

MOET

DR. MAHALINGAM

COLLEGE OF ENGINEERING AND TECHNOLOGY

Udumalai Road, Pollachi, Coimbatore District 642003

Estd. 1998 | AICTE Approved | Affiliated to Anna University

An Autonomous Institution



NAAC A++ GRADE
Cycle 2 (2018-2023)
The Highest Grade

DEPARTMENT OF MECHANICAL ENGINEERING

MECHANICA

NEWS LETTER

VOLUME-1



 **MECHANICA**

JUN 22-DEC 22

EDITORIAL BOARD

CHIEF PATRONS

Dr.M.Manickam

Chairman, MCET

Mr.M.Harihara Sudhan

Correspondent, MCET

Dr.C.Ramaswamy

Secretary, NIA

ADVISORY COMMITTEE

Dr.P.Govindasamy

Principal

Dr.I.Rajendran

Head of the Department

FACULTY COORDINATORS

Mr.S.GnanaKumar, AP/Mech,MCET

Mr.K.Maniraj , AP/Mech,MCET

EDITORS

Prakasini S.V(21bme037)

Selva Natheya .R (21bme027)

Department of Mechanical Engineering

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 a 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.

Program 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) - Regulations 2019

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.

16 SEP 22

Inauguration



On September 16, 2022, Mechanica, the department association of mechanical engineering, was inaugurated.

Dr. K. Rajasekar, an alumnus, inaugurated the association and gave a technical presentation on vehicle integration and system design.



tech talk

NEWS LETTER
MECHANICA

23 SEP 22 - 24 SEP 22

Technofette

CAD MODELLING CONTEST



NON TECHNICAL EVENTS



Various non-technical events were held in conjunction with the technofete cad modelling contest, and many students avidly participated.

NEWS LETTER

MECHANICA

- Alumni from 2016–2020 and 2017–2021 interacted with students, had a great time, and treasured their memories



Alumni interaction

"Alumni never fade from our recollections because they leave indelible imprints on our minds."



7 OCT 22

8 OCT 22

NEWS LETTER

MECHANICA

15 OCT 2022

Awareness on MCET-IIC innovation start up policy



Dr. D. Nathan gave a presentation to second- and third-year students about Mcet's innovation start-up policy in order to encourage companies from young, dynamic minds.

MECHANICA



NEWS LETTER

*Student
participation!*



17 SEP 23

TEK CLUSTER 2022

*Students from second year
and third year
Participated in TEK
CLUSTER 22 conducted in
Kongunadu College Of
engineering and
technology.*



Nitish V B - 22BME 301
Rohith Kumar S - 22BME308
Anson Vijay R -22BME310
Ashok Kumar N-22BME344
Gokul M - 22BME046
Bharath Kumar B-20BME035
Harish M -20BME037

congratulations!!

NEWS LETTER

MECHANICA

Student participation!

NEWS LETTER



17 SEP 23

JET MECH 2022

Students of second year participated in jetmech 22 conducted by st.joseph college of engineering



Selva Boopathy K-21BME031

Logesh S-21BME032

Gugan SR-21BME043

Gokul Prasath N-21BME051

Selvapradeesh N-21BME053

Maheshwaran MS-21BME062

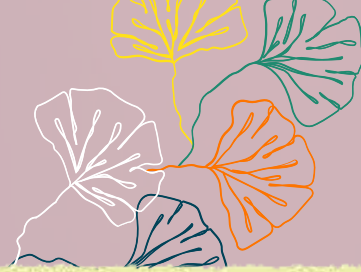
Sasikumar T-21BME063

congratulations!!

NEWS LETTER

MECHANICA

26 , 27 SEP 22



Student participation!



DRONE DESIGNING

Second year student A kawin participated in the drone designing workshop conducted by DR.Mahalingam college of engineering and technology.

A kawin -21bme057

congratulations!!

NEWS LETTER

MECHANICA

19, 20 OCT 22



Student participation!



Tech spark 2022
Students of third year has participated in the technical symposium conducted by sengunthamar Engineering college, thiruchengode.

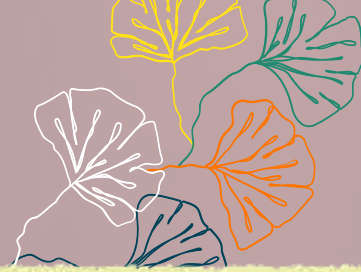
congratulations!!

Santhosh S-20BME015
Nishanthan S-20BME017
Harish M-20BME037

NEWS LETTER

MECHANICA

10 NOV 22



Student participation!

Welding for Beginners

**Students of Second
year has participated
in the workshop
welding for beginners
conducted in
Kumaraguru college of
Engineering and
technology.**



congratulations!!

Logesh S-21BME032

Vijay Murugan SK-21BME058

Maheshwaran MS-21BME064

Rohith kumar.S-22BME308

Anson Vijay.R-22BME310

Mohammed ImranR-22BME316

Sreeram Vasanth M-22BME326

NEWS LETTER

MECHANICA

*Student
participation!*



17 NOV 22

Fundamentals of Python for Engineers

*Students of second
year and third year
has participated in the
fundamentels of
python for engineers
workshop conducted
by KGISL institute of
technology,coimbatore.*



NEWS LETTER

MECHANICA

Gopala Krishnan -21BME302
Aathi Varshini S-21BME317
Jaiadhithya- P21BME333
Ashwin A-21BME345
Manicka Prabu.SR-21BME010
Harini M-21BME018
Selva Vasundhara C-21BME036
Dinesh M-21BME038
Bharanitharan M-21BME044
karthik Methun LM-21BME050
Dhanush R-21BME054
Gokul Prasath N-21BME051
Vijay Murugan SK-21BME058
Anand M-21BME062
Mari Sankar G-21BME070



congratulations!!

5,6,7 NOV 22

*Student
participation!*



Advanced Model Rocketry

Students from third year participated in Advanced model rocketry workshop conducted by INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY, Thiruvananthapuram.

congratulations!!

Kavisankar S- 20BME011

Abshek RonaldoC-20BME019

Bharath KumarB-20BME035

Affreeth H-20BME045

Hari prasath S-20BME045

Gopala Krishnan M-21BME301

Pradeep KumarR-21BME302

Logesh Prabu S-21BME304

Jagadeeswaran M-21BME305

Gokul Krishnan N-21BME314

Kumarahariparan- 21BME315

Srinivasan R-21BME316

Srinivasraj J-21BME330

Lakshmanakumar B-21BME331

Sanjay N-21BME336

Deepak Sakthi Ram A-

21BME349

Dharun S-21BME354

Dhayananth R-21BME357

Aswin S-21BME365

Barkathulla I-21BME373



NEWS LETTER

MECHANICA

5,6,7 NOV 22

Student participation!



Advanced Model Rocketry

Students from second year participated in Advanced model rocketry workshop conducted by INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY, Thiruvananthapuram.



congratulations!!

21BME005 -Kavin Kumar N
21BME007- Gopinath R
21BME015 -Muthaiya K
21BME021- Mathan Kumar M
21BME041 -Varun Dev S
21BME045- Naveen M
21BME047 -Mohamed athil S
21BME057- Kawin A
21BME067 -Anbarasan U
22BME313- Rahul S
22BME315 -Sanjay bharathi M
22BME325- Mohan Kumar P

NEWS LETTER

MECHANICA

*Student
participation!*



13 DEC 22

MECHTRIGER S 22

Students of second
year participated in
Mechtriggers
conducted by
Hindustan institute of
technology, Coimbatore



22BME318- Abhinith US
22BME320- Mohammed aathil S
22BME322- Jayanth nivasan K
22BME348 -Satheesh Kumar S
22BME356- Ranjith P
22BME365- Tharun S
22BME307- Mani Sekar S

congratulations!!

NEWS LETTER

MECHANICA

Student participation!



17 NOV 22

EV TRION

Students of second year and third year has participated in the EV trion workshop conducted by Government college of technology, coimbatore.



22BME303- Azhahar Balaji T
20BME005- Akashaya KL
20BME009 -Krishvarun M
20BME043 -Raagul Rangaraj
21BME365 -Aswin S
20BME006 -Karthikeyan M
20BME008- Balaji K
20BME010 -Sannjay S V

NEWS LETTER

congratulations!! MECHANICA

*Student
participation!*



7 NOV 22

Insights of Industrial Design

*Students from final year
participated in Insights
of Industrial Design
workshop conducted in
DJ Academy ,Coimbatore.*



19BME053 Logesh C
19BME063 Boobalan K
19BME075 Prathesswaran H
20BME305 Sabareesh G
20BME331 Vignesh N

congratulations!!



NEWS LETTER

MECHANICA



students achievements

AY-2022-2023



Congratulations!!!

S.No	Name of the student	Name of the award/prize	year	Name of the event	Awarded by	Date
1	Anson vijay.R	First	II	Tek Cluster'22	Kongunadu college of engineering and technology, trichy	17.09.2022
2	Selva boopathy.K	First	II	JETMEC	St.Joseph college of engineering and technology, chennai	17.09.2022
	Gugan.S.R					
	Sasikumar.T					
3	Harish.M	First	III	Tech Spark 2022	Sengunthar engineering college	19.10.2022 & 20.10.2022
4	Mohammed aathil.S	First	II	Mechtrigers 22	Hindustan institute of technology coimbatore	18.11.2022
5	Abhinith.U.S	Second				

FACULTY ACHIEVEMENTS

AY-2022-2023

Paper published in international journals

S. No	Title of the paper	author	Name of the journal	Published by	year
1	Microstructure and tribological properties of microwave-sintered Ti _{0.8} Ni-0.3Mo/TiB composites	Dr.T.Ramkumar	Ceramics International	Elsevier	44972
2	Cenosphere filled epoxy composites: structural, mechanical, and dynamic mechanical studies	Dr.T.Ramkumar	Biomass Conversion and Biorefinery	Springer	45020
3	Suitability assessment of raw-alkalized Ziziphus nummularia bark fibers and its polymeric composites for lightweight applications	Dr.I.Rajendran, Dr.N.Shanmuga Sundaram, Mr.S.V.Gurupranes	polimer Composites	Wiley	June 2022
4	Characterization of Natural cellulose fibers from the barks of Zizipus nummularia as a Reinforcement for Lightweight composite Applications	Dr.I.Rajendran, Dr.N.Shanmuga Sundaram, Mr.S.V.Gurupranes	Journal of Natural Fibers	Taylor & Francis	Dec 2022
5	Investigation of static and dynamic mechanical properties of CPFLSF and PPLSFreinforced polyester hybrid composites	Dr.Rama Thirumurugan Dr.N.Shanmugasundaram	Biomass Conversion and Biorefinery	Springer	Oct 2022

6	Effect of Various Surface Modifications on Characterization of New Natural Cellulosic Fiber from Coconut Tree Secondary Flower Leaf Stalk Fiber (CSF)	Dr.T.Ramkumar Dr.k.hariharan Dr.M.selva kumar	Journal of Natural Fibers	Taylor & Francis	July 2022
7	Effect of microwave sintering on the microstructure and tribological behavior of Ti-3Al-2.5 V-xWC composite	Dr.T.Ramkumar Dr.M.selva kumar	Tribology International	Elsevier	Oct 2022
8	Evaluation on properties of composite materials containing Caryota fiber (CF) for wall roof applications	Dr.T.Ramkumar Dr.M.selva kumar	Biomass Conversion and Biorefinery	Springer	Nov 2022
9	Microstructure and tribological properties of microwave-sintered TiO ₂ -8Ni-0.3 Mo/TiB composites	Dr.T.Ramkumar	Ceramics International	Elsevier	Nov 2022
10	Investigations on thermal properties of MWCNT- NBN Paraffin Wax phase change material for thermal storage applications	Dr.T.Ramkumar	Journal of Thermal Analysis and Calorimetry	Springer	Jan 2023

Details of external projects

Sl.No:	Project Title	Name of the MCET student	Name of the School student	Project Mentor & Designation with Department
1	Caryota Mitis Fiber Composite	Aravindhkumar .B 20BME329	Dharassan ND - 9th STD, GHS Makkinampatti	Mr. Gurupranes SV
		Vishnuram.P 20BME315	Sudarsan M 9th STD, GHS Makkinampatti	
2	Natural Composite	Thirunavukkarasu. N 20BME341	Sai Babu V 9th STD, GHS Makkinampatti	Assistant Professor Mechanical Department
		Rakesh pandian V 20BME332	Nikhil R 9th STD, GHS Makkinampatti	



participation in seminar /conference/workshop/training

S.No	Name of the faculty	Title of program	Nature of program	venue	date
1	Dr.Rama thirumurugan	The joy of computing using python	FDP & Online course	NPTEL	Jul to oct 2022
2	Dr.S.Ayyappan	Challenges and opportunities in electric vehicles and automotive technology	National seminar	Dr.Mahalingam college of engineering and technology	09.02.2023-10.02.2023
		Green growth and sustainability in emerging trend	Productivity conclave-2023	Hotel the residency	21.02.2023
3	Dr.D.Nathan	Introduction to industry 4.0 and industrial internet of things	FDP & Online	NPTEL	JUL – OCT 2022

4	Dr.S.Madhusudhanan	Advanced machining process	FDP & Online	NPTEL	AUG-OCT 2022
5	Dr.K.Hariharan	Autodesk fusion 360	FDP	Dr.Mcet	26.08.2022-27.08.022
		Remote control and monitoring of 3d printer	Webinar	National institute of electronics and information technology	29.11.2022
		Rapid manufacturing	FDP & Online	NPTEL	JUL TO OCT 2022
6	Mr.K.Vijaykannan	Autodesk fusion 360	FDP	Dr.Mcet	26.08.2022-27.08.2022
		Rapid manufacturing	FDP & Online	NPTEL	JUL TO OCT 2022
7	Mr.Sreejith.S.Nair	National intellectual property awareness mission	Training program	Intellectual property office	03.08.2022
		Welding application technology	Online course	NPTEL	Jul –SEP 2022
		The joy of computing using python	Online course	NPTEL	JUL-OCT 2022
		IEEE Explorer	Webinar	Dr.MCET	09.12.2022

8	Mr.M.Gideon Ganesh	Design and development of 3D printing machines for manufacturing the engineering products	FDP	Indian institute of information and technology tiruchripalli	25.07.2022 – 31.07.2022
		Simulation software- roboanalyzer and roboDK	Training program	PSG coimbatore	22.09.2022
		Metal additive manufacturing	FDP & online course	NPTEL	JUL – OCT 2022
9	Mr.M.Arun	Introduction to industry 4.0 and internet of things	FDP & online course	NPTEL	JUL – OCT 2022
10	Mr.R.bharathi raja	Thermal processing of foods	FDP & online course	NPTEL	JUL – OCT 2022

11	Mr.K.Sasikumar	NITTT- Module 5 & 6	Online course	NITTT	May- july 2022
12	Mr.S.Naveen kumar				
13	Mr.S.V.Gurupranes				

consultancy

Name of the faculty	Designation	Title of the Consultancy Work	Name of the organization / Firm/ Company	Amount	Period of Consultancy
Dr.T.Ramkumar	AP(SS)/MECH	L &T Defence - QAQC Advanced Module for Apprentices	L&T Defence, Malumichampatti, Coimbatore	₹72,250	6.10.22- 12.10.22 07.11.22- 12.11.22
Mr.K.Prabhu	AP/MECH				
Mr.S.Naveen kumar	AP/MECH				
Mr.K.Sasikumar	AP/MECH				
Mr.S.V.Gurupranes	AP/MECH				

MCET MILESTONES

