

Department of
Mechanical Engineering

NEWSLETTER

2021-22

VOLUME - II

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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: B.E. Mechanical Engineering Programme Educational Objectives (PEOs) - Regulation 2019

B.E. Mechanical Engineering 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.

Program Outcomes (POs) - Regulations 2019

On successful completion of B.E. Mechanical Engineering program, graduating students/graduates will be able to:

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

On successful completion of B.E. Mechanical Engineering program graduating students/graduates will be able to:

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.



MOET **DR. MAHALINGAM**
COLLEGE OF ENGINEERING AND TECHNOLOGY
Udumalai Road, Pollachi, Coimbatore District 642003

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

Arutcheivar
Dr. N. Mahalingam
Founder Chairman | SAKTHI GROUP

Department of Mechanical Engineering

Meeting was arranged through MS Teams for III year mechanical Students parents to be held on 06.02.2022 from 10.30 AM to 11.30 AM.



We cordially invite Parent's of Third year Mechanical Engineering students

AGENDA

- Welcome address : Dr.Rama Thirumurugan, Professor / Mech.
- Context setting : Dr.I.Rajendran, HoD / Mech.
- Placement activities : Dr.S.Ayyappan, ASP / Mech.
- Training activities : Dr. Madhusudhanan, AP (SS) /Mech.
- Vote of thanks : Dr.R.Gnanaguru, ASP / Mech.

MS Teams link : <https://bit.ly/3Hr2xNh>



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Dr. N. Mahalingam
Founder Chairman | SAKTHI GROUP

Department of Mechanical Engineering

Meeting was arranged through MS Teams for III year mechanical Students parents to be held on 06.02.2022 from 11.30 AM to 12.30 PM.



We cordially invite Parent's of **Second Year** Mechanical Engineering Students

AGENDA

- Welcome address : Dr.Rama Thirumurugan, Professor/Mech.
- Context setting : Dr.I.Rajendran, HoD/Mech.
- Placement activities : Dr.S.Ayyappan, Associate Professor/Mech.
- Vote of thanks : Mr.M.Padmanaban, AP/Mech.

MS Teams Link: <https://bit.ly/3GvI6ym>

For First Year MECHANICAL A & B Sections and 1st year AUTOMOBILE Engineering, Class committee Meeting was held on 08.02.2022, Time 10.00 am to 11.00 am, at A 314.



PLM Train the trainer's program meeting conducted by M/s Capegemini were attended by Dr.Rama.Thirumurugan, Dr.R.Gnanaguru, Dr.Madhusudhanan and Mr.Sasikumar along with HOD on 11.02.2022 from 9.15 to 10.30 AM to discuss about the PLM course.

PLM Session : PLM Introduction | Developing strategy | Conducting Assessment

11:32

Recording and transcription have started. By attending this meeting, you consent to being included. [Privacy policy](#)

Participants

Type a name

Share invite

In this meeting (28)

Mute all

Need for Product Development Strategy

Increased demands on product development

- Support customers located worldwide
- Work with globally distributed manufacturing locations
- Coordinate across multiple product development locations worldwide

Increasing Regulations:

- FDA Compliance
 - 21 CFR Part 11
 - 21 CFR 820
- Material Compliance RoHS / REACH / WEEE
- Food & Beverage Standards
- ISO 15926 for Handover Management in O&G
- ITAR / European Export Regulations
- SPICE Compliance for Auto & Medical

...without limited budget or headcount

Mani, Ananthakumar

Participants list:

- rtm
- Bawari, Ritesh Dutt (External)
- Bopanna (Guest) (Meeting guest)
- BT, Raghavendra (External)
- Deepak, Prabhakar (External)
- Esopthairan, Arunkumar (External)
- Gnanaguru R
- MADHAVAN (Guest) (Meeting guest)
- MADHAVAN (Guest) (Meeting guest)
- madhu@dmccet.ac.in
- Mahendran M
- Mani, Ananthakumar

MCET-FANUC center organized an online webinar on Factory Automation and Robots on 18.02.22 (Friday) from 2.00 PM to 3.00 PM

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Department of Mechanical Engineering

**MCET - FANUC Centre for Advanced Manufacturing and Robotics
&
FANUC India Pvt. Ltd., Bangalore**

Organize a Webinar on

“Factory Automation and Robots”

Delivered by

R.RAMESHBABU

Manager- FANUC India Academy

FANUC India Private limited, Bangalore.

on

18th February 2022 (Friday)

Time: 2.00pm to 3.00pm

Platform: Microsoft Teams



Meeting Link:
<https://bit.ly/3sNNuqC>



Organizing team:
•Mr.M.Padmanaban, AP/Mech.
•Mr.M.Gideon Ganesh, AP/Mech.
•Mr.K.Sasikumar, AP/Mech.

98422 21292, 99429 55540

 www.mcet.in

 Counselling code:2706

FANUC INDIA | **FANUC**

FANUC for Academic

- i. Corporate Details and Video
- ii. Brief on Industry and Opportunities
- iii. Factory Automation Products for Institutions
 - a. CNC
 - b. Robot with Applications
 - c. Robo Machines – RD, RC, RS
- iv. FIL Academy CoE & Joint Certification Programs

AGENDA

Press Ctrl+Shift+M to unmute your microphone.

LEAVE KEEP YOUR PHONE IN SILENT MODE

FANUC – FA & ROBOT & RM 2/34



Association (Mechanical Department Association) along with ISTE, organised a webinar on “Introduction to MBSE and MBPLE” on 24-02-2022 from 12.30 PM to 1.45 PM for Core stream final year and Pre final year UG students.



DEPARTMENT OF MECHANICAL ENGINEERING

MECHANICA 2021-2022

(Association of Mechanical Engineering)

In Association with

Indian Society for Technical Education

MCET-ISTE Student's Chapter (TN 87)

Organises a webinar on

“Introduction to MBSE and MBPLE”



Resource person:

Raphael Henrique MADEIRA,
MBSE & MBPLE Technical Leader,
Airbus Commercial, Germany

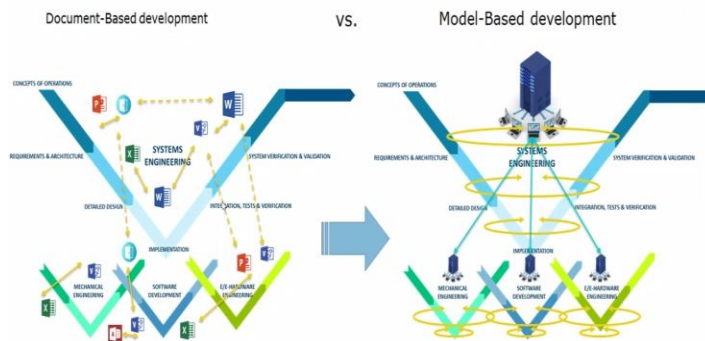
Date : 24.02.2022
 Time : 12.30 to 01.45 PM

Meeting Link: <https://bit.ly/3H7FJKM>

Patron Dr. A.Rathinavelu Principal- MCET	Convener Dr. I.Rajendran, HoD, Mech	Coordinator Dr. N.Vinayaga Muruga Pandy Mr. S.Gnanakumar
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Maintaining consistency across discipline borders is a key challenge for engineering departments - We are not replacing legacy tools - we are connecting them

CPG faculty Ms. Sundarakamalam, gave lecture on employability skills-2 for third year Mechanical students in the Electrical seminar hall from 2.00 to 4.00 PM on 03.03.2022



Outreach program on Protosem course was conducted by Forge Academy from 02.00 -3.30 PM on 07.03.2022 for III year Mechanical Engineering students



Capgemini Engineering India inaugurated Product Life Cycle (PLM) and Model Based Systems Engineering (MBSE) Technology laboratories at MCET on 09.03.2022. Dr.M.Manickam, Chairman, MCET, & Mr.Rangaraj Saravanakumar, Senior Director, Capgemini inaugurated the labs. Dr.C.Ramasamy, Secretary, Dr.A.Rathinavelu, Principal MCET, HoDs & Capgemini placed Mechanical, Automobile & Mechatronics students were part of the inauguration.



The Management, Secretary, Principal, Faculty Members, Staff and Students of
Dr.Mahalingam College of Engineering and Technology

Cordially invite you for the Inauguration of



**PLM Technology lab
&
MBSE Technology lab**

**at 11.00 am on Wednesday, the 9th March 2022 at
Arutchelvar Advanced Technology Center - Lab No. 516 & 518**

in presence of

Dr. M.Manickam
Chairman, MCET

Mr. Rangaraj Saravanakumar
Senior Director, Capgemini Engineering India

Mr. M.Hari Hara Sudhan
Correspondent, MCET
&
Capgemini Dignitaries



The following dignitaries visited the Janatics Centre of Excellence on 11.03.2022

R.Ramesh- Executive Director,

K. Ganapathy Subramaniam- Head-Applications & Training, Ashik.K.N.- Manager-
Education & Didactic Training,

S.Sunilkumar- Manager- Applications & Training, Aravind Ramachandran- Sr.Manager-
Didactics

Dr. P. Hariharan- Professor- Anna University



Date: 12-02-2022

The Students, Faculty and Staff members of Mechanical Engineering Department, MCET are congratulating **Mr.R.Branham** (2022 Batch Mechanical Engineering) for being selected as **Technical Officer** in **Indian Navy**.

We wish you a bright career in Indian Navy.



Distinguished Mechanical Alumni Testimony



KARTHIKEYAN SANTHANAKRISHNAN

B.E. Mechanical Engineering 2001-05 Batch
Operational Excellence Leader, Kalyn Siebert, Gatesville, Texas, United States

I have had a truly amazing learning experience in my life, and I would be much happy to say a great part of it happened here at MCET Campus in Pollachi. I came into the mechanical engineering program not knowing a thing about tech and real-world and felt like I left 4 years later with a ton of knowledge of how to think and solid confidence to face global challenges. The library, Labs, and the infrastructure at campus can only be appreciated after comparing

with other well-established universities. The personality development and campus recruitment program got me my first job, a huge steppingstone. There's something about the geography, the history, the neighbour hoods, the people, everything the college provided which is conducive to the immense success that I see with all my batch mates, seniors, and juniors alike. I will forever be grateful for my time at MCET, the faculty and students I met there, and the skills I acquired there that have helped me get to where I am today.

Date : 21-02-2022

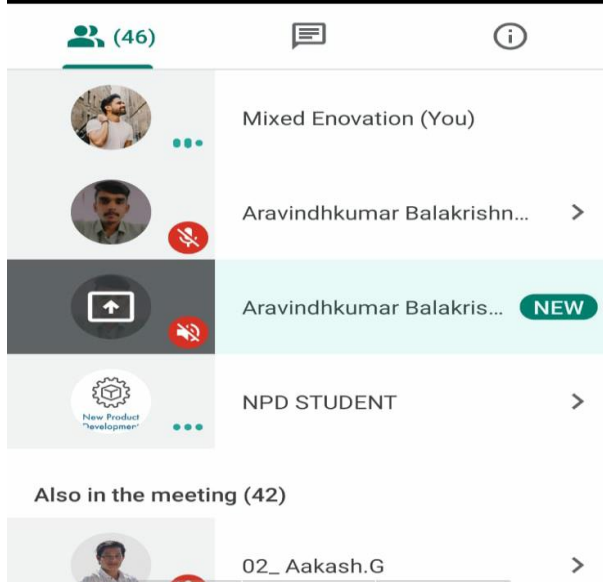
Congratulations to Mr.Dheenathayalan.R,our alumunus (First batch/B.E/Mechanical Engineering) for being a part of Vocational curriculum revision of Higher Secondary School Education (Class 11 and 12) workshop held on 20th and 21st January 2022 at DPI campus, Chennai. He participated as a key Stakeholder (Resource person - Industry Expert) in the Automobile Domain. His experience includes Ashok Leyland Limited, Pricol Limited, Amtek Castings India Limited. By coincidence our alumnus Mr.K.NanthaKumar, IAS (First batch/B.E/ECE) is the Commissioner of School Education, Tamil Nadu now. Dr. MCET is proud of it.



Mr. DHEENADAYALAN R
Manager, Co-ordinator/Trainer @ Zri Enterprises,
Hosur.

Date :22-02-2022

1. III -yr Mechanical Engg A section Students Antrose Christopher A, Aravindhkumar B, Muralitharan GS participated & presented an idea titled ""Fabrication & study on Mechanical properties of natural fiber reinforced Composite with bio fillers for light duty applications". In IDEATHON-2022 organized by Bannari Amman Institute of Technology held on 22.02.2022.



Date: 25-02-2022

Distinguished Mechanical Alumni Testimony



BALAMURUGAN R

B.E. Mechanical Engineering 2001-05 Batch
PLM Solution Architect, Siemens Digital Industries Software, Denmark

Hi all, I am Balamurugan Rajamanickam working in Siemens Digital Industries software, Denmark as PLM Solution Architect. I am proud to say that I completed my Under Graduation in Mechanical Engg from Dr.Mahalingam Engineering College in 2005. When we were studying, we were encouraged to take CAD/CAM Courses which was hot job in the field.

Though I started my work in Product Lifecycle Management which comes under IT Sector, the basics what I learnt like Bill of Materials, Viz, Mechanical CAD, Simulation Management in Under Grad Degree was lot helpful in adopting myself in PLM Industry for last 15 Years. It also gave a leading edge to work in different industries like Aviation, Marine, Locomotive, and Industrial Machinery

Last year (2020) I visited my college to conduct a workshop on PLM for Final Year Students. I was impressed with the infrastructure built in college to train students in PLM and Team center by partnering with SIEMENS Centre for Digital Manufacturing and Professors are very much interested in improving the curriculum.

So, if you are looking for a Mechanical Engineering Degree with latest skill set in industries, then consider MCET as one of the best colleges in Tamil Nadu

Thank you all.

Date 28-02-2022

Distinguished Mechanical Alumni Testimony



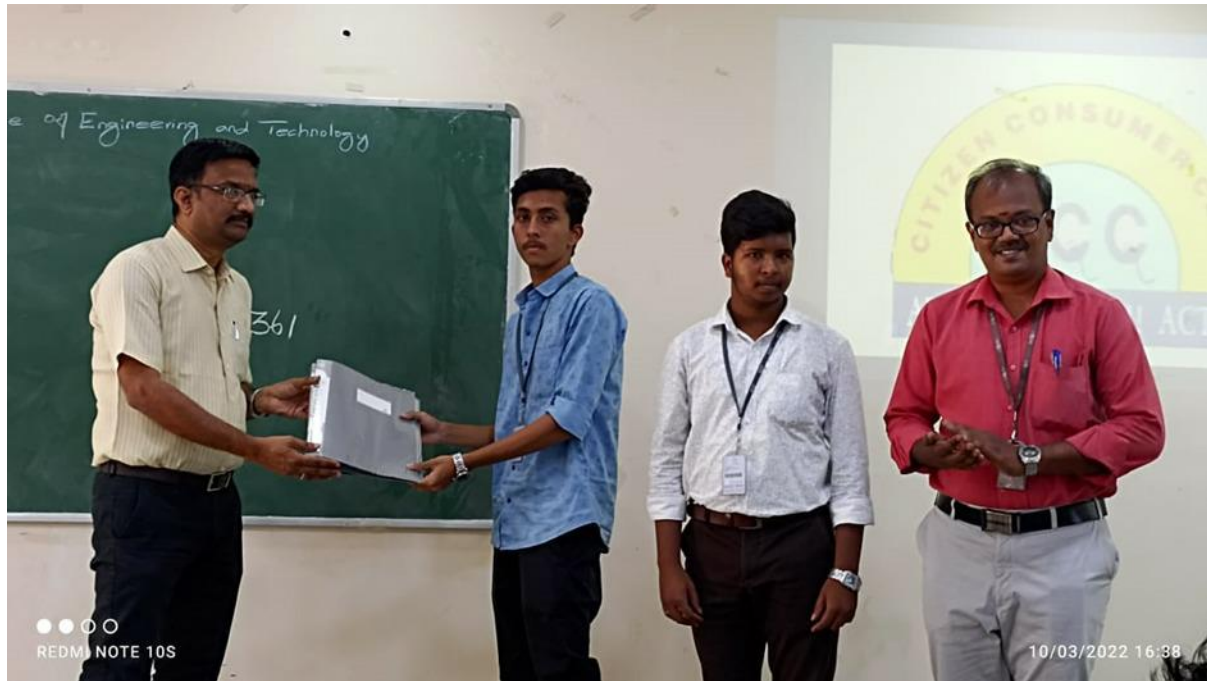
Dr. K. RAJASEKAR

B.E. Mechanical Engineering 2001-05 Batch

Head of R&D Department, BEML Limited (Under Ministry of Defence), Palakkad.

When I joined in Dr. MCET with the background of Tamil medium study, they made me more comfortable by providing evening classes to develop communication skills. As I know Dr. MCET is the college which imparts education as per the need of present and future competitive world. The bundle of experienced faculty and placement team make us to realize our potential and bring best on us. More emphasis is given on overall development includes Industrial visits, Guest lectures, Communication and personality development classes. Frequently Industrial experts were called to discuss and create awareness among the student community about the current developments and industrial expectations. Exposure were given to explore the various job and research opportunities across the globe. The infrastructure of the college is excellent and it will be updated continuously. The library is well equipped with all types of books and Journals. Digital library with 24 hours uninterrupted internet facility offered at that time is really commendable. The vision of Arutchelvar Dr. Mahalingam has been realized by the collective effort of the management and faculty. I extend my sincere thanks and wish everyone who contributed to keep our college on high. My special thanks to Dr. C. Ramasamy, Secretary, NIA Educational Trust for his rest less work and inspiring us by being a role model".

Mr.S.Naresh III Year A Section and Mr.S.Vidyadar, III year B section, Mechanical department obtained second place in "Find and connect " event organised by Citizen Consumer club on 10-03-2022



MECHANICA 2021-2022
(Association of Mechanical Engineering)
In Association with
MCET-ED cell & Centre for Innovation Business Incubation and Entrepreneurship
Organises
EDII-TN-ED Cell AURCC Supported
Webinar on” Process of of Innovation Development & Technology Readiness
Level”



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DEPARTMENT OF MECHANICAL ENGINEERING
MECHANICA 2021-2022
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Development & Technology Readiness
Level”

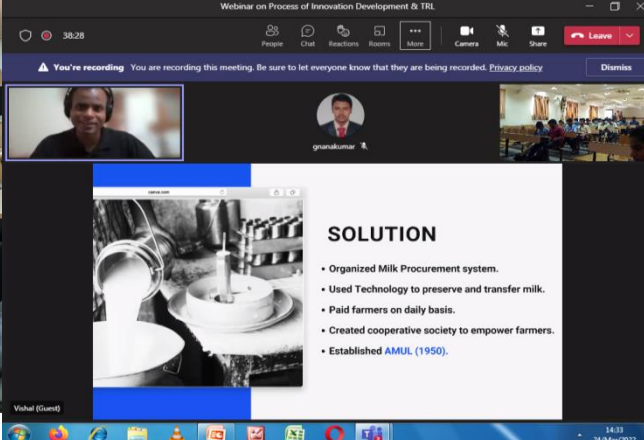
Resource Person



Date : 24.03.2022
Time : 2.00 PM to 3:30 PM
Venue: Mechanical Seminar
Hall

Mr.Vishal Nair
Co Founder & Director,
LightNSalt Pvt. Ltd., Palakkad.

Patron Dr. A.Rathinavelu Principal- MCET	Convener Dr. I.Rajendran, HoD/Mech	Coordinator Dr.D.Nathan Dr. N.Vinayaga Muruga Pandey Mr. S.Gnanakumar
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Webinar on Process of Innovation Development & TRL

30:28

People Chat Reactions Rooms More Camera Mic Share Leave

You're recording You are recording this meeting. Be sure to let everyone know that they are being recorded. Privacy policy Dismiss

gnanakumar

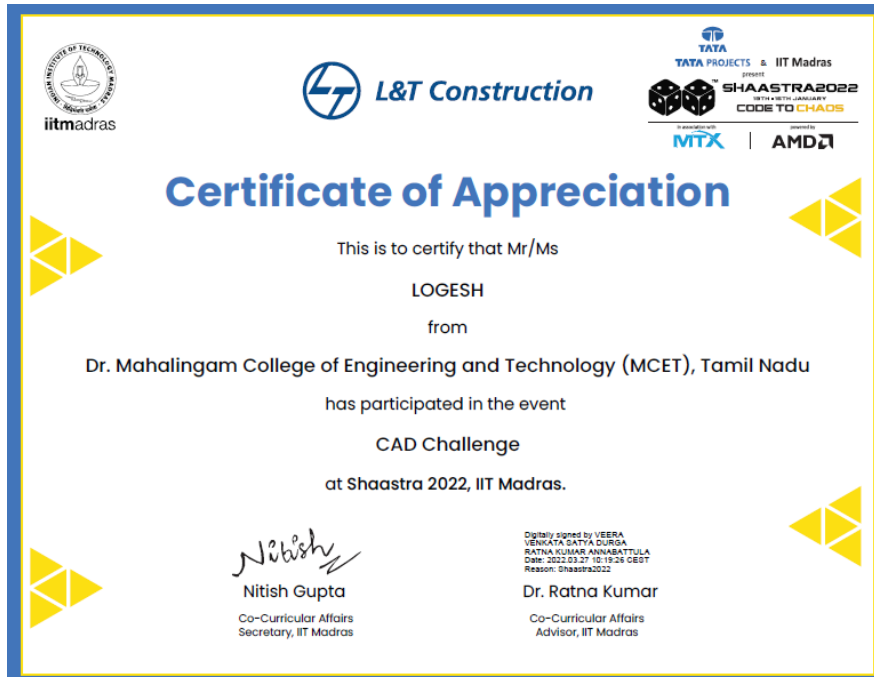
SOLUTION

- Organized Milk Procurement system.
- Used Technology to preserve and transfer milk.
- Paid farmers on daily basis.
- Created cooperative society to empower farmers.
- Established AMUL (1950).

Vishal (Guest)

14:33 24/Mar/2022

Logesh C and Pratheeswaran H , III Year Mechanical participated in CAD Challenge conducted at shaastra 2022 , IIT Madras in January 13-16 2022.



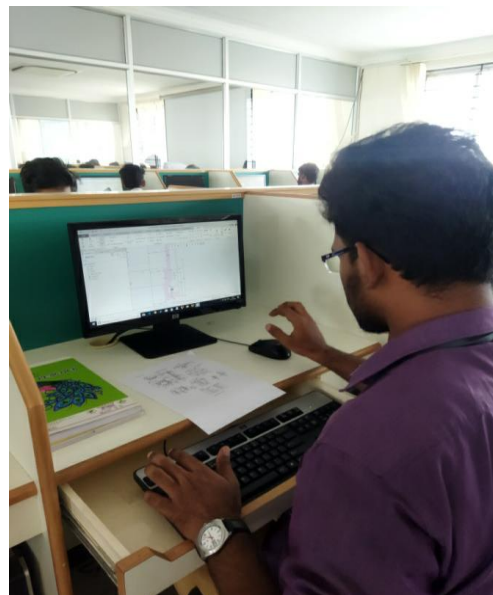
Capgemini Training for final year CG selected students conducted by Mr.Saravanakumar, Centre Manager, Siemens, from 04-04-2022 to 13-04-2022



1. Our 2020 passed out Mechanical student Mohanapriya, preparing for RTO Exam interacting with our 1st and 2nd year Mechanical girl students on 04.04.2022 at 11-12 PM



“Mechanica” Association of Mechanical Engineering and ISTE Students chapter organised a CAD Modelling contest for III year Mechanical Engineering students at DJB 519 on 07.04.2022.



Mr.K.Vijayakkannan and Mr.S.Gnanakumar, Assistant Professors, Mechanical Engineering Department has participated in the Five days Faculty Development Programme on “Automation and Smart Manufacturing” from 25 to 29 April 2022 at Department of Manufacturing Engineering, College of Engineering Guindy, Anna University, Chennai.



Students of I Mech + Auto B went for an Industrial Visit to Sakthi Soyas, Pollachi on 01.06.2022



III Year Mechanical Engineering Students have gone for Industrial Visit at EKKI Pumps, Ganapathy, Coimbatore on 01.06.2022



Student's Association of Mechanical Engineering "Mechanica" have conducted the valedictory function on 16.06.2022 for Accademic Year 2021-2022.

Mr. Karthik Shankar (Alumini 1998-2002 Mechanical Batch), Structures Safety and Airworthiness Engineer, Boeing Commercial Airplanes, USA was the chief guest for the function and addressed the Mechanical Students.



Third year Mechanical A Section Students and two Faculties have gone for a Industrial Visit in Mettur Thermal Power Station – Unit I on June 14,2022.

