

# KAMARAJ

## COLLEGE OF ENGINEERING & TECHNOLOGY



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)  
(Approved by AICTE, New Delhi)

# Department of Mechanical Engineering

**HIGHLIGHTS OF THE  
DEPARTMENT FOR ACADEMIC  
YEAR 2024-2025**



### **HoD Message**

The Department of Mechanical Engineering started the UG programme in 2005. Mechanical Engineering is witnessing remarkable growth and opportunities especially recent advancements in materials, automation, and AI integration. From 3D printing and smart materials to renewable energy systems, these trends are shaping the future of Mechanical Engineering and opening doors to innovative solutions across various industries. The Department has highly qualified and experienced faculty members in different fields of specialization. The Department is accredited by the NBA, New Delhi. We are dedicated in preparing students to harness the vast potential of Mechanical Engineering, contributing to a sustainable and technology-driven world. Together, we aspire to shape a brighter future with our collective expertise and passion.



**Dr.S.Thanga Kasi Rajan**  
**Associate Professor and HOD**

# DEPARTMENT PROFILE

Program of Study	Description
Under Graduate B.E Mechanical Engineering	Started with Approved intake of 30 seats in 2005 FILE NO.: 730-52-311(E)/ET/98 dated 09.06.2005
	Intake increased to 60 seats in 2009 FILE NO.: 730-52-311(E)/ET/98 dated 11.07.2009
	Intake increased to 120 seats in 2013 FILE NO.: Southern/1-1402872972/2013/EOA dated 19.03.2013
	Intake reduced to 60 seats in 16.06.2021 FILE NO : Southern/1-9321338833/2021/EOA dated 10.07.2021
	Intake reduced to 30 seats in 02.01.2023 _FILE NO : Southern/1-36452806855/2023/EOA dated 02.01.2023.
Research Programmes	Department is Recognized as Research center of Anna University FILE NO : 4959/IR/Mechanical/AR2 Dated : 02.12.2020



# DEPARTMENT OF MECHANICAL ENGINEERING

## VISION, MISSION, PEO'S & PSO'S



### VISION

To make Department of Mechanical Engineering the unique of its kind in the field of Research and Development activities in the prominent field of Mechanical Engineering in this part of the world.

### MISSION

To impart highly Innovative and Technical Knowledge in the field of Mechanical Engineering to the urban and unreachable rural student folks, through "Total Quality Education".



### PROGRAM EDUCATIONAL OUTCOMES (PEO'S)

**PEO -1:** Graduates of the Programme will excel in Technical Knowledge and apply Innovative Skills in the field of Mechanical Engineering.

**PEO -2:** Graduates will contribute to Technological Development and Research Activities through "Total Quality Education".

**PEO-3:** Graduate of the Programme will accomplish Leadership Qualities and Social Responsibilities through "Life Long Learning".



### PROGRAM SPECIFIC OUTCOMES (PSO'S)

#### PSO -1:

Graduates will be able to create and analyze the Research and Development activities related to design and manufacturing.

#### PSO- 2:

Graduates will be able to design, develop need based products in Mechanical Engineering and allied Industries.



# DEPARTMENT MECHANICAL ENGINEERING

Accredited by

**National Board of Accreditation (NBA)**

NEW DELHI



**July 2023 – June 2026**

**July 2020 – June 2023**

**July 2017 – June 2020**



# **Department of Mechanical Engineering**

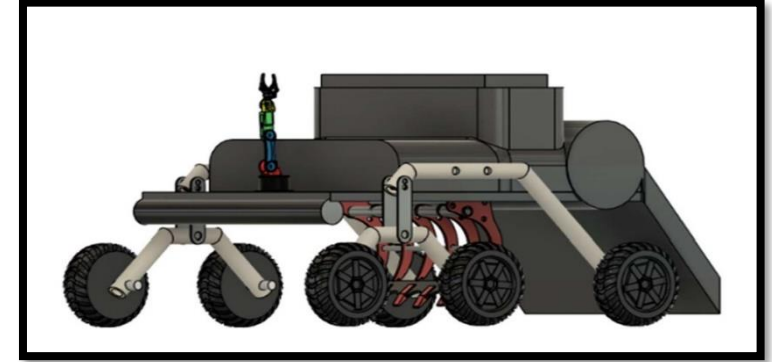
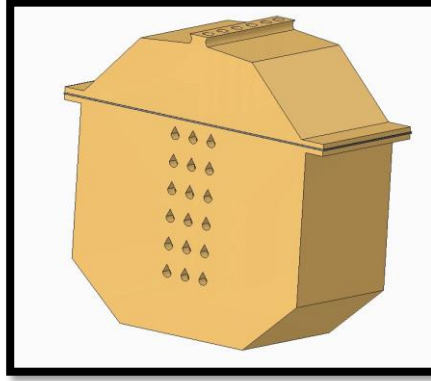
## **Achievements**



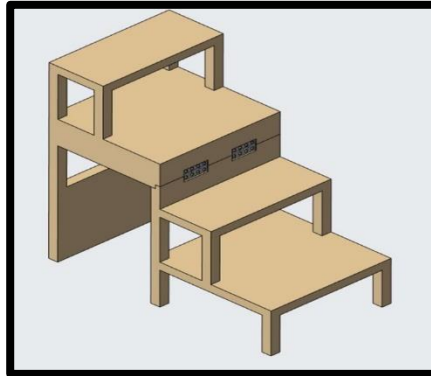
# Design Patent Granted

**\*10 Design Patent Granted During the Academic Year 2024-2025\***

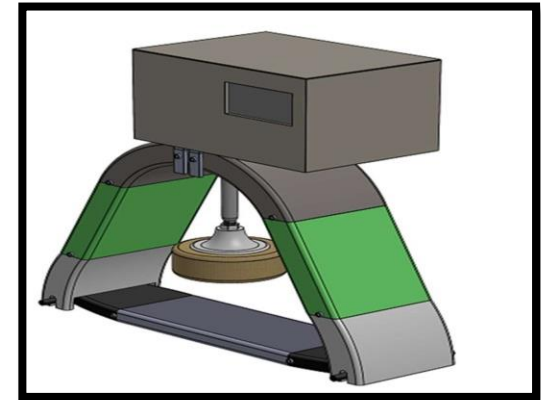
A Design patent titled “ Polygon shaped  
burring stand” (426068-001/ Date  
07/08/2024) was granted to  
Dr.M.Prithiviraj AP/Mech  
Dr.S.Senthil Prof/Mech



A Design patent titled “Potable Chair cum  
Ladder” (428054-001/ Date 23/08/2024)  
was granted to  
Dr.B.K.Parrthipan AP/Mech  
Dr. B.Balavairavan AP/Mech  
Dr.P.Narayansamy ASP/Mech  
Dr.S.Thangakasi rajan ASP&HoD /Mech  
Dr.S.Senthil Prof/Mech



A Design patent titled “ Agribot - Growing Smarter”  
(430824-001/ Date 18/09/2024) was granted to  
Dr.B.K.Parrthipan AP/Mech



A Design patent titled “ TYRE” (432140-  
001/ Date 28/09/2024) was granted to  
Dr.M.Prithiviraj AP/Mech  
Dr.S.Senthil Prof/Mech

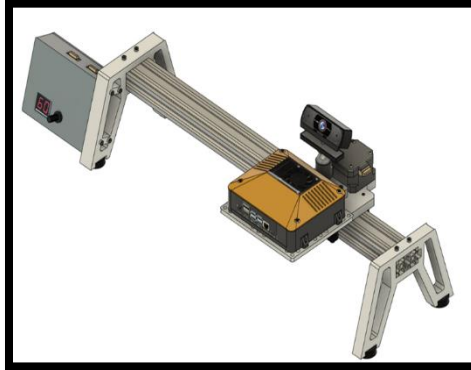


A Design patent titled “ CBR Device” (453137-001/  
Date 27/03/2025) was granted to  
Dr.B.K.Parrthipan AP/Mech

# Design Patent Granted

**\*10 Design Patent Granted During the Academic Year 2024-2025\***

A Design patent titled “Yarn Breakage Detection Device with Integrated Camera Slider” (439468-001/ Date 04/12/2024) was granted to Dr.R.Sakthivel Murugan AP/Mech



A Design patent titled “Four Wheel Electric Vehicle With Treadmill” (432343-001/ Date 30/09/2024) was granted to

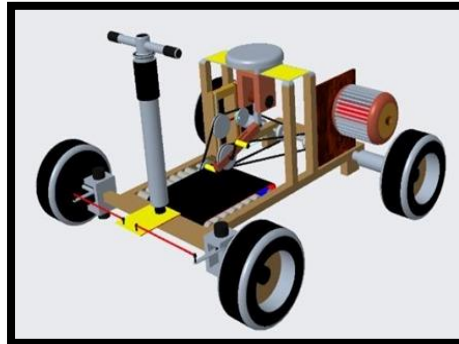
Dr.S.Thangakasi rajan ASP&HoD /Mech

Dr.B.K.Parrthipan AP/Mech

Dr.M.Murugananthan AP/Gen.Engg

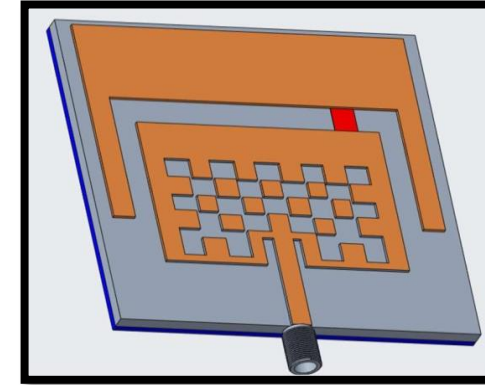
Dr.R.Sakthivel Murugan AP/Mech

Dr.S.Senthil Prof/Mech



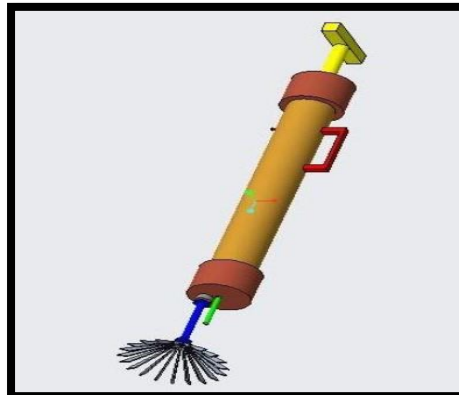
A Design patent titled “Micro strip Antenna ” (448815-001/ Date 21/02/2025) was granted to

Dr.B.K.Parrthipan AP/Mech



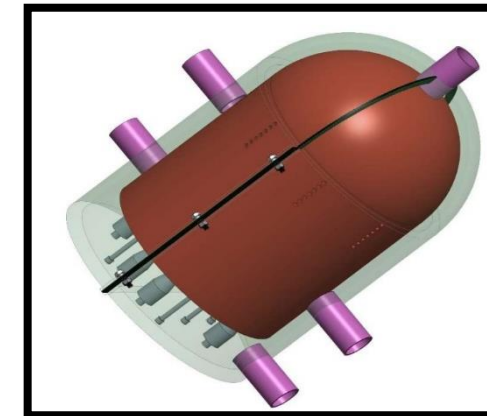
A Design patent titled “Toilet Cleaner” (435097-001/ Date 21/10/2024) was granted to

Dr.B.K.Parrthipan AP/Mech



A Design patent titled “ Anaerobic Digester” (446844-001/ Date 04/02/2025) was granted to

Dr.B.K.Parrthipan AP/Mech





# UTILITY PATENT GRANT AND PUBLISHED

**\*1 Utility Patent grant and 2 utility patent Published During the Academic Year 2024-2025\***



**Mr.R.Sakthivel murugan, Mr.N.R.Madhan, Dr.S.Senthil , Dr.S.Thangakasirajan Dr.B.Balavairavan Dr.B,K.Parrthipan Dr.P.Narayanasamy Dr.K.Murugananthan Mr.A.Sankaranarayanamurthy Dr.M.Pritivraj, Mr.D.Palanikumar, Dr.Muthunatarajan , Utility patent titled “Design and fabrication of Engineering Graphics Teaching Models through the integration of Design for interchangability and Design for Additive Manufacturing” (202541001295) on 31.01.2025.**

**Dr.B.Balavairavan Dr.B,K.Parrthipan Dr.S.Thangakasirajan Dr.P.Narayanasamy Published the Utility patent titled “IoT - Driven Robotic Arm for injecting Medication to Pet animals ” (202441080467) on 14.11.2024.**

**A Utility patent titled “Development of Basalt, Kevlar, Fabric , MWCNT, and Date Palm Filler Bio - Epoxy Composite for Aircraft Structures” (202341059455 / Dated 05.09.2023) was granted to Dr.P.Senthamarakannan AP/Mech**



COPY RIGHTS GRANTED

\*2 Copy rights Granted During the Academic Year 2024-2025\*

## A Copy rights titled “ Machine Vision Laboratory Manual for Mechatronics Engineers ”

( LD-20250165510 ,Dated 01.03.2025)  
was granted to  
Dr.M.Prithiviraj AP/Mech

## A Copy rights titled “Monograph of Kinematics of Machinery”

( L-154661/2024, Dated 27/09/2024)  
was granted to

Dr.B.K.Parrthipan AP/Mech

Dr. B.Balavairavan AP/Mech

Dr.P.Narayansamy ASP/Mech

Dr.S.Thangakasirajan ASP&HoD/Mech

Dr.S.Senthil Prof/Mech

Copyright Office, Government of India

प्रमाणपत्र सं. / Certificate No.: LD-20250165510

प्रतिलिप्यधिकार कार्यालय, भारत सरकार | Copyright Office, Government of India

प्रतिलिप्यधिकार प्रमाणपत्र | Copyright Certificate

प्रतिलिप्यधिकार विनियम 70 | Rule 70 of The Copyright Rules

प्रतिलिप्यधिकार रजिस्टर से उद्धरण | Extracts from the Register of Copyrights

आवेदन सं. / Application No.: 7017/2025-CO/L

दाखिल करने की तिथि / Date of Filing: 01/03/2025

यह प्रमाणित किया जाता है कि प्रतिलिप्यधिकार अधिनियम, 1957 के प्रावधानों के अनुसार, उपरोक्त आवेदन में प्रकट किए गए "Machine Vision Laboratory Manual For Mechatronics Engineers" नामक कार्य के लिए प्रतिलिप्यधिकार प्रदान किया गया है।

This is to certify that a copyright has been registered for the work titled "Machine Vision Laboratory Manual For Mechatronics Engineers" as disclosed in the below mentioned application in accordance with the provisions of the Copyright Act, 1957.

रचयिता / Authors:

सं. / SNO.	नाम / Name	पता / Address
1	Prithiviraj M	Vt Mani Nagar K Vellakulam-652701
2	K Kannan	S.P.G.C. Nagar Nagammal Campus Near Virudhunagar Madurai-625701
3	Wesley Moses Samdoss S	S.P.G.C. Nagar Nagammal Campus Near Virudhunagar Madurai-625701-652701

स्वामी / Owners:

सं. / SNO.	नाम / Name	पता / Address
1	Prithiviraj M	Vt Mani Nagar K Vellakulam-652701
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3	Wesley Moses Samdoss S	S.P.G.C. Nagar Nagammal Campus Near Virudhunagar Madurai-625701-652701

प्रकाशक विवरण / Publisher Details:

कार्य की भाषा / Language of the Work: English

कार्य का विवरण / Description of the Work: Laboratory Manual

(शर्त / टिप्पणियाँ, यदि कोई हो) / (Conditions/ Remarks, if any): N.A.

आर. ओ. सी. जारी होने की तिथि / Date of ROC: 27/05/2025

Registrar of Copyrights

Copyright Office, Government of India

Extracts from the Register of Copyrights

प्रमाणपत्र सं. / Certificate No.: L-154661/2024

प्रतिलिप्यधिकार कार्यालय, भारत सरकार | Copyright Office, Government of India

प्रतिलिप्यधिकार रजिस्टर से उद्धरण | Extracts from the Register of Copyrights

आवेदन सं. / Application No.: 7017/2025-CO/L

दाखिल करने की तिथि / Date of Filing: 01/03/2025

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3	Wesley Moses Samdoss S	S.P.G.C. Nagar Nagammal Campus Near Virudhunagar Madurai-625701-652701

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2	K Kannan	S.P.G.C. Nagar Nagammal Campus Near Virudhunagar Madurai-625701
3	Wesley Moses Samdoss S	S.P.G.C. Nagar Nagammal Campus Near Virudhunagar Madurai-625701-652701

प्रकाशक विवरण / Publisher Details:

कार्य की भाषा / Language of the Work: English

कार्य का विवरण / Description of the Work: Laboratory Manual

(शर्त / टिप्पणियाँ, यदि कोई हो) / (Conditions/ Remarks, if any): N.A.

आर. ओ. सी. जारी होने की तिथि / Date of ROC: 27/05/2025

Registrar of Copyrights



# FACULTY AWARDS/ACHIEVEMENTS



**Dr. B.K. Parrthipan AP/Mech**  
Honoured by Bharatha Rathna  
Kamaraj Educational Trust for  
the “Excellence in Education”



**Dr. B. Balavairavan AP/Mech and Mr. N. R. Madhan AP/Mech** completed the Short-Term Course on "Additive Manufacturing and Industry 4.0," organized by the Department of Production Technology, National Institute of Technology, Tiruchirappalli, from 02.12.2024 to 06.12.2024.



**Dr. M. Prithiviraj AP/ Mech** received Best paper award titled “MODE I FRACTURAL TOUGHNESS OF ALKALI TREATED SISAL FIBRES GLASS HYBRID EPOXY COMPOSITES WITH SILICA NANO PARTICLE” in the “International conference THE ROLE OF TECHNOLOGY AND MANAGEMENT IN FULLFILING THE SUSTAINABLE DEVELOPMENT” on 29.11.2024.

## FACULTY ACHIEVEMENTS – SEED MONEY GRAND

Dr.S.Thangakasirajan ASP &HoD /Mech,  
Dr.R.Sakthivel Murugan and  
Dr. K.Murugananthan AP/Mech received  
Faculty seed money grand of Rs.5,00,000/- for  
the Project titled “A novel way of developing  
the electric cycle with a thread mill” .  
Date of Sanction : 27.12.2024.

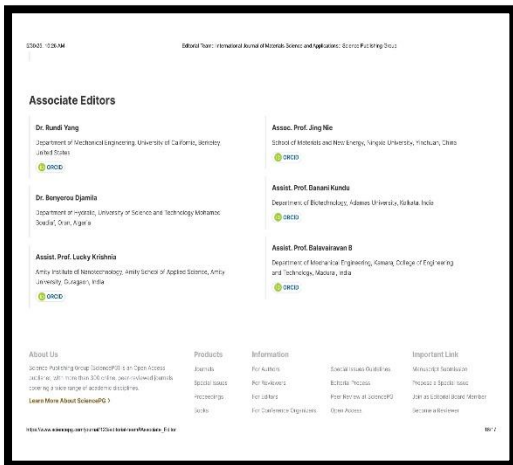
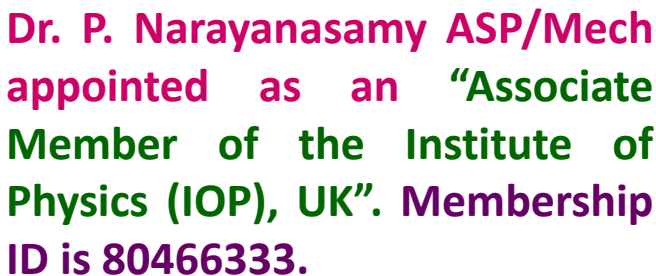
Dr. R.Sureshbabu HoD/ECE, Dr.S.Thangakasi  
rajan ASP &HoD /Mech and  
Mr.N.R.Madhan AP/Mech received Faculty  
seed money grand of Rs.5,00,000/- for the  
Project titled “ Surveillance Drone”. Date of  
Sanction : 27.12.2024.



Dr.R.Sakthivel AP/EEE, Dr.S.Thangakasirajan ASP  
&HoD /Mech, Dr.B.K.Parrthipan AP/Mech and  
Dr.B.Balavariavan AP/Mech received Faculty seed  
money grand of Rs.5,00,000/- for the Project  
titled “Solar – Powered Electric Vehicle with  
Dynamic Solar Panel Reconfiguration for Optimal  
Power Generation ”. Date of Sanction :  
27.12.2024.



## A portrait of a man with dark hair and a mustache, wearing a dark suit jacket, white shirt, and a dark tie with diagonal stripes. He is looking directly at the camera against a solid blue background.



<p><b>Prof. Pradyumn Kumar Vashistha</b> Department of Quality Assurance, Orient Ramrao Hindu Institute, Sahakar, India</p> <p><a href="#">e-mail</a></p>	<p><a href="#">e-mail</a></p>
<p><b>Assoc. Prof. Ravi Prakash Sharma</b> Department of Mechanical Engineering, Jssr Institute of Engineering, Jabalpur, India</p> <p><a href="#">e-mail</a></p>	<p><b>Assoc. Prof. Ashish Mishra</b> Department of Mechanical Engineering, Indian Institute of Technology, India</p> <p><a href="#">e-mail</a></p>
<p><b>Dr. Rajesh Kumar Malik</b> Department of Mechanical, Advanced Systems Laboratory, Hyderabad, India</p> <p><a href="#">e-mail</a></p>	<p><b>Assoc. Prof. Shivkumar Rajan R</b> Department of Mechanical Engineering, Anna University, Chennai, India</p> <p><a href="#">e-mail</a></p>
<p><b>Dr. Sandeep Thurai</b> Department of Mechanical Engineering, National Institute of Technology, Anna, India, India</p> <p><a href="#">e-mail</a></p>	<p><b>Dr. Elengkothe Mathur Raj</b> Department of Mechanical Engineering, The National Institute of Design, Gandhinagar, Bangalore, India</p> <p><a href="#">e-mail</a></p>

## Associate Editor

<p><b>Dr. Manu Sam</b> School of Civil and Mechanical Engineering, Curtin University, Perth, Australia</p> <p><a href="#">e-mail</a></p>
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Abstracted In	Indexing	Supplementation	
<p>Journal of Consulting Engineers (JCE) is an ISI/SCI indexed journal. JCE is also listed in ISI/SCS, CDS, CRI, and Engineering Index. JCE is also listed in ISI/SCS, CDS, CRI, and Engineering Index.</p>	<p>ISI/SCS Engineering Index CDS CRI Engineering Index</p>	<p>ISI/SCS Engineering Index CDS CRI Engineering Index</p>	<p>Engineering Index Engineering Index Engineering Index Engineering Index Engineering Index</p>

ScienceDirect  
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**Dr.S.Thangakasirajan ASP&HoD/Mech appointed as “Editorial Board member” for the Journal "Composite Materials", Science Publishing Group.**



**Dr.B.K.Parrthipan AP/Mech appointed as “Associate Editor” in journal of Advances in Materials (AM) Science publishing group Inc.**



# INTERNATIONAL CONFERENCE IN FOREIGN UNIVERSITY

Dr.B.Balavariavan AP/Mech, Dr.B.K.Parrthipan AP/Mech presented a paper titled “The Role of Natural fibers and Fillers 2000-2024” in the 2<sup>nd</sup> International Conference on “Sustainable Technologies , Energies and Materials organised by “ King Monkut's University of Technology, North Bangkok, Thailand “ on 21.02.2025.



Balavairavan B (Presenting, annotating)

### Natural Fibers/fillers for biofilms and their packaging applications

- Typical natural fibres and fillers include jute, hemp, coir, flax, sisal, cellulose, lignin, and starch. Fillers enhance mechanical and functional characteristics.
- These components improve the durability of biofilms, making them appropriate for packaging applications where protecting the environment is crucial.
- The incorporation of natural fibres into biofilms will enhance the mechanical characteristics of these materials by strengthening the polymer matrix. This strength is crucial in packaging applications as it must demonstrate sufficient tensile strength and resilience.
- Moreover, natural fillers such as cellulose can improve barrier characteristics against moisture and gases, hence prolonging the shelf life of packed product.
- Thermal stability and decomposition are the essential elements influencing biofilm efficacy in packaging.
- The use of natural fillers such as starch and lignin can regulate degradation rates and improve the thermal properties of biofilms.
- These materials facilitate accelerated biodegradation compared to entirely synthetic alternatives, hence reducing environmental waste.
- In addition to safeguarding items from physical and chemical damage, efficient packaging must control the transfer of water vapour, oxygen, and carbon dioxide to mitigate oxidation, microbial proliferation, and decomposition of food.
- Plastics are generally porous to gas molecules, rendering moisture barrier characteristics essential for food packaging.

1:48 PM | irr-idqc-noq



# SCHOLARS OF EMINENCE



**Dr. M. Kaliraj**  
**Public viva voce held at**  
**04.10.2024**  
**Supervisor Incharge**  
**Dr. S. Senthil**  
**Prof /Mech, KCET**  
**Supervisor**  
**Dr. P. Narayanasamy**  
**ASP/Mech , KCET**



**Dr.S.David Blessley**  
**Public Viva voce held**  
**at**  
**14.05.2025**  
**Supervisor**  
**Dr. P.Narayanasamy**  
**ASP/Mech, KCET**



**Dr.R.Sakthivel Murugan**  
**Public Viva voce held at**  
**24.03.2025**  
**Supervisor**  
**Dr. S. Vinoth**  
**Prof/Production**  
**Engineering , National**  
**Institute of Technology,**  
**Tiruchirappalli.**



# GUEST LECTURES DELIVERED BY FACULTY



Dr.S.Muthunatarajan AP/ Mech acted as Resources person for Guest lecture on “Forming of Metals” Online mode organized by Francis Xavier Engineering College , Tirunelveli, held on 18-10-2024.



Dr.B.K.Parrthipan AP/ Mech acted as Resources person for Guest lecture on “Engineering Mechanics” organized by, Department of Mechanical Engineering, Fatima Michael College of Engineering and Technology, Poovanthi on 23.10.2024.



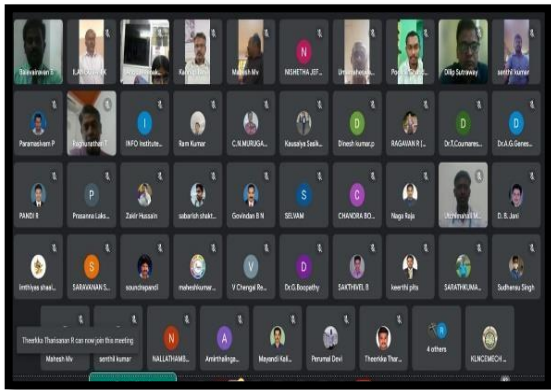
Dr. P. Narayanasamy ASP/ Mech acted as resource person and presented a topic "Recent trends in Thermal Spray Coatings" as part of the 5-day virtual International Faculty Development Program (FDP) on "Sustainability and Research in Modern Mechanical Engineering," organized by the Department of Mechanical Engineering, Madanapalle Institute of Technology & Science, on 24.09.2024.



Mr. R. Sakthivel Murugan AP/Mech Delivered a lecture titled “Prioritization and Deployment of DFAM methods to Automotive Component” through online in short term faculty development course on “Additive Manufacturing and Industry 4.0”, being organized by the Department of Production Engineering, NIT Tiruchirappalli on 05.12.2024.



# GUEST LECTURES DELIVERED BY FACULTY



**Dr. B. Balavairavan AP/ Mech delivered a guest Lecture on "Effective Utilization of Bio fillers and Their Effects on Packaging Biofilms" in online Faculty Development Program on "Techniques and Tools for Sustainable and Emerging Materials," organized KLN College of Engineering on 12.12.2024.**



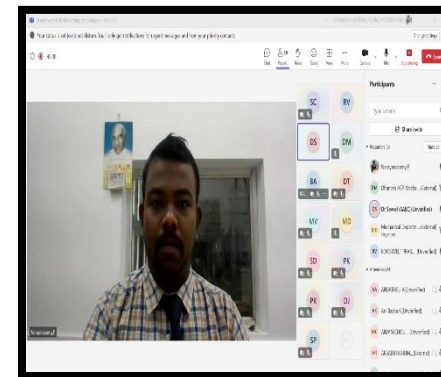
**Dr. B.K. Parrthipan AP/Mech acted as a resource person and delivered a guest lecture on the topic "Securing your innovation: IPR Applications and protection strategies" organized by Madurai Sivakasi Nadars Pioneer Meenakshi Women's College, Sivagangai. on 14.12.2024 .**



**Dr. K. Murugananthan AP/Mech Delivered Guest lecture on One day Seminar on "Interactive E-Tools for Novice Researchers: A Practical Approach" at P.S.R. ENGINEERING COLLEGE. Date: 27.12.2024.**



**Dr. P. Narayanasamy, ASP/Mech delivered a Guest lecture on "Research Publication and Ethics" during the Faculty Enrichment Programme organized by the IQAC, Vivekananda College, Madurai, on 06.01.2025.**



**Dr. P. Narayanasamy, ASP/Mech delivered a session on “3D printing of Smart Implants : Applications and Challenges “ as a part of 6- Day AICTE sponsored ATAL online FDP , Organized by S.A. Engineering College on 13.02.2025.**

# FACULTY INTERACTIONS



Dr. P. Narayanasamy ASP/Mech acted as BoS Member in the 13th BoS meeting at VHVSN Polytechnic College, Virudhunagar on 27.07.2024



Dr. S. Thangakasirajan ASP/ Mech visited the Vikram Sarabhai Space center and LPSC interacted with LPSC Director, Narayanan, ISRO, Trivandrum on 20.11.2024.



Dr. B.K. Parrthipan, AP/Mech along with EDC student members visited ATAL Community Innovation Centre (ACIC) - MEPCO Innovative Foundation, Mepco Schlenk Engineering College, Sivakasi on 23.08.2024.



Dr. M. Murugananthan AP/Mech attended the "Vision for a Better world: Achieving Industry Innovation, and Infrastructure through AI" program as part of the world Standards Day Celebrations on 14.10.2024 Organized by the Bureau of Indian Standards, Madurai.



Dr. P. Narayanasamy ASP/ Mech attended Madurai MSME Summit 2024 " organized by CII, on 17-10-2024.



Dr. P. Narayanasamy ASP/ Mech acted as Judge for "Innover 2K24" organized by Fatima Michael College of Engineering and Technology, Madurai held on 15-10-2024.



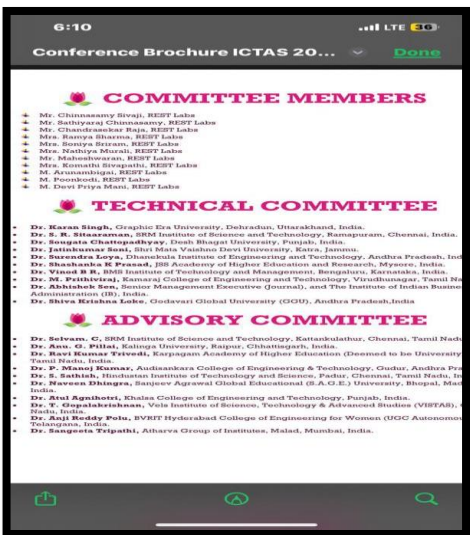
# FACULTY INTERACTIONS



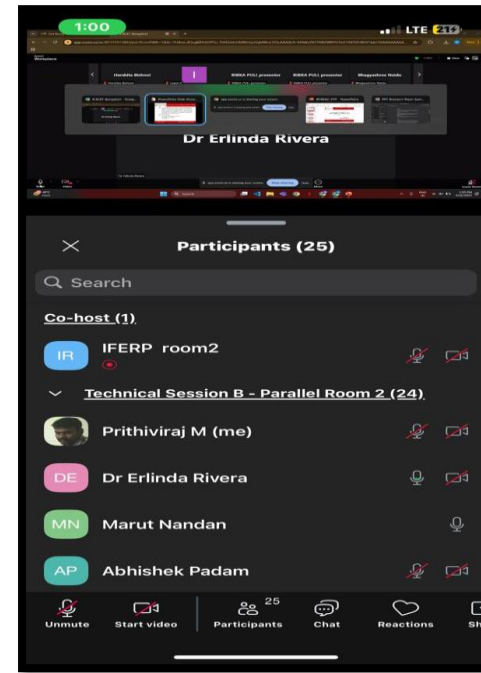
Dr. P. Narayanasamy ASP/Mech participated in a “One-Day Mentor Training Programme” organized by the “Entrepreneurship Development and Innovation Institute of Tamil Nadu (EDII-TN)” under the Government of Tamil Nadu, held at Virudhunagar Collectorate on 13.12.2024.



Dr. B. Balavairavan AP/ Mech visited “Nano Technology and Battery Fuel Cell laboratory” established in Sri kalieswari college of arts and Science , Sivakasi on 09.12.2024.



Dr. M. Prithiviraj AP/Mech, appointed as “Technical committee member” in the International Conference on Theoretical and applied Science Organized by Rest Labs & Rest Society for Research International on 27th – 28th June 2025.



Dr. M. Prithiviraj AP/Mech acted as “session chair for “14th International Conference on Recent Challenges” in Engineering and Technology (ICRCET-2025) organized by IFERP Academy, Bangalore on 26.05.2025.



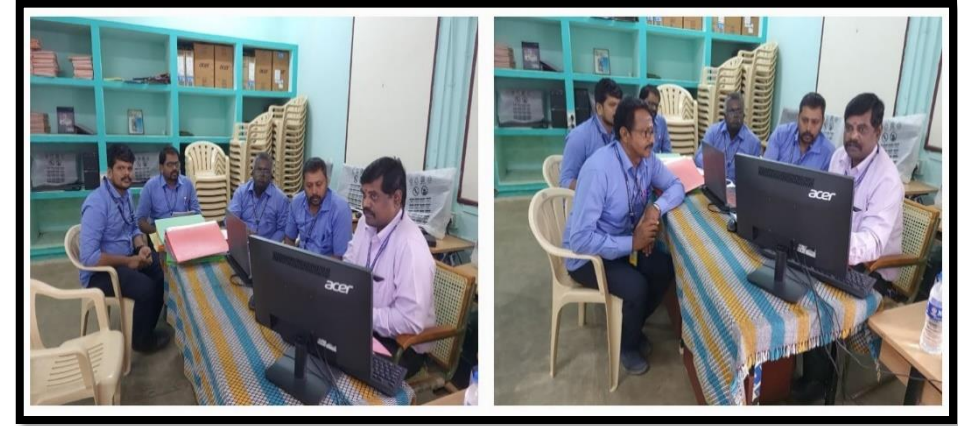
Dr.P.Narayanasamy ASP/Mech Acted as a keynote speaker at the 12th International Congress on Engineering and Technology Management in Istanbul, Turkey, and delivered a presentation titled "Tribological Behaviour of Magnesium Hybrid Composites." on 09.11.2024.

# FACULTY INTERACTIONS



Micro, Small and Medium Enterprises Development and Facilitation Office (Branch), Government of India, Ministry of MSME, Tirunelveli has organized 5 days Management Development Programme on Export Policies, Procedures and Documentation at Kamaraj College of Engineering and Technology, from 09.12.2024 to 13.12.2024 for the Entrepreneurs growth and development of Export.

Dr. V.Jeyaseelan IAS, District Collector, Virudhunagar District, has distributed MDP certificates to participants of the Programme. A total of 26 trainees had undergone the training and benefitted. Officials from MSME-DFO, Tirunelveli, DIC, Virudhunagar and Dr.S.Thangakasi rajan ASP&HoD /Mech and Dr.P.Narayansamy ASP/Mech have attended valedictory function.



Dr. S.Thangakasi rajan ASP&HoD /Mech Served as a “NBA Expert” for the Mock Audit at Sankar Polytechnic College, Tirunelveli on 17.03.2025.



Dr. P. Narayanasamy ASP/Mech Served as a resource person for the workshop on “Crafting High-Impact articles for Scopus: Strategies for Success” organized by EMG Yadava Women's College, Madurai , on 20.03.2025.



# INDUSTRY INSTITUTE INTERACTION BY FACULTY



Dr. S.Thangakasirajan ASP&HoD/Mech and Mr.A.Sanakaranarayanamurthy AP/Mech visited TAFE, Kalladipatti, Dindugul District and Interacted with Senior manager Er.K.Siva kumar and HRM Mrs.Shivaskathi on 19.10.2024 for students internship and Placement.



Dr. B.K.Parrthipan, AP/ Mech along with 6 Final Year Mechanical Engineering Students Visited the “ISF Industries Pvt. Ltd, Chennai” on 28.08.2024 for Students placement Drive.

# **Students Achievements and Awards**



## Grants Fetched by Students Project

**Final year student B. Siva Sethu Rajan (21UME025) and Dr. B.K. Parrthipan, AP/Mech received a grant of Rs:7500/-** under the Tamil Nadu State Council for Science and Technology (TNSCST) Student Project Scheme 2025 for their project titled '**EEE272: An Innovative Design for a Smart Projector Using Raspberry Pi**'."



**Final year students P. Vignesh kumar (21UME038), V. Sakthivel (21UME040), Nijo Prasad (21UME036), and Dr. M.Prithiviraj, AP/Mech received a grant of Rs:7500/-** under the Tamil Nadu State Council for Science and Technology (TNSCST) Student Project Scheme 2025 for their project titled '**EME121: Design and fabrication of low impact-resistant waterproof car cover in mitigating Chennai flood damage**'"



# Niral Tiruvizha – Nan Mudhalvan Scheme 2024

**Final year Mechanical Engineering students M.Ganesh Shree (21UME043), S.Kiran, S. Mithun and Faculty Mentor Dr. P. Narayanasamy, ASP/MECH, presented their project titled "Sustainable Utilization of Rubber Industry Scrap in Low-Cost Composites for Lightweight Applications" at Niral Thiruvizha, Anna University Regional Campus – Madurai on 21.05.2025.**





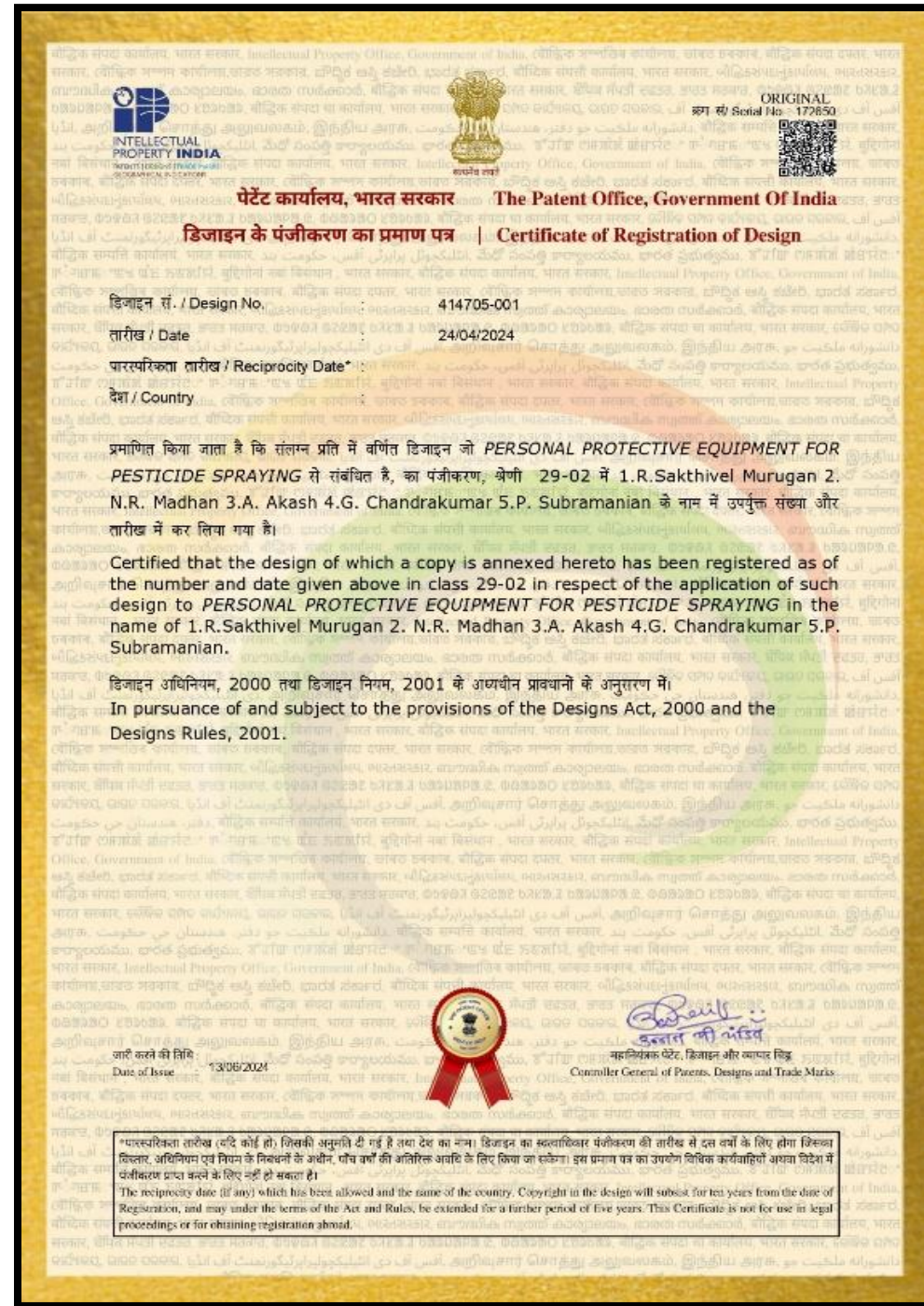
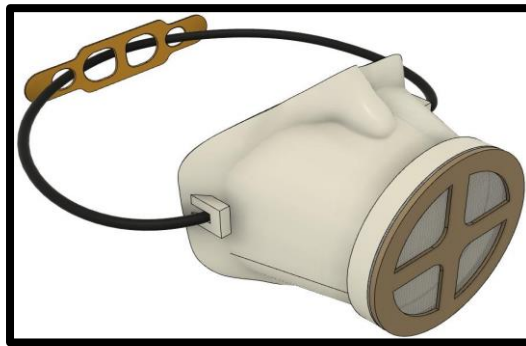
## Paper Publication by Students

**Second Year Mechanical Engineering Students D.M.Sahi (23UME014), M.Varunesh Bala (23UME024), S.Yokahariharan (23UME012) along with Dr.M.Prithiviraj AP/Mech Published the Article Titled “Crashworthiness Characterization on Thin-Walled Tube with Rubberized Coir Filled in Quasi-Static Loading” in “Material Circular Economy” Science , Engineering and Sustainability, Springer Nature. Published online : 13.09.2024**



# Patent granted

**A Design Patent Titled “Personal Protective Equipment for Pesticide Spraying” (414705-001 / Date 24/04/2024) was granted to Final Year Mechanical Engineering Students (2020-2024 Batch) Mr. A.Akash (920420UME047) Mr.C.Chandrakumar (920420UME046) & Mr.S.P.Subramanian (920420UME048) Along with Faculty members Dr. R. Sakthivel Murugan AP/Mech Mr.N.R.Madhan AP/Mech**





# Patent granted

**A Design patent titled “An Innovative Design of Sustainable Table using Corporate Wastes” (413559-001/ Date : 15/04/2024) was granted to Third Year Mechanical Engineering Students Mr. N. Hariharan (920421UME011) along with Faculty members Dr.S.Thangakasirajan ASP&HoD/Mech Dr.S.Senthil Prof/Mech**





# Patent granted

**A Design patent titled “An Innovative Design in Luggage rack with foldable solar panel ” (408543-001/ Date 23/02/2024) was granted to**

**Third Year Mechanical Engineering Students**

**Mr.G. Anand**

**Mr.M. Dinesh Karthick and**

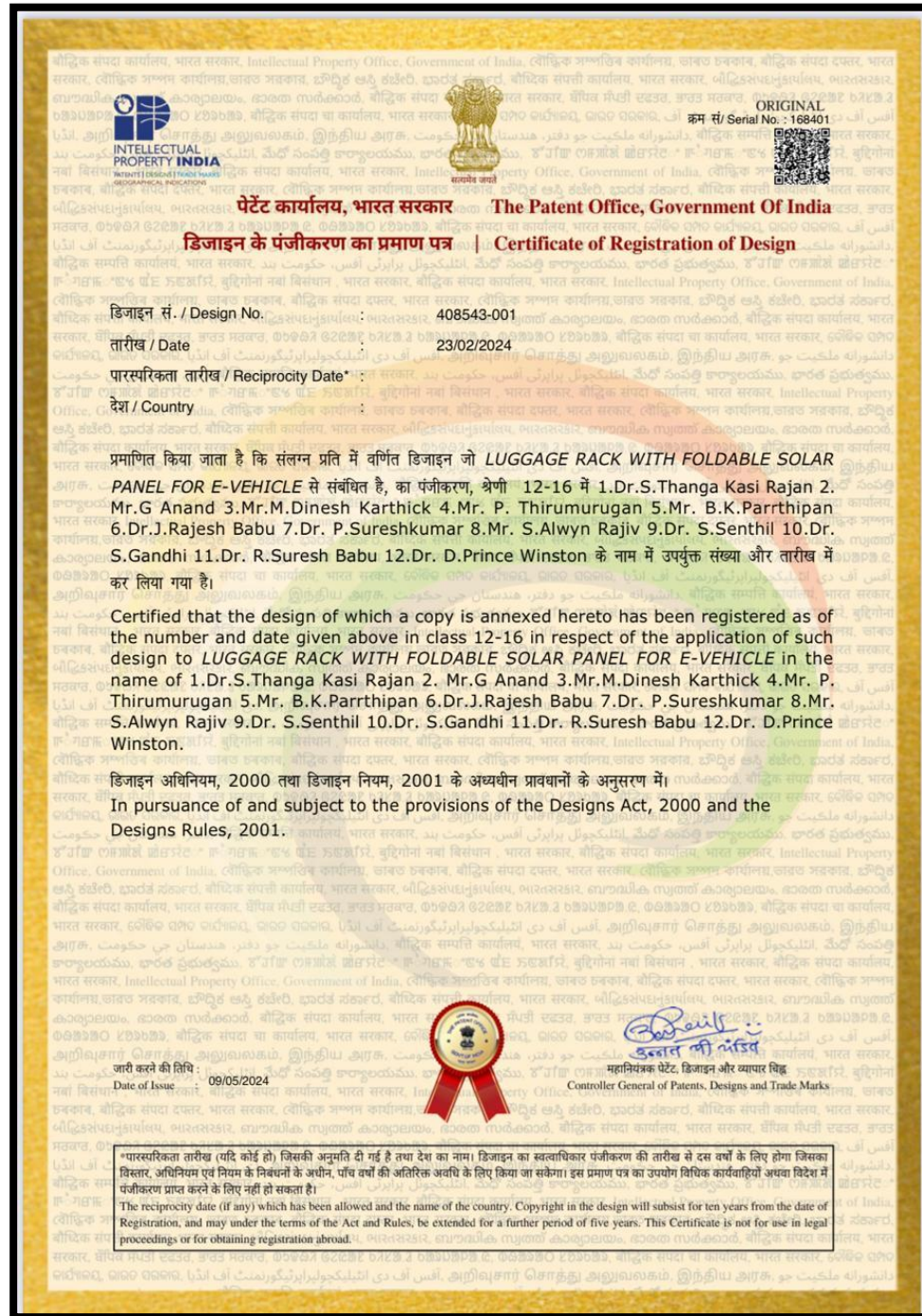
**Mr.P. Thirumurugan**

**along with Faculty members**

**Dr.S.Thangakasirajan ASP&HoD/Mech**

**Dr.S.Senthil Prof/Mech**

**Mr.B.K.Parrthipan AP/Mech**





# Patent granted

A Design patent titled “Potable Chair Cum Ladder” (428054-001/ Date 23/08/2024)

was granted to

Mr.Aniket Lakra

Mr.V.Aathi

Mr.V.Naveen Sarathi

Third Year Mechanical Engineering

Students along with Faculty members

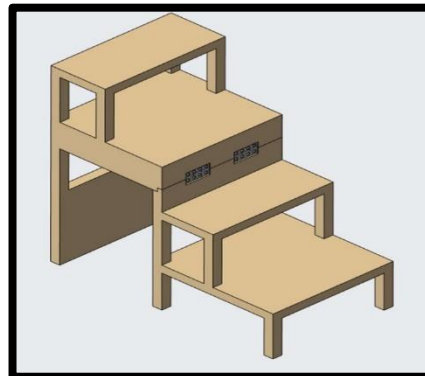
Dr.S.Thangakasirajan ASP&HoD/Mech

Dr.S.Senthil Prof/Mech

Mr.B.K.Parrthipan AP/Mech

Dr.B.Balavairavan

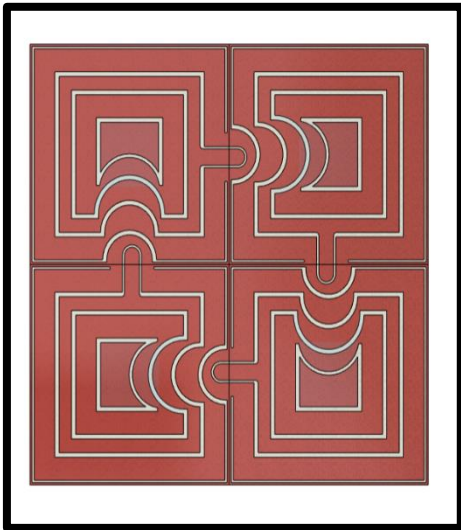
Dr.P.Narayansamy





# Patent granted

A Design patent titled “Wall Tiles (SET)” (414781-001/ Date 25/04/2024) was granted to Mr.N.Hariharan Third Year Mechanical Engineering Students along with Faculty members Dr.S.Thangakasirajan ASP&HoD/Mech Mr.B.K.Parrthipan AP/Mech



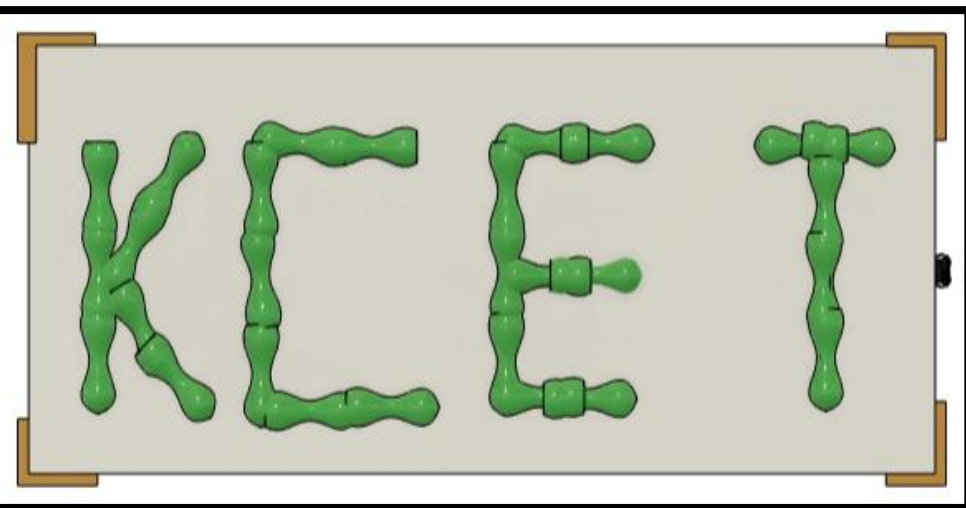


# Patent granted

A Design patent titled “LED Light Board” (416790-001/ Date 14/05/2024) was granted to Mr.N.Hariharan

Third Year Mechanical Engineering Students along with Faculty members

Dr.S.Senthil Prof/Mech  
Mr.B.K.Parrthipan AP/Mech



# UTILITY PATENT PUBLISHED

**Dr.S.Thangakasirajan**

**ASP&HoD/Mech**

**Dr.B.Balavairavan AP/Mech**

**Dr.K.Muruganandam AP/Mech**

**Dr.B.K.Parrthipan AP/Mech**

**Dr.S.Senthil Prof/Mech**

**Published the**

**Utility patent titled “The Transformation of rubber waste into environmentally friendly self - adhesive rubber sticky putty” (202441027215 / CBR No 22566 ) on 12.04.2024.**

**Dr.B.Balavairavan AP/Mech**

**Dr.B.K.Parrthipan AP/Mech**

**Published the**

**Utility patent titled “Low cost Mobile Robot” (202441020632 / CBR No 18905 ) on 05.04.2024.**

**IV Year Mechanical Engineering Students**

**Mr. Alwyn Joshua**

**Mr. Ramakrishnan**

**Mr. Ashraf Mohammed Along with**

**Dr.B.Balavairavan AP/Mech**

**Dr.B.K.Parrthipan AP/Mech**

**Dr.P.Narayanasamy ASP/Mech**

**Dr.S.Thangakasirajan**

**ASP&HoD/Mech**

**Dr.S.Senthil Prof/Mech**

**Published the**

**Utility patent titled IoT Driven Robotic Arm for injecting Medication to Pet animals (202441027215 / CBR No 22566 ) on 12.04.2024.**

**Dr.B.K.Parrthipan AP/Mech**

**Published the**

**Utility patent titled “An App for Country Egg Detector ” (202441025103 / CBR No 21428 ) on 05.04.2024**

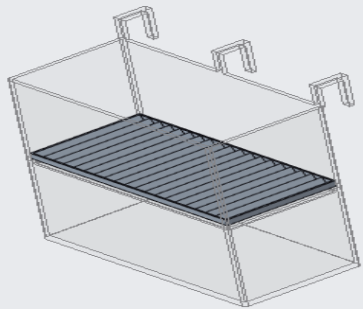


# Design Patent Filed by Students

**Second, third and Final year students Filed their project work as Design Patent**

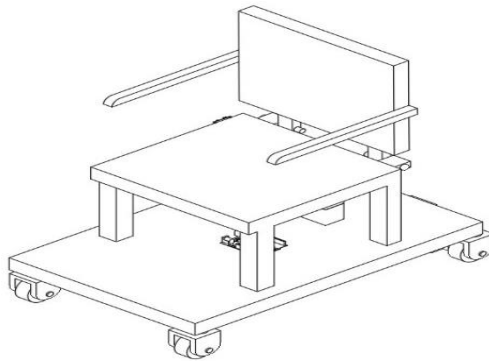
## Fish Breeding Box

(427514-001 Date : 20.08.2024 )

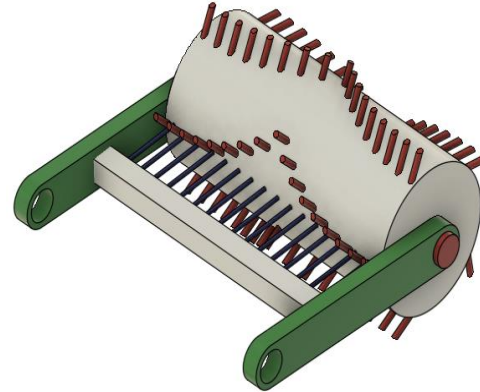


## Smart Wheel chair

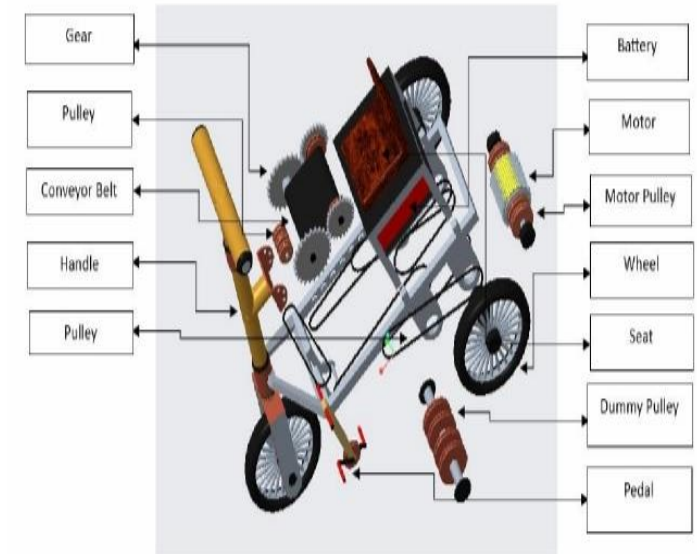
(429405-001 Date : 05.09.2024)



A novel spike weed puller with pigeon anterior view profiled structure for pulling out of plants and unwanted grass. (410715-001 Date : 16/03/2024)

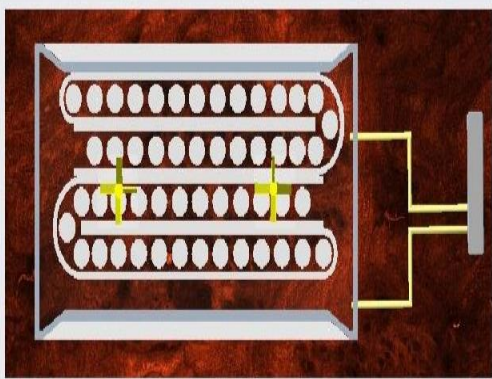


## Electric Tricycle with Treadmill (434639-001 Date : 17/10/2024)



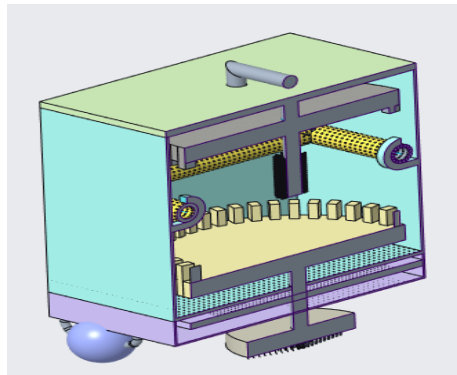
## Battery Cooling System for E-Vehicle

(434839-001 Date : 18.10.2024)



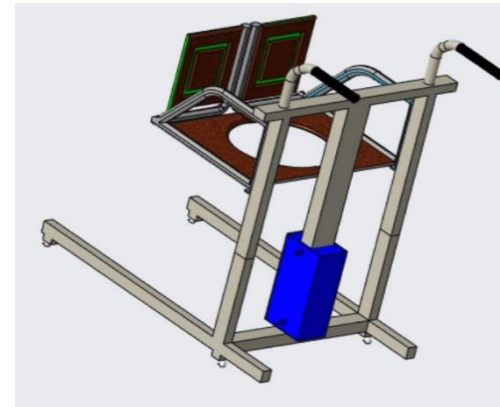
## Integrated Dishwasher and Floor Cleaner

(435479-001 Date : 24/10/2024)

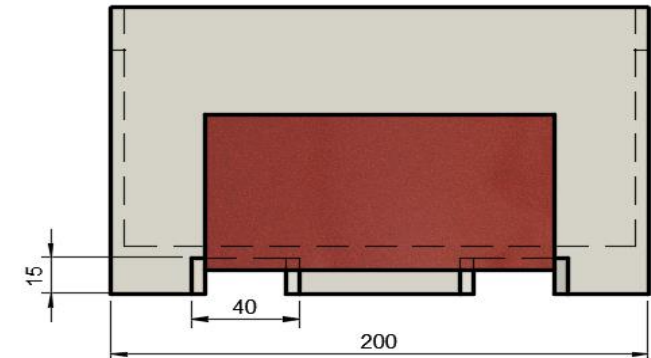


## Hydraulic Actuated Patient Lifting chair

(431118-001 Date : 20/09/2024)



Design of medical tray box with enhanced stability for automatic lifting and delivery operation in medical shop (410256-001 Date : 12.03.2024)

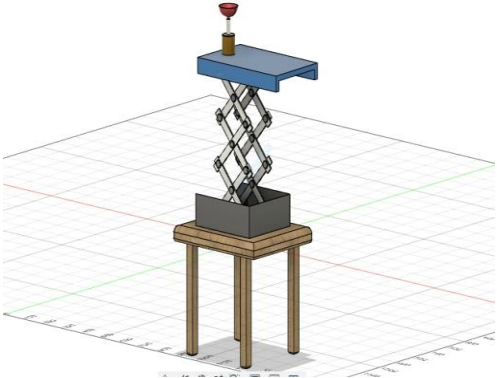


# Design Patent Filed by Students

**Second, third and Final year students Filed their project work as Design Patent**

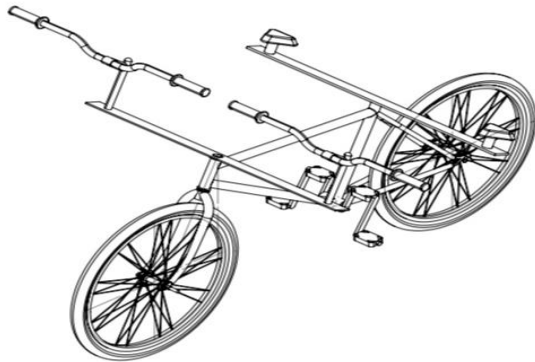
## Ceiling fan cleaning setup

(389444-001 Date : 03/07/2023)



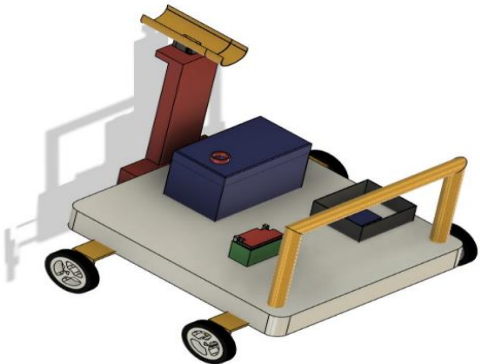
## Two-member bicycle

(391170-001 Date : 26/07/2023)



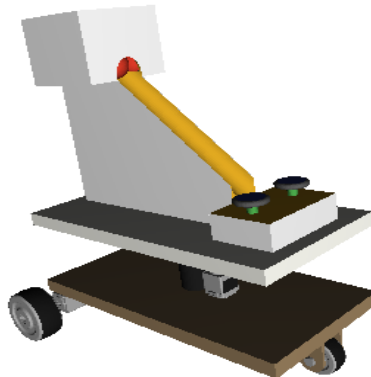
## Autonomous Fire Fighting Robot

(409798-001 Date : 08/03/2024)



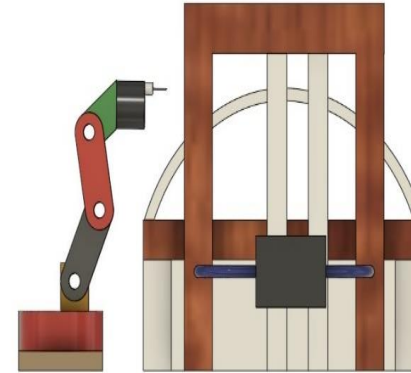
## Pesticide sprayer agribot

(413985-001 Date : 18/04/2024)



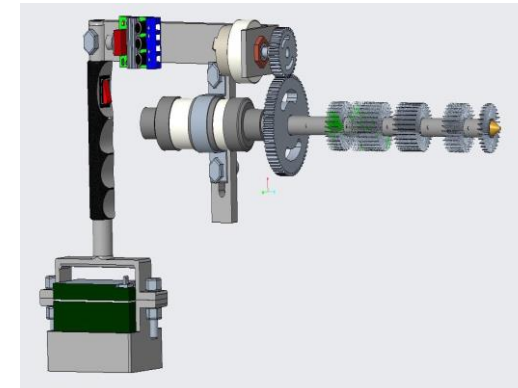
## IOT Enabled automatic syringe injection setup for pet animals

(410445-001 Date : 13/03/2024)



## 3D printed Low weight portable bottle cleaner.

(412683-001 Date : 05/04/2024)





# Conference presentation in NIT - Calicut

Second year Mechanical Engineering students **Mr. D.V.Sahi, Mr.M.Varuneshbala, Mr.B.Mayilkani, Yogahariharan** along with Guide **Dr. B. Balavairavan AP/ Mech, Dr.B.K.Parrthipan AP/Mech Dr.S.Thangakasirajan ASP&HoD/Mech** presenting paper titled **“Effect of Corona Treatment on Physico-chemical, Mechanical, Water Barrier, and Biodegradation Properties of PVA/Vigna mungo Husk Powder Reinforced Biofilms”** in International conference (MEEHCON'24) organized by NIT, Calicut on 20.12.2024&21.12.2024.

Seond Year year Mechanical Engineering students **M.Aravind kumar , K.Ashwin** along with Guide **Dr. B. Balavairavan AP/ Mech, Dr.B.K.Parrthipan AP/Mech Dr.S.Thangakasirajan ASP&HoD/Mech** presenting paper titled **“Development and Characterization of Cocos Nucifera Shell (CNS) Biochar Reinforced Vinyl Ester Composites”** in International conference (MEEHCON'24) organized by NIT, Calicut on 20.12.2024&21.12.2024.



Second year Mechanical Engineering students **Mr.S.Arun Prakash, Mr.J.Sharukesh** presenting poster titled **“ Review on Gravitational Energy Storage”** in International conference (MEEHCON'24) organized by NIT, Calicut on 20.12.2024 & 21.12.2024.

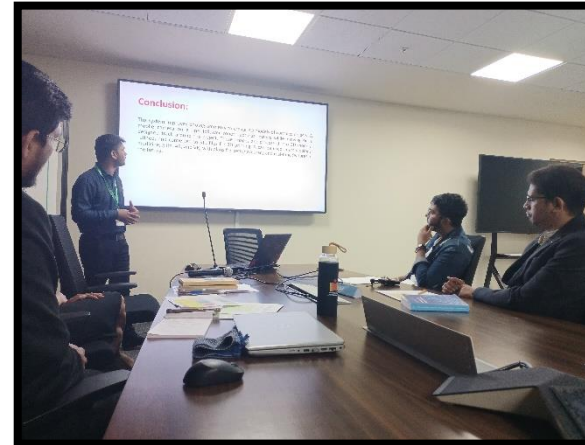
Final year Mechanical Engineering student **Mr.V.Sakthivel** presenting poster titled **“ Design and Fabrication of Low impact Resistant Waterproof Car Cover in mitigating of Flood Damage”** in International conference (MEEHCON'24) organized by NIT, Calicut on 20.12.2024 & 21.12.2024.



# Conference presentation in NIT – Rourkela & IIT Hyderabad

Final-year Mechanical Engineering students J. Alwyn Joshua (21UME014), S. Ramachandran (21UME027), and A. Asraf Mohamed (21UME017), along with third-year student Balaji (22UME025) and Dr. B. Balavairavan, AP/Mech, presented their project titled **“Robotic Arm System for Injecting Medication to Pet Animals Through Real-Time Vision”** at the International Conference on Automation and Machine Learning Using Robots and Artificial Intelligence Methods (AMLURAIM), organized by the Department of Mechanical Engineering, National Institute of Technology, Rourkela, Odisha, on February 12, 2025 hybrid mode.

Final-year Mechanical Engineering students G.R.Srivasan (21UME034), M.Kannan (21UME015), and V.Pragathiswaran (21UME043), along with Mr.R.Sakthivelmurugan, AP/Mech, presented their project titled **“ Improving Photogrammetry System through the Development of Low –Cost Data Acquisition Device Setup for the construction of Complex Geometries”** at the 10<sup>th</sup> International Conference on Research and Design organized by Indian Institute of Technology, Hyderabad on January 8<sup>th</sup> -10<sup>th</sup> 2025.





# Achievements in Students Co-Curricular Activities

The Final and Second year mechanical students Shafiq Ahamed.K (21UME028), O.B.Kausik (21UME026), P.Veerendra Sevak (21UME006) J.Sharukesh (23UME026) along with Dr. M.Prithiviraj AP/Mech presented a Conference paper titled "Design and fabrication of a Coupling System Wind Turbine with electric vehicle for Dynamo-based Battery Charging System", in online and “Won Best Paper Award” in Empowering a Digitally Sustainable Future: Harnessing Technology for a Better World 2025, organized Collaboratively by INTI International University & ASET College of Science & Technology, Date: March 26.03.2025.



# Achievements in Students Co-Curricular Activities



Third year mechanical student **Mr.V.Aathi (22UME014)** Won the first prize in "CAD MODELING" along with cash prize Rs.750/- in National Level Students Technical Symposium IMPLEZ 2K25, Held at KLN college of Engineering on 13.02.2025.



Third year mechanical student **Mr.V.Aathi (22UME014), Mr.Aniket Lehra (22UME020), Mr.V.Naveen Sarathi (22UME022)** Won the first prize in "Paper Presentation along with cash prize Rs.750/- in National Level Students Technical Symposium IMPLEZ 2K25, Held at KLN college of Engineering on 13.02.2025.



Third year Mechanical student **R. K. Dhanush (22UMEC013)** won First prize in "Quiz competition" conducted by STATISTA '25 Inter-Collegiate Competitions by Department of Statistics, GVN College, Kovilpatti on 18.02.2025 .



Third year Mechanical students, **S.Vigneshwar(22UME005), B.Paramasivan (22UME018)** attended National Level Technical Symposium TORQUEX25 and Won Third prize in the Decode designer (CAD Modelling) along with a Cash prize of Rs.700/- held at S.I.T College of Engineering, Kariapatti on 08.03.2025.



The IV-year mechanical students **Kiran.S (21UME013), Karan.V (21UME030), Siva Balan.K (21UME009)** along with **Dr.K.muruganandhan AP/Mech** presented a paper and won second prize for the paper titled DESIGN OF NEXTGEN WASTE COLLECTION INTERFACE in the International Conference on Advances in Biotechnology: Leveraging AI Tools for Future Innovations (BLAIT 2025) organized by P.S.R. Engineering College, Sivakasi, Date:13.03.2025.





# Students Co-Curricular and Extra Curricular Activities



DEPARTMENT OF MECHANICAL ENGINEERING  
(Accredited by NBA, New Delhi)

*Congratulations!*

Our Department Students in College Cricket Team won second place and cash award of Rs.30,000/- in CM Trophy.



IV Mech  
Mr.V.Chandhru  
(21UME010)



IV Mech  
Mr.A.Balagurun  
(21UME042)



II Mech  
Mr.V.Sivakumar  
(23UME027)

SKILL IS ONLY DEVELOPED BY HOURS AND HOURS OF WORK



Final year mechanical engineering students AlitiaB. almeda, and M.Ganesh shree Won the Third prize on the paper presentation in National Level Technical Symposium "TEK CLUSTER'24" organized by kongu Nadu college of Engineering and Technology , Trichy on 21.09.2024. Won cash prize of Rs. 1000/-



Third year mechanical student R.K.DHANUSH ( 22UME013) received certificate of merit to become top 20th place in 6km marathon held at virudhunagar by good well scouts group on 28.07.2024.




Final year Mechanical Engineering student \*Mithun\*. Completed 10KM in\*CYCLOTRON\* and \*5KM in MARATHON\* organization by Maa Madurai Team on 10.08.2024.



Final year Mechanical Engineering student Mr. P. Thirumurugan participated in 5km marathon organised by MAA Madurai vizha on 11.11.2024.

# NPTEL /International Certification courses


 **NPTEL ONLINE CERTIFICATION**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**M ARAVIND KUMAR**  
for successfully completing the course  
**Computational Fluid Dynamics**

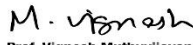
with a consolidated score of **48** %


Online Assignments	17.25/25	Proctored Exam	30.41/75
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Total number of candidates certified in this course: **96**


  
**Prof. Andrew Thangaraj**  
Chair  
Centre for Outreach and Digital Education, IITM


**Jan-Apr 2025**  
(12 week course)

  
**Prof. Vignesh Muthuvijayan**  
NPTEL Coordinator  
IIT Madras

 Indian Institute of Technology Madras



Roll No: NPTEL25CH18S1151000037 To verify the certificate  No. of credits recommended: 3 or 4


 **NPTEL ONLINE CERTIFICATION**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**B MAYILKANI**  
for successfully completing the course  
**Matlab Programming for Numerical Computation**


with a consolidated score of **49** %


Online Assignments	16.35/25	Proctored Exam	32.81/75
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Total number of candidates certified in this course: **231**


  
**Prof. Andrew Thangaraj**  
Chair  
Centre for Outreach and Digital Education, IITM

**Jan-Apr 2025**  
(12 week course)

  
**Prof. Vignesh Muthuvijayan**  
NPTEL Coordinator  
IIT Madras

 Indian Institute of Technology Madras



Roll No: NPTEL25CH29S1051000330 To verify the certificate  No. of credits recommended: 3 or 4



**Karan V**

**Certificate of Completion for**  
**AWS Academy Graduate - AWS Academy Cloud Foundations**

**Course hours completed**  
**20 hours**

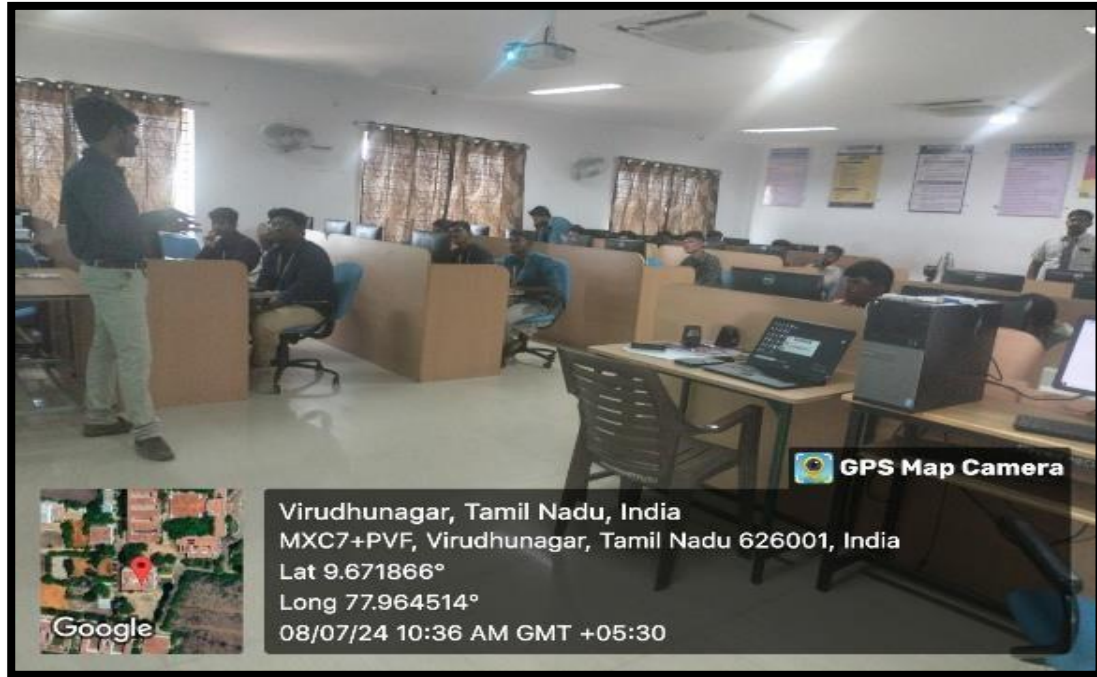
**Issued on**  
**10/14/2024**

**Digital badge**  
<https://www.credly.com/go/2i1bxuTV>

**Final Year Mechanical Engineering**  
**Student Mr.Karan.V successfully**  
**completed the “AWS Academy,**  
**International Graduate Certification**  
**course on – AWS Academy Cloud**  
**Foundations” .**



# VALUE ADDED COURSES COMPLETED 2024-2025 (ODD)



**31 III Year Mechanical Engineering Students successfully completed the Value added course on “Internet of Things” from 08.07.2024 to 13.07.2024.**  
**Resource person : Er. A.Kesavan, CEO and Director, Quantanics Techserv, Madurai.**





# VALUE ADDED COURSES COMPLETED 2024-2025 (EVEN)

## IMTEX, Visit by Students



All II Year Mechanical Engineering Students  
successfully completed the Value added course on “  
CNC Machines” from 20.01.2025 to 25.01.2025.  
Venue : NTTF Peeneya, Bangalore.



All II Year Mechanical Engineering  
Students along with Dr.R.Sakthivel  
Murugan AP/Mech Visited the IMTEX  
2025, International Industrial Expo at  
Bangalore on 25.01.2025.



## Students Performance in 2024-25 (EVEN)

## Students Placement



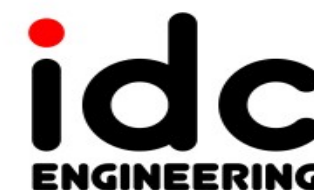
### Outcomes – Students Placement

**Total No of Students : 44**

**No of Students Placed : 36**

**Average Salary : 3.08 Lakhs**

### Our Recruiters



Co-Curricular Activities	II Year Mech Students (Total Strength 26)	III Year Mech Students (Total Strength 31)	IV Year Mech Students (Total Strength 44)
Participation of Paper Presentation in Symposium	20	22	10
Patent filling by Students	-	-	-
Technical and Non technical events participation	15	20	15
Paper presentation in Conference (National/International)	12	9	43

# Students Placement (Batch 2021-2025)



**KAMARAJ**  
COLLEGE OF ENGINEERING & TECHNOLOGY  
(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)  
S.P.G.Chidambara Nadar - C.Nagammal Campus  
S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR)

## CONGRATULATIONS !


for being placed in

**Motherson Automotive Technologies & Engineering,  
Chennai**



**R.MURALI KRISHNAN**      **P.VEERANDRA SEVAK**  
IV Mech                      IV Mech

 /kamarajeng  [www.kamarajengg.edu.in](http://www.kamarajengg.edu.in)



**KAMARAJ**  
COLLEGE OF ENGINEERING & TECHNOLOGY  
(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)  
S.P.G.Chidambara Nadar - C.Nagammal Campus  
S.P.G.C.Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

## DEPARTMENT OF MECHANICAL ENGINEERING


*(Accredited by NBA, New Delhi)*






## Congratulations

For being placed in

**ISF Industries Pvt, Ltd., CHENNAI**

**CTC : 3.6 LPA**





IV Mech      IV Mech      IV Mech      IV Mech      IV Mech  
**Mr.M.Kannan**      **Mr.N.Hariharan**      **Mr.O.B.Kausik**      **Mr.B.Nagendra Kumar**      **Mr.K.M.Yogeshwaran**  
(21UME015)      (21UME011)      (21UME026)      (21UME023)      (21UME035)





# Students Placement (Batch 2021-2025)

## KAMARAJ COLLEGE OF ENGINEERING & TECHNOLOGY

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Department of Mechanical Engineering  
(Accredited by NBA, New Delhi)

Congratulations for getting placed in  
**YOUNGSHIN AUTOMOTIVE INDIA PRIVATE  
LIMITED, CHENNAI**



K. Gokul Raj  
IV Mech



A. Dhanush Kumar  
IV Mech



K. Sivabalan  
IV Mech



N. Mohamed Ashif  
IV Mech



A. Kaliraj  
IV Mech



V. Sakthivel  
IV Mech

*Your success is well deserved, and your journey is just beginning.  
Shine bright and keep achieving!*

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Department of Mechanical Engineering  
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Congratulations for being placed in  
**MOTHERSON AUTOMOTIVE TECHNOLOGIES  
AND ENGINEERING, CHENNAI**



JEGATHEESH.M  
IV - Mech



KARAN.V  
IV - Mech



BALAGURU.A  
IV - Mech



DEEPAK KUMAR.C  
IV - Mech



RAMAR.A  
IV - Mech



MITHUN.S  
IV - Mech



DINESH KARTHICK.M  
IV - Mech



CTC:  
3.6 LPA

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Department of Mechanical Engineering  
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Congratulations for being placed in  
**IDC ENGINEERING INDIA PVT LTD.,CHENNAI**



Sakthivel M  
IV - Mech



Vishnu Vardhan K  
IV - Mech



Madhav Venkadesh J  
IV - Mech



Chandhru V  
IV - Mech



Srivasan G R  
IV - Mech



Ganesh Shree M  
IV - Mech



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Shine bright and keep achieving!*





# Students Placement (Batch 2021-2025)

**KAMARAJ**  
COLLEGE OF ENGINEERING & TECHNOLOGY

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S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

Department of Mechanical Engineering  
(Accredited by NBA, New Delhi)

Congratulations for being placed in

**HALIFAX MARINE AND OFFSHORE PVT LTD., MUMBAI**



CTC:  
5.76 LPA

**M. ARAVIND KUMAR**  
IV - Mech

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COLLEGE OF ENGINEERING & TECHNOLOGY

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S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

Department of Mechanical Engineering  
(Accredited by NBA, New Delhi)

Congratulations for getting Internship at

**M/S. RAINI INDUSTRIES, CHENNAI**



**Thirumurugan P**  
IV - Mech

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S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

Department of Mechanical Engineering  
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Congratulations for being placed in

**M/S. MICRO PRECISION, CHENNAI**



**DINESH KARTHICK M**  
IV - Mech

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Department of Mechanical Engineering  
(Accredited by NBA, New Delhi)

Congratulations for getting Internship at

**TVS ARGOMM PVT. LTD., MADURAI**



**Alitia B. Almeda**  
IV - Mech

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COLLEGE OF ENGINEERING & TECHNOLOGY

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Department of Mechanical Engineering  
(Accredited by NBA, New Delhi)

Congratulations for getting Internship at

**TVS SUNDARAM FASTENERS, MADURAI**



**Kiran S**  
IV - Mech



**Ramachandran S**  
IV - Mech

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# Students Internship

24 of Students II year Mechanical Engineering (2023-27 Batch)  
got Internship in Various Industries

Sl.No	Name of the Industry	Students Name
1.	Hindustan Aeronautic Limited, Bangalore	GIRIDHARAN. N THARUN RAJ. P. S MUKILARASAN. M HARISH BALA. R
2.	ISRO, Trivandrum	ARAVIND KUMAR .M
3.	Mahindra Research Valley, Chennai	DHARINEESH. S , ARUN PRAKASH. S KARTHICKEYAN. M
4.	National Institute of Technology, Tiruchirappalli. Summer Internship 2025	SAHI D.V.
5.	Nova Carbon Private Limited, Tirunelveli	SHIVAKUMAAR. M THANGAPANDIRAJA. M PON GANESH RAM. M BALAKRISHNAN. P
6.	M/s Raini Industries, Chennai	SUBRAMANI PANDI.K SIVAKUMAR. V VISHAL. M
7.	Rane Groups, Chennai	SHARUKESH. J ASHWIN. K MAYILKANI. B
8.	Schwing stetter India Pvt. Ltd , Chennai	VASANTHKUMAR. N, VARUNESHBALAA. M ESAKKI SUDHAN.E, MUTHURAJA. M MAHALINGAM. N
9.	Sona BLW Precision Forgings Limited, Coimbatore	YOKAHARIHARAN. S

Four of Final year mechanical students got internship at "TAFE Chennai for the duration of 3 months from 16.12.2024 to 16.03.2025.

Kiran .S (21UME013)

Thirukumaran.S (21UME037)

Vigneshwaran. P (21UME038)

Anandh .G (21UME039)



Two of Third year mechanical students got 52 day NSDC certified internship at "Unity of Youth Foundation (UOY) – Pratham 2- Wheeler Automotive Skilling Centre, Salem from January 20<sup>th</sup> 2025.

S.Karuppasamy (22UME009)

S.Aravindkumar (22UME031)



Expanding Horizons



Hindustan Aeronautics Limited



# INDUSTRIES VISITED BY STUDENTS



II year Mechanical Engineering students Visited the Industry “Kwaliti coils Pvt. Ltd”, Madurai along with Dr.B.Balavariavan AP/Mech and Dr.B.K.Parrthipan AP/Mech on 15.02.2025.



II year and III Year Mechanical Engineering students Visited the Industry “Anna Aluminum”, Cochin, Kerala along with Dr.M.Prithiviraj AP/Mech and Mr.D.Palanikumar AP/Mech on 14.03.2025.



II year and III Year Mechanical Engineering students Visited the Industry “Sun Pressing Pvt,Ltd” Madurai along with Dr.M.Prithiviraj AP/Mech and Mr.N.R.Madhan AP/Mech on 27.03.2025.



The following Third Year Mechanical Engineering Students Aathi.V (22UME014). Aniket Lekra (22UME020) Naveen sarathy V (22UME022) visited Virudhunagar Junction Railway Station for the Seed Money Project titled “Solar-Powered electric vehicle with dynamic solar panel reconfiguration for optimal power generation. Date of visit: 20.02.2025.



II year and III Year Mechanical Engineering students Visited the “Cochin Harbor, Cochin, Kerala”. along with Dr.M.Prithiviraj AP/Mech and Mr.D.Palanikumar AP/Mech on 14.03.2025.



II year and III Year Mechanical Engineering students Visited the “ VTM Textiles Industry” Sulakarai, Virudhunagar along with Dr.S.Muthunatarajan AP/Mech and Mr.N.R.Madhan AP/Mech on 16.04.2025.



# ALUMNI INTERACTION

Er.Harimalairajan (2017 passed out), Design Engineer, Caterpillar, delivered a guest lecture on "Industry Culture" for Final year Mechanical Engineering students on 20.07.2024.

Mr. Michael Raj, Engineer - Renault Nissan delivered a Guest lecture on "Enlightenment About Renault Nissan Recruitment Process" for IV year Mechanical Engineering Students through online on 26.08.2024.

Er. Vignesh (2015 batch), Senior Engineer in Daimler Trucks India, Bangalore delivered a Guest Lecture on "Work Ethics" for Final Year and third Year Mechanical Engineering Students on 25.09.2024.

Er.D.Sivaramakrishnan (2016 Passed Out), Cooling Specialist Engineer, Siemens Gamesa Renewable Energy, Bangalore delivered a guest lecture on "Technical Aspects of Cooling Systems" for III and IV year Mechanical Engineering students. on 16.08.2024.

Er.M.DhanushKumar, Er.S.Harish, Er. G.Alphose Sam Anto (2024 Passed out) discussed with a third year Mechanical Engineering Students in the topic of "Job Opportunities in BIM for Mechanical Engineer" on 05.10.2024.

Mr.N.Vijayakumar, Deputy General Manager, Mahindra & Mahindra, Chennai, delivered a Guest Lecture on "Innovative Thinking and Career Opportunities" for First year mechanical Engineering students on 07.12.2024.



# Events Organized by Department (2024-2025) Total - 22 Events

S. No.	Date of Event	Name of the Event
1	19.07.2024	Funding Opportunities in MSME
2	07.09.2024	Department of Mechanical Engineering in association with Institution of Engineers, Madurai Local Chapter organizes one day seminar on “NEXT GEN ENGINEERING IN IOT: A NEW ERA OF SMART PRODUCTS & SYSTEMS”
3	16.11.2024	How to enhance the employability in core Engineering
4	07.12.2024	Innovative Thinking and Career Opportunities
5	09/12/2024 to 13/12/2024	Export Policies, Procedures and Documentation
6	23.01.2025	Expectations of engineering in today's market
7	02.04.2025	Shop floor Immersion using 5S Technology
8	20.07.2024	Organisation Culture
9	16.08.2024	Technical aspects of Cooling system
10	26.09.2024	Next Gen Engineering in IoT: A New Era of Smart Products & Systems
11	05.11.2024	Industry Expectation

