Kumar M.Neshamani R.Prasath Rao K.S.Praveen Santhosh Kumar G.Siranjeevi R.Siva Bharathi V.Vimalragavan Anupam Raj S.A.Kamalesh M.Kannan S.Sheikfarith K.Harish Babu	Java Programming Fundamentals	7days
Abishek Jashwa R.S.Aravind S.R.Arunkumar S.Chandru R.Gowtham N.Naveen Kumar M.Neshamani R.Prasath Rao K.S.Praveen Santhosh Kumar G.Siranjeevi R.Siva Bharathi Anupam Raj S.A.Kamalesh M.Kannan S.Sheikfarith	Java SE 8 Features	7 days

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**FACULTY PARTICIPATION:**

NAME OF THE FACULTY	NAME OF THE EVENT	NAME OF THE INSTITUTION ORGANIZED	DATE	DURATION
Dr.M.Pandian	One day Webinar on "Plagiarism"	SVCE, Bangaluru.	16.08.2020	1 day
Dr.G.Kathiresan	FDP on "Modeling and Computational Techniques for Multiphase Systems"	K.S.R College of Engineering, Thiruchengode	09.12.2020 to 14.12.2020	5 days
	Webinar on "Everyone can do Quality Research-Insight on Quality Research"	Knowledge Institute of Technology, Salem	06.08.2020	1 day
Dr.R.Sasikumar	STTP on "Fixture Design-Online Mode"	Kriatec Services	29.09.2020 to 03.10.2020	5 days
Dr.G.Giridhar	Six days National Webinar Series on "A Vision Towards Materials and Manufacturing".	KPR Institute of Engineering and Technology, Coimbatore.	20.07.2020 to 25.07.2020	5 days
Dr.S.Navanethakrishnan	One day Webinar on "Technology-The Future of Recruitment"	Sri Eshwar College of Engineering, Chennai.	23.05.2020	1 day
	One day Webinar on "Future of Communication Engineering"	Sri Eshwar College of Engineering, Chennai.	20.05.2020	1 day
	One day Webinar on "AI & Machine Learning"	Sri Eshwar College of Engineering, Chennai.	14.05.2020	1 day
Mr.R.Srinivasamoorthy	Webinar Series on "A Vision Towards Materials and Manufacturing"	KPR Institute of Engineering and Technology, Coimbatore.	20.07.2020 to 25.07.2020	6 days
Dr.M.P.Prabhakaran	Webinar on "Solar Energy Current Senario & Future Trends"	St. Joseph's Institute of Technology	17.06.2020	1 day
	Webinar on "Joining Tubes Using Solid State Welding"	CIT, Coimbatore	03.06.2020	1 day
Mr.L.Moulidharan	Webinar on "Everyone can do Quality Research-Insight on Quality Research"	Knowledge Institute of Technology, Salem.	06.08.2020	1 day
A.Balakumaran	Training Program "Non Traditional Machining"	NITTTR, Chennai.	02.11.2020 to 06.11.2020	5 days
	FDP on "3D Printing & Design"	ATAL Academy	19.10.2020 to 23.10.2020	5 days
	Training Program "Non Traditional Machining"	NITTTR, Chennai.	02.11.2020 to 06.11.2020	5 days
	FDP on "3D Printing & Design"	ATAL Academy	19.10.2020 to 23.10.2020	5 days

# DEPARTMENT OF MECHANICAL ENGINEERING

## **PATENT REGISTERED BY THE FACULTY:**

- Dr.M.Pandian, Professor, Department of Mechanical Engineering, registered a patent on “A lightweight Mono Frame Chasis for E-Skater Scooter by Natural Fiber Metal Laminates”, application no: 2021104116 on 13.07.2021.
- Dr.M.Pandian, Professor, Department of Mechanical Engineering, registered a patent on “Real Time 3D Printing of Remote Object Through IoT Cloud Computing System Interfaced 3D Scanner”, application no:2021100150 on 19.05.2021.
- Dr.M.Pandian, Professor, Department of Mechanical Engineering, registered a patent on “6-Axis Robotic Workstation for Laser Engraving” application no:202141035860 A on 13.08.2021.
- Dr.M.Pandian, Professor, Department of Mechanical Engineering, registered a patent on “The Toxicological Aspects of Biogas from the Anaerobic Digestion of Household Waste” application no: 202141026006 on 25.06.2021.
- Dr.M.Pandian, Professor, Department of Mechanical Engineering, registered a patent on “Analysis of Impacts of the use of Solid Recovered Fuel in Pollutants Found in Gasification” application no: 2024124036 on 11.06.2021.
- Dr.S.Navaneethakrishnan, Assistant Professor, Department of Mechanical Engineering published a patent on “The Toxicological aspect of Biogas From The Anaerobic Digestion of Household Waste”, application no: 202141026006A on 25.06.21.

## **FACULTY BOOK CHAPTER PUBLICATION:**

- Mr.N.S.Mohan, Assistant Professor, Department of Mechanical Engineering, published a book chapter entitled “Characterization of Ha/Alumina and Ha/MgO Nanocomposite for Biomedical Applications: Synthesis and its Structural Properties, Manuscript no:2021/BP/1839A/8640.

## **FACULTY JOURNAL PUBLICATION:**

- Dr.S.Navaneethakrishnan and P.Chokkalingam published a paper on “Enhancement of Mechanical Properties of PFC by Chemically Modified Areca Fine Fibers” in the International Journal of Tierärztliche Praxis, ISSN: 0303-6286 ,Vol 41,2021.
- Mr.S.Manikandan published a paper on “The lubricating properties of Graphene-NiO/Coconut oil hybrid nanofluids” in the International Journal of Materials Science and Engineering, <https://doi.org/10.1016/j.matpr.2021.02.288> 2214-7853.
- Dr.S.Navaneethakrishnan and Mr.P.Chokkalingam, Assistant Professors, Department of Mechanical Engineering published a paper on “ Enhancement of Mechanical Properties of PFC by Chemically Modified Areca Fine Fibers PCDPM” in the international journal – Tierärztliche Praxis.

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## STUDENT INTERNSHIP DETAILS:

- *Ajith Prabhu, Karthi E, Prabhakaran C, Sabari V, Sounderarajan M S & Vijay G, Students of III-year Mechanical Engineering undergone Internship at Hashtag CNC Automation, Coimbatore.*
- *Abishek Jashwa E, Anburaj M, Devenderan S, Kathiravan D, Sanjay M, Sukumar K & Samuel Rajkumar J Students of III-year Mechanical Engineering undergone Internship at of Hi-Tech CNC Automation, Coimbatore.*
- *Aravind R S, Chandru S, Gowtham R, Naveen kumar N, Praveen K S, Sakthivel K, Santhosh kumar S, Vimalragavan V, Praveen Vignesh A, Aravinthan K, Arunkumar S R, Prasath Rao R, Kamalesh S A, Kannan M & Prasanth T belonging to III-year Mechanical Engineering undergone Internship at NLC, Neyveli.*
- *Ragunat S, Santhosh S, Siranjeevi G, Siva Bharathi, Jeeva Gowtham, Harish Babu & Sheik Farith S A Students of III-year Mechanical Engineering undergone Internship at of Hi-Tech CNC Automation, Coimbatore.*
- *Neshamani M & Pragadeeshwaran belonging to III-year Mechanical Engineering undergone Internship at NLC, Neyveli from 08.11.2021 – 25.11.2021.*
- *Harish Kumar S, Soundarrajan C & Subash S belonging to IV Mechanical Engineering undergone Internship at Virrudheeswara Engineering Services, Coimbatore from 04/10/2021 to 11/10/2021.*

MECHANICAL ENGINEERING BLOCK

# DEPARTMENT OF MECHANICAL ENGINEERING

## **ALUMNI INTERACTION WITH STUDENTS:**



Mr. Aravind Kanna, Mechanical Alumnus, ICICI Bank Manager, Chennai had an interaction with the third year Mechanical Engineering students during Leader's talk on "Current Scenario in Mechanical Engineering Field" on 25.08.2021

Mr. M. Ajai Devakan, Mechanical Alumnus, Project Manager in ECO CARE Private Ltd Chennai, has interacted with third year Mechanical Engineering students during Leaders talk on "Career opportunities for Mechanical Engineering students" on 01.09.2021



Mr. R. Arunraj, Mechanical Alumnus, O2C Associate, EGC Global, Kochi, has interacted with the third year Mechanical Engineering students during Leader's talk on "Job opportunities in Gulf" on 20.10.2021.



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