

# **ERODE SENGUNTHAR**

**ENGINEERING COLLEGE** 

(AUTONOMOUS)



# **DEPARTMENT OF** MECHANICAL ENGINEERING

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AY-2019-2020

## 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.



### **MECHANICAL ENGINEERING**

### **MOU WITH MACBRO TECHNOLOGIES ERODE:**



### **ABOUT MACBRO:**

Macbro Technology India Pytotd is a Global Engineering Solutions Provider, facilitating customers

to plan, conceptualize design, and manufacture products.

We operate in domains pertaining to Automotive, Aerospace, Fransportation, and Consumer

products with clientele spread internationally.



#### **CAE - Virtual Simulation**

With our technology and team of wellequipped engineers, we provide simulations and testing for a range of products, thus creating a reliable product.



#### Automotive

With a futuristic vision and in-depth automotive knowledge, we are associated with many OEM's and Tier-1 partners of the Automotive Industry as either a director indirect partner.



#### Aerospace

We collaborate with the customer's team to do a feasibility report of their aviation project from the initial design. With these we will produce prototypes that are accurately



MACBRO
Global Engineering Solutions

AY-2019-2020



### **MECHANICAL ENGINEERING**

### **MESA INAUGURAL:**



### INAUGURAL FUNCTION OF MECHANICAL ENGINEERING STUDENT ASSOCIATION

**ASSOCIATION** 

COORDINATOR

**PRESIDENT** 

VICE PRESIDENT

SECRETARY

TREASURER

JOINT SECRETARY

JOINT TREASURER

**EXECUTIVE MEMBERS** 

: MR. G. DHAYANITHI, AP/MECH

MR.R.SRIGANESH, FINAL YEAR.

: MR. M.MABOOBASHA, THIRD YEAR

MR.T.ASHWIN THANGAVELU, FINAL YEAR

: MR.K.RAJESH, FINAL YEAR.

MR.M.ARUN KUMAR, THIRD YEAR

MR.M. TAMILSELVAN, SECOND YEAR.

MR.T.SAISATHIYA, FINAL YEAR.

MR.K. VASANTH, FINAL YEAR.

MR. R. GURUNISHANTH, THIRD YEAR

MR. P.GOPINATH, THIRD YEAR

MR. A.M.RAJASEKAR, THIRD YEAR

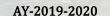
MR.S. RATHINAMOORTHI, THIRD YEAR

MR. M. VASANTHAKUMAR, THIRD YEAR

MR. K.VIJAY, THIRD YEAR

MR. M.ABINESH, SECOND YEAR

MR.R.PARANTHAMAN, SECOND YEAR



### **GUEST LECTURE & OTHER EVENTS:**



Guest lecture on "Hybrid Electrical Vehicles on Future Trends" by MR.J.JAYAPRAKASH,

ENGINEER, DEPARTMENT OF CONCEPTUAL DESIGN AND DEVELOPMENT,
MADRAS ENGINEERING INDUSTRIES PRIVATE LIMITED



Guest lecture on "Needs to Improving Effective Communication in Industry" by PROF.C. MANOHARAN, PROFESSOR,

GOVERNMENT COLLEGE OF ARTS AND SCIENCE, SALEM (SEVEN ARTS)

Name of the Lecture	Handled by		
Guest lecture on "Needs to analysis the Optimized	Prof.R.Viswanathan,		
process Parameters and the variable process parameters	Associate Professor,		
on the 3D Additive Manufacturing Process"	Nehuru Institute of Technology, Chennai.		
Guest Lecture on "Needs Mechanical Engineer in Design	Mr.P.Manikandan,		
Domain Important of Learning Japanese Language and	Head and Research & Development		
Corporate Culture"	MACBRO Engineering Solutions, Erode		
Guest Lecture on "Future Trends in Additive	Prof.G.Vijayaragavan Kumar,		
Manufacturing Process"  Additive	Professor/Mech,		
	SRM Science and Technology, Chennai		
Guert Testing on "Navy Product Development on	Mr.K.L.Harikesavan, New Product		
Guest Lecture on "New Product Development on	Development (Branch of R & D),		
Mechanical Wastage"	Look India New Products PVT.Ltd , Hosur.		



### FACULTY DEVELOPMENT PROGRAM & WORKSHOP:



Faculty Development Programme on "Intellectual Property Rights (IPR)" by

PROF.G.RAJAMUTHU,

ASSOCIATE PROFESSOR,

ADHIYAMAN COLLEGE OF ENGIONEERING, HOSUR.



Faculty Development Programme on "Intellectual Property Rights (IPR)" by

C.RATHAN KUMAR, SR.MANAGER,

JAYALAKSHMI ENGINEERING ENTERPRISE PVT. LTD,

(SUPPLIER - HARITHA SEATINGS) HOSUR.



Workshop on "Modelling and analysis of Engine Components using Fusion 360 Software" by PROF.M.SHUNMUGARAJ,

ASSOCIATE PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, KALASALINGAM UNIVERSITY, KRISHNANKOVIL.





### STUDENT INVOLVEMENT IN NSS ACTIVITY:



Tree Plantation in Association with L&T Constructions



Tree Plantation by Students of Mechanical Engineering

## MECHANICAL ENGINEERING

### **FACULTY PARTICIPATION:**

NAME OF THE FACULTY	EVENT NAME	ORGANIZING INSTITUTE	DATE
Mr.C.Chelladurai Mr.S.Manikandan Mr.N.S.Mohan Mr.R.Kalidasan Mr.G.Dhayanithi Mr.N.Navaneethakrishnan Mr.M.Naveenkumar	Online Webinar Series on "Recent Developments in Surface Engineering, Advances in Welding Techniques, Latest Trends in Composite Materials, Know your Industry, Art of Writing Research Articles.  Workshop on "Introduction to Additive	Excel Engineering College, Namakkal.	27.04.2020 to 01.05.2020
Mr.G.Kamalakkannan Mr.D.Hariharashayee	Manufacturing".	Skill Lync	17.04.2020
Dr.S.Nayaneethakrishnan Mr.G.Gowrishankar Mr.K.Kumaravel Mr.S.Karthikeyan	One day Webinar on "Future Scope of Electric Vehicle"	Sri Eshwar College of Engineering, Chennai.	03.05.2020



### STUDENT ACHIEVEMENTS:

No of Students	EVENT NAME	EVENT NAME PRIZE/AWARDS WON	
N.R.NAVANEETHA KRISHNAN A.M.RAJASEKAR	TECHNICAL QUIZ	I PLACE	27.09.2019
M.ABHINESH	PAPER PRESENTATION	I PLACE	26.09.2019
N.R.NAVANEETHA KRISHNAN A.M.RAJASEKAR	TECHNICAL QUIZ	I PLACE	24.09.2019

### TECHNICAL EVENT PARTICIPATION BY STUDENTS:

NAME OF THE STUDENT	TITLE OF THE EVENT	NAME OF THE ORGANIZATION	DATE
B.PRABU J.SETHURAMAN R.TAMILVANAN M.TAMILSELVAN	CAD MODELLING	NANDHA COLLEGE OF TECHNOLOGY, ERODE.	27.09.2019
P.YOGESHWARAN C.ANANDHAKUMAR			
B.PRAVEEN B.PRABU	TECHNICAL QUIZ	Nandha College of Technology, Erode.	24.09. 2019
B.DHANABAL ARUNKUMAR M DHASHARATHI J	TECHNICAL QUIZ	EXCEL ENGINEERING COLLEGE, NAMAKKAL.	14.09. 2019
K.ULAGANATHAN S.VIGNESH	TECHNICAL QUIZ	EXCEL ENGINEERING COLLEGE, NAMAKKAL.	14.09.2019

### PAPER PRESENTED BY STUDENTS:

	NAME OF THE STUDENT	NAME OF THE ORGANIZATION	DATE
	S.VIGNESH		
	C.VINIOTH KUMAR	KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY,	
	V.ELIZABETH RANI	TRICHY, TRICHY	
	N.Kavya		00 10 2010
	A.YAJITHKUMAR		09.10.2019
	K.ULAGANATHAN	KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY,	
	S.Vignesh	TRICHY	
	S.DINESHKUMAR		
	A.M.RAJASEKAR	has a Characterian and the state of the stat	
	M.SANGAMESHWARAN	EXCEL ENGINEERING COLLEGE, NAMAKKAL.	07.00.0010
	N.R.NAVANEETHA KRISHNAN	Every Every Francisco Column Number	27.09.2019
	P.PRADHIP	EXCEL ENGINEERING COLLEGE, NAMAKKAL.	
	B.Mohanraj	Number Courses on Transport Courses of the Course of the C	***********************
	A.M.RAJASEKAR	NANDHA COLLEGE OF TECHNOLOGY, ERODE.	
6	P.PRADHIP	Number Control of Transport Control	
1	N.R.NAVANEETHA KRISHNAN	NANDHA COLLEGE OF TECHNOLOGY, ERODE.	
	K.ULAGANATHAN		24.09.2019
1	S.VIGNESH	NANDHA COLLEGE OF TECHNOLOGY, ERODE.	
7	K.VENKATACHALAMOORTHI		
1	A.YAJITHKUMAR	Number Control of Transport Control	
	T.SRIDHAR	NANDHA COLLEGE OF TECHNOLOGY, ERODE.	



### **WORKSHOP / SEMINAR PARTICIPATION:**

No of Students	EVENT NAME	Name of the Organization	DATE
	WORKSHOP ON	100-33 (0-0)	
B.DHANABAL	"EMERGING TRENDS IN	Nandha College of	14.02.2020
- in	ELECTRICAL VEHICLE	TECHNOLOGY, THINDAL ERODE	
	DESIGN"	47/16	
S.MUTHUKUMAR	ELECTRIC VEHICLES AND	KUMARAGURU COLLEGE OF	12.10.2019
R.SUDHARSAN	ITS RECENT	ENGINEERING, COIMBATORE.	
	ADVANCEMENTS		
K.SOWMYAN			
T.SRIDHAR K.VENKATACHALAMOORTHI			
V.G.DINESH	RECENT TRENDS IN		
L.VIGNESH	DRILLING AND WELL		
R.SIVARAMAKRISHNAN	COMPLETIONS -	DAANISH AHMED COLLEGE OF	12.10.2019
K.ULAGANATHAN	OFFSHORE AND	ENGINEERING, CHENNAI.	12.10.2019
A.Thasaras	ONSHORE		$\sqrt{-1}$
G.MOHANNARAVIND			X / / /
A.SURESH			977 i
B.ANBU			
B.DHANAPAL		9 10/0	
N.R.NAVANEETHA			<i>= 1</i>
KRISHNAN			
S.PRAVEEN			<u> </u>
R.PRAVEEN	WORKSHOP ON	MAHENDRA ENGINEERING	$\mathcal{A} \supset \mathbb{R}$
J.SETHURAMAN	"ARDUINO"	COLLEGE, MALLASAMUDRAM	19,09.2019
S.SARANCHAKRAVARTHI	D) ARBONYO	COLLEGE, WALLASAVIDENAM	X (20)
K.VIJAY			
P.VIJAY	V/H((O)))H\\		
R.SURYAPRAKASH ( )			
L.VIGNESH			
J.PRASANTH			
B.PRABHU			
M.PRASANTH	SEMINAR ON	55 7/11/24	
S.SATHISH C.B.SANGAMESHWARAN	"ARTIFICIAL		
A.SANJEEKUMAR	INTELLIGENCE	VELALAR COLLEGE OF	
B.RAJABANDI	TECHNIQUES AND	ENGINEERING AND	21.12.2019
M.MABOOB BASHA	THEIR APPLICATIONS	TECHNOLOGY, THIDAL, ERODE	
P.GOPINATH	IN DESIGN AND		
N.R.NAVANEETHAKRISHNAN	MANUFACTURING"		
B.PRAVEEN			
P.MATHAN KUMAR		*//#	
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### **FACULTY JOURNAL PUBLICATION:**

No of the Faculty	TITLE OF THE PAPER	JOURNAL NAME	PUBLICATION DETAILS
DR.S.NAVANEETHAKRISHNAN	WEIBULL DISTRIBUTION ANALYSIS OF ROSELLE AND COCONUT- SHELL REINFORCED VINYLESTER COMPOSITES	AUSTRALIAN JOURNAL OF MECHANICAL ENGINEERING	PUBLISHED ONLINE: 24 JUL 2019 VOLUME 19, 2021 - ISSUE 4PAGES 457-466 HTTPS://DOI.ORG/10.1080/14484 846.2019.1637089 HTTPS://WWW.TANDFONLINE.COM/DOI/ABS/10.1080/14484846.2019 .1637089
DR.S.NAVANEETHAKRISHNAN	ENHANCED MECHANICAL PROPERTIES OF GLASS FIBRE REINFORCED POLYMER COMPOSITES WITH ADDITION OF AL2O3	AUSTRALIAN JOURNAL OF MECHANICAL ENGINEERING	PUBLISHED ONLINE: 04 Nov 2019 VOLUME 20, 2022 - ISSUE 1, PAGES 212-220 HTTPS://DOLORG/10.1080/14484 846.2019.1681848 HTTPS://WWW.TANDFONLINE.COM/D OI/ABS/10.1080/14484846.2019. 1681848?JOURNALCODE=TMEC20

### FACULTY KNOWLEDGE UPGRADATION THROUGH NPTEL:

	NAME OF THE FACULTY	NAME OF THE COURSE COMPLETES	DURATION	SCORE
	DR.M.PANDIAN, PROF/MECH	NBA ACCREDITATION AND TEACHING LEARNING IN ENGINEERING (NATE)	12 WEEKS	91%
	DR.S.NAVANEETHAKRISHNAN, ASP/MECH	NBA ACCREDITATION AND TEACHING LEARNING IN ENGINEERING (NATE)	12 WEEKS	84%
	MR.G.DHAYANITHI, AP/MECH	NBA ACCREDITATION AND TEACHING LEARNING IN ENGINEERING (NATE)	12 WEEKS	88%
	MR.R.SRINIVASAMOORTHY, ASP/MECH	NBA ACCREDITATION AND TEACHING LEARNING IN ENGINEERING (NATE)	12 WEEKS	86%
	DR.M.PANDIAN, PROF/MECH	HEAT EXCHANGERS: FUNDAMENTALS AND ANALYSIS	12 WEEKS	52%
	Mr.N.S.Mohan, AP/Mech	MANUFACTURING OF COMPOSITES	8 WEEKS	70% (ELITE))
	MR.K.KUMARAVEL, AP/MECH	MANUFACTURING OF COMPOSITES	8 WEEKS	60% (ELITE)
	MR.G.DHAYANITHI, AP/MECH	MANUFACTURING OF COMPOSITES	8 WEEKS	60% (ELITE)
J.	MR.R.SRINIVASAMOORTHY, ASP/MECH	FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE	12 WEEKS	64% (ELITE)
	MR.S.MANIKANDAN, AP/MECH	ACCREDITATION AND OUTCOME BASED LEARNING	8 WEEKS	53%



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