



# MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

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Accredited by NBA & NAAC 'A' Grade

Kalitheerthalkuppam, Puducherry - 605107

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## DEPARTMENT OF MECHANICAL ENGINEERING

### NEWSLETTER 2022-23 (EVEN SEM)

#### DEPARTMENT ACTIVITY

##### WORLD ENGINEERS DAY



A Guest lecture for World Engineer's day was conducted by the Department of Mechanical Engineering in association with Institution of Engineers India (IEI) Mechanical Engineering Students Chapter, Puducherry on **15<sup>th</sup> september 2023** by **Er.K.RAJAKUMARAN** , B.Tech, Business development manager from Chennai on the theme of "Engineering a resilient future : Building Stronger,Smarter,Safer" Innovation for a more resilient World.

##### WORLD ENVIRONMENTDAY

16/09/23 On account of world Environment day – Department of Mechanical Engineering has organized Drawing competition at Puducherry schools in association with IEI Puducherry state centre and 50

school students were participated in this event.



##### WORLD STANDARDS DAY

##### Special Lecture



**WORLD STANDARDS DAY PROGRAMME** was conducted in association with Institution of Engineers India (IEI) Mechanical Engineering Students Chapter, Puducherry on **26<sup>th</sup> October 2023** by **Er.B.CHAYESH** QualityExecutive, TVS-Sundram Fasteners Limited, Mandagapattu from Villupuram Dt on theme "Shared

Vision for a Better World - Standards for Sustainable Development Goals”

Dr. B Radjaram, Head of the department (Mechanical Engineering) & Chairman of the Institutions of Engineers (India)- Puducherry state centre honoured & introduced the chief guest, **Er.B.CHAYESH** QualityExecutive, TVS-Sundram Fasteners Limited, Mandagapattu from Villupuram Dt . The chief guest addressed the students on theme Shared Vision for a better world with sustainable development goals to spread awareness about the significance of standardization in the global economy among regulators, consumers, and industries to achieving the sustainable development goals.

### WORLD HABITAT DAY

#### Special Lecture



**WORLD HABITAT DAY PROGRAMME** was conducted in association with Institution of Engineers India (IEI) Mechanical Engineering Students Chapter, Puducherry on **27<sup>th</sup> October 2023** by **Er. R.GNANASEGARAN**, Mentor-Startups-Atal Incubation Centre-PTU, Founder & CEO-Pudhuvai Green Gas Chemicals & Fertilisers Pvt Ltd, Puducherry on theme “Resilient urban economies. Cities as drivers of growth and recovery” Dr. B Radjaram, Head of the department (Mechanical Engineering) & Chairman of the Institutions of Engineers (India)-Puducherry state centre honoured & introduced the chief guest, by **Er. R.GNANASEGARAN**, Mentor-

Startups- Atal Incubation Centre-PTU, Founder & CEO- Pudhuvai Green Gas Chemicals & Fertilisers Pvt Ltd, Puducherry. The chief guest addressed the students on theme “Resilient urban economies. Cities as drivers of growth and recovery”

### INDUSTRIAL VISIT

IV year Mechanical students had gone for Industrial visit on **12.10.2023** to SEA BLUE ship yard, Kochi.



### BEST STUDENT CHAPTER AWARD (IEI)



**Best Student Chapter Award distribution**  
**held on 29-09-2023**

56<sup>th</sup> Engineers Day was celebrated in Puducherry by the IEI Puducherry State Centre on the occasion of the birth anniversary of Bharat Ratna Dr.M. Visvesvaraya.

Dr. B. Rajaram, President of the IEI Puducherry State Centre, greeted all members of the IEI Puducherry State Centre. Mr. G.C.Chokkanathan, Plant Manager, FOSECO India Ltd. Mettupalayam, Pondicherry, was invited as the event's chief guest.

On behalf of the IEI Puducherry State Centre, Life time Achievement Award, Best Woman Engineer Awards and Best Student Chapter Awards were presented at the ceremony.

Mr. Abdul Hadi and Mr. Sai Vaidyanathan received the Lifetime Achievement Award for their outstanding contributions to the engineering industry. Dr. Himavati, Professor, Department of Electronics & Communication Engineering, Puducherry Technological University, as well as Engineer Jenny Sara Jacob, received the Best Woman Engineer Award. A special award was also awarded to Sri Manakkula Vinayagar Engineering Engineering College for hosting the South Indian Student Conclave of Institution Engineers.

Department of Mechanical Engineering, Manakula Vinayagar Institute of Technology was selected as the best student Chapter (IEI Best Student Chapter Award) for the year 2022-23 and announced at the ceremony. The Principal of the college Dr. S. Malarkkan received the award on behalf of the college and address the gathering. He was accompanied by the Head of Department of Mechanical Engineering, Assistant professors and students who received the award.

Dr. S. Thirougnaname, Honorary Secretary, IEI Puducherry State Center, gave a vote of thanks to all. The arrangements for the function were done by the Committee members of IEI Puducherry State Center

### WORKSHOP COURSE

1. **Mr.A.Thiagarajan, Mr. R. Ilandjezhian, Dr. A Mathiarasu.and Dr P. Natarajan**, has attended a work

shop on Nuclear technology for the society organized by IGCAR , Kalpakkam on 17.08.2022.

2. **Dr. P. Natarajan** has attended a work shop on Patent drafting ,Copyright Protection organized by MVIT , on 12.01.2023.

3. **Mr.A.Thiagarajan** has attended a work shop on Sustainable HVAC & Architecture By ISHRAE CHAPTER ,on 17.12.2022

4. **Mr.B.Vasanth, Mr.A.Thiagarajan** has attended 5 days work shop on Ansys Multiphysics Event at NIT ,Karaikal from 12.06.23 -16.06.23

5. **Mr.B.Vasanth, Mr.A.Thiagarajan** has attended 14 days work shop on Advanced Research Methodology, SRM, Chennai from 03.07.23-18.07.23

6. **Mrs.G.Deeba**, has **organised** 4 days workshop on **ADVANCED TRAINING ON INDUSTRIAL PNEUMATICS, SMC, COPORATION, CHENNAI** from 25.08.23- 26.08.23 and 28.8.23 - 29.8.23

### FDP COURSE

1. Dr.P.Sivasankaran has attended 21 days online FDP programme on Online Teaching Platform and Tools (Technology Management In Education, organized by Scroll Well from 25.11.2022 to 15.12.2022

2. Dr.P. Natarajan has attended FDP program on “Advanced Materials Processing and Characterization Methods “Organized by Department of Physics, National Institute of Technology, Puducherry from 26.12.22 to 30.12.22.

3. Dr.P.Sivasankaran, Dr.A.Mathiarasu,and Mr.R. Ilandjezhian has attended 5 days FDP program on “Research Opportunities in Additive manufacturing” Organized by SMVEC.

4. Dr.A.Mathiarasu, Mr.B.Vasanth has attended 14 days FDP program on “Advanced Research

Methodology” Organized by SRM University, Ramapuram campus, Chennai

5. Dr. P. Natarajan has attended 3 days FDP program “Quality in Teaching & Learning Skills” organized by MVIT from 03.07.23-05.07.23
6. Dr.A.Mathiarasu, Dr. P. Natarajan has attended 5 days FDP program on “Ansys Multiphysics” organized by NITPY from 12.06.23-16.06.23

### STAFF ACTIVITIES

### JOURNAL PUBLICATIONS

**Dr.A.Mathiarasu & Dr.B.Radjaram** Published a paper on “Experimental investigation on the performance characteristics and emissions of a CI engine fuelled with enhanced microwave-assisted Karanja seed bio-oil” *Environmental Science and Pollution Research-Springer(SCI)*.

**Dr.P.Sivasankaran** “Physical Challenges in Assembly Line Production Systems from Ergonomics Point of View”–*Journal of Industrial Mechanics* 8 (2), 1-20

**Dr.P.Sivasankaran** “Quality Concepts In Product Design – Survey”, *Acta Tecnológica –International Scientific Journal About Technologies (J Gate ,*



**Dr.P.Sivasankaran, Mr.S.Senthil Kumaran & Dr.P.Natarajan** Published a paper titled “Importance of Quality Concepts in Education Industry in the Current Trend – Review”,

*International Journal of Engineering and Management Research, Vol 12, Issue 6, 2023.*

**Dr.P.Sivasankaran** Published a paper titled “Additive Manufacturing Concepts for Automotive parts and its Extensions – Review”, *Metszet Journal UGC CARE Scopus,2023*

**Dr.P.Sivasankaran** Published a paper titled “Mathematical modelling of process planning problem” *Acta Tecnológica* 9(1):13-17, March 2023.

**Mr.S.Ganesh Kumar**, Published a paper titled on “Studies on the morphology, tensile and tear attributes of ethylene propylene Diene monomer rubber nano composites reinforced with amine functionalized graphene nano platelets”

**Dr.A.Mathiarasu** , published a paper on “Experimental investigation on the performance characteristics and emissions of a CI engine fueled with enhanced microwave-assisted Karanja seed bio-oil. *Environmental Science and Pollution Research International*”.

### CONFERENCE

**Dr. P. Natarajan** has presented paper in ENT 2023 (FIRST INTERNATIONAL INTERDISCIPLINARY conference on Energy, Nanotechnology and Internet of things) at NIT , Karaikal in the title of “A Sol Gel Synthesis of TiO<sub>2</sub> : SiO<sub>2</sub> Film for Solar Photovoltaic Application” February 2-4,2023.

**Dr. P. Natarajan** has attended 2<sup>nd</sup> International conference on recent and Advanced Composite Materials ( ICRACM- 2023 ) , February 22-24,2023, at SRM Kattangulathur, Chennai.