

NEWS LETTER



JULY – DECEMBER 2023

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DEPARTMENT @ GLANCE

Department of Mechanical Engineering was established in the year 2000 during the inception of the college and is one of the prime departments of our college and offers a 4-year B.E Programme in Mechanical Engineering and 2-year PG Programme in Mechatronics. The department of Mechanical Engineering has a dynamic team of faculty and supporting staff members. Department of Mechanical Engineering is continuously striving to achieve excellence in academic and industry-oriented research along with consultancy work offering service to the society. UG Course are Reaccredited by NBA up to 2025.

VISION OF THE DEPARTMENT

To enable the students, excel in a high-value career, higher education and research, in the field of Mechanical Engineering through innovative teaching and learning methodologies, to meet the needs of the industry and to be a part of the advancing technological revolution.

MISSION OF THE DEPARTMENT

- Imparting quality education to the students to meet the global challenges in the field of Mechanical Engineering
- Enriching their knowledge by providing Research and Development opportunities.
- Inculcating self-confidence for being a successful Entrepreneur.

PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

- **PEO1:** Graduates will formulate and solve problems in the mechanical engineering domain and will develop proficiency in computer-based engineering and use of computational tools.

- **PEO2:** Graduates will communicate and engage in team-based work on multidisciplinary engineering projects practicing the ethics in their profession.
- **PEO3:** Graduates will recognize the importance of self-learning and engage in continuous independent learning to become successful entrepreneurs or professionals in their domain.

PROGRAMME OUTCOMES (POs)

PO1: Engineering knowledge

Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis

Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/development of solutions

Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems

Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and sustainability

Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work

Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication

Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance

Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-long learning

Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO 1: Identify analyze and impart complex engineering problems in Thermal Engineering, Design Engineering and Manufacturing Engineering domains.

PSO 2: Enabling the student to take-up career in core industries so as to develop products using CAD/CAM tools.

(Centre of Excellence / MoU's / Collaboration Activities / Partial Delivery)

Centre of Excellence:

- Centre for Composite Materials

Dr. S. Vimalanand, ASP/MECH, conducted Hands on Experiential Workshop at Centre for Composite Materials on 22.9.2023.



KARPAGAM
COLLEGE OF ENGINEERING
Rediscover | Refine | Redefine
Approved by AICTE and Affiliated to Anna University
Autonomous | Accredited by NAAC with 'A' grade
(An ISO 9001:2015 and ISO 14001:2015 Certified Institution)

CENTRE FOR COMPOSITE MATERIALS
DEPARTMENT OF MECHANICAL ENGINEERING

One Day Experiential Learning Workshop on
Advanced Composite Materials and Structures

Registration Link
<https://forms.gle/74yZzp2XFgQGwvF8>
QR Code

Registration fee:
• UG and PG Students – **Rs 400**
• Faculty Members / Research Scholars / Industry Member – **Rs. 750**

For further details, contact:
Dr.S.Vimal Anand ASP /Mech
Ph.No: 98656 73930, Email: vimalanands@kce.ac.in

RESOURCE PERSON

Dr.S.Vimal Anand
ASP / Mech,
Centre for Composite Materials,
Karpagam College of Engineering

22nd | SEP
FRIDAY
Time: 09.00 am to 4.30 pm
Venue: Centre for Composite Materials

Organising Secretary: Dr.S.Vimal Anand ASP/Mech
Convenors: Dr.C.Krishnaraj HOD/Mech, KCE; Dr. V. Kumar Chinnaiyan Principal

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Hands on Experiential Workshop conducted at Centre for Composite Materials on 22.9.2023

MOU Signed:

- On 15.07.2023, MOU has been signed with **ZOGX, Coimbatore.**



- On 20.07.2023, MOU has been signed with **Prakash Gears, Coimbatore.**
- On 07.10.2023, MOU has been signed with **Aqua Group, Coimbatore.**



- On 14.12.2023, MOU has been signed with **‘The Coimbatore Productivity Council (CPC)’.**



Collaboration Activities:

- On 14.08.2023, 2 Faculty visited the Aqua Group, Coimbatore for Faculty Training. Dr.C.Murugesan, VP- Design & Development acted as the Mentor.
- On 25.08.2023, 2 Faculty visited Indo shell for Course Content Development, Coimbatore. Dr. V.S.Saravanan, Jr. Vice President acted as the Mentor.
- On 09.09.2023, Workshop on Advanced Material Characterization Techniques was conducted at Centre for Material Science, KAHE, Coimbatore. Dr. S. Manivanan, Dr. S. Esakkimuthu, Dr. P. Sakthivel, Dr. P. M. Gopal, Dr. V. Kavimani acted as the Resource Persons.



Centre for Material Science, KAHE, Coimbatore

- On 21.09.2023, A Hands-on Training Program on ECU Tuning of Race Cars was conducted at Reyn Lab Technologies, Chennai. Mr. Sajeeth Kumar, Founder & CEO, acted as the Resource person.
- On 21.09.2023, Faculty Training Program for Faculty Members on Latest Technological Advancements in Automotive industries was conducted at Reyn Lab Technologies, Chennai. Mr. Sajeeth Kumar, Founder & CEO, acted as the Mentor.
- On 23.09.2023, Workshop was conducted on How to Create a startup - Opportunities and Challenges by Zogx, Coimbatore. Mr. Prabhaakar Sundararaj, Founder, ZOGX, Coimbatore acted as the Resource person.
- On 07.10.2023, 2 Faculty visited the Factory for Faculty Training was as a part of Faculty training program by Aqua Group, Coimbatore. Dr.C.Murugesan, VP- Design & Development acted as the Mentor.

- On 16.10.2023, One Day Workshop on “Introduction to Robotic Automations” was conducted by ZOGX, Coimbatore. Mr. G.Janakiraman, Technical Business Analyst, Techpower Solutions powered by ZOGX, Coimbatore acted as the Resource person.
- During October 17th to 19th 2023, Faculty Training Program for 2 Faculties was conducted by Dave AI, Bangalore. Mr. Sriram P H, Founder, Dave AI acted as the Mentor.

Partial Delivery:

- On October 12th and 14th 2023, Partial Delivery for the course on “DESIGN OF MACHINE ELEMENTS” was given by Industrial Expert, **Mr.Manosarth Murthy**, Senior Manager, Caresoft Global Pvt Ltd, Coimbatore for Third year Mechanical Engineering students.
- On August 10th and 12th 2023, Partial Delivery for the course on “TOTAL QUALITY MANAGEMENT” was given by Industrial Expert, **Mr.Sukumar**, Managing Director, Techflow Engineers, Coimbatore for year Mechanical Engineering students.
- On December 16th and 23rd 2023, Partial Delivery for the course on “FLUID MECHANICS AND MACHINERY” was given by Industrial Expert, **Mr.G.Prasath**, Senior Engineer, Design and Development, Aquasub Engineering, Coimbatore for Mechanical Engineering students.

FACULTY CORNER

Faculty Grants / Research Consultancy / Seed money

RECEIVED GRANT FROM GOVERNMENT AGENCY:

- Mr. N. Subramani, Assistant Professor, received Rs. 15,000 for conducting Mexhibit 2023 from TNSCST.
- Dr. C. Krishnaraj, Professor and Head, received Rs. 80,000 for conducting Industry Institute Conclave 2023 from SERB.

SEED MONEY

- Dr.S.Vimalanand, Associate Professor, received a sum of Rs. 1,00,000.
- Dr.K.Ananthakumar, Associate Professor, received a sum of Rs. 65,000.
- Dr.Titus Thankachan, Associate Professor, received a sum of Rs. 1,45,000.
- Mr.N.Subramani, Assistant Professor, received a sum of Rs. 50,000.
- Dr.V.V. Arun Sankar, Assistant Professor, received a sum of Rs. 85,000.
- Mr.S.Chitharthan, Assistant Professor, received a sum of Rs. 1,00,000.

NDA SIGNED:

- ❖ Non-Disclosure Agreement (NDA) has been signed with “HNM Rubber Products” on 04.12.2023.



Faculty Awards / Achievements/ Patents

PATENTS:

- Dr.G.Padmanaban, Associate Professor, published a Patent on the title “A Carbon Nanotube (Cn) And Ethylene Glycol (Es) Nanofluid Composition For Heat Convection In Complex Heating Systems And Method Thereof”
- Mr. R.A.Hari Baalaaji, Assistant Professor, published a Patent on the title “Characterization studies on surface modified shot peened Ti6Al4V alloy implants”.
- Dr. J.Ganesh Murali, Professor, published a Patent on the title “Four Wheeled Two-Seaters In Campus Electric Vehicle ”.
- Dr. J.Ganesh Murali, Professor, published a Patent on the title “Solar Charging Station For Electric Vehicles”

- Dr. J.Ganesh Murali, Professor, published a Patent on the title “Biometric Device In Car”
- Dr. J.Ganesh Murali, Professor, published a Patent on the title “Intelligent Robotic Car”
- Dr. J.Ganesh Murali, Professor, published a Patent on the title “Unmanned Aerial Vehicle For Ambulance”
- Dr. K. Ananthakumar, Associate Professor, published a Patent on the title “Synthesis and characterization of conducting polymers nanostructures and their applications”.

Faculty Participation – Seminar / Webinar / Workshop / FDP / STTP**FACULTY DEVELOPMENT PROGRAMS (FDP):**

- Dr. KRISHNARAJ.C, Dr. ARUN SANKAR V V, Dr. K.ANANTHAKUMAR, Mr. MASILAMANI R, Mr. HARI BAALAAJI R.A. attended NITTTR - Professional Development Programme on Advances in Heat Treatment and Material Processing during 12-06-2023 - 16-06-2023.
- Dr. J.GANESH MURALI, Dr. TITUS THANKACHAN, Mr. MURALEEDHARAN P, Mr. S. SATHISH attended NITTTR - Professional Development Programme on Student Psychology during 12-06-2023 - 16-06-2023.
- Mr. KONDUSAMY V attended AICTE-UHV FDP on Inculcating Universal Human Values in Technical Education during 12-06-2023 - 16-06-2023.
- Mr. N SUBRAMANI, Mr. CHITHARTHAN S attended NITTTR - Professional Development Programme on Developing Instructional Material during 19-06-2023 - 23-06-2023.
- Mr. R. ARULMURUGAN, Mr. K ARUN KUMAR, Mr. RAJESH M attended NITTTR - Professional Development Programme on Smart Manufacturing during 03-07-2023 - 07-07-2023.
- Mr. HARI BAALAAJI R.A attended NITTTR - Professional Development Programme on Refrigeration and Air Conditioning during 24-07-2023 - 28-07-2023.
- Mr. S. SATHISH attended NITTTR - Trends in 3D Printing and Manufacturing during 11-09-2023 - 15-09-2023.
- Dr. ARUN SANKAR V V, Dr. TITUS THANKACHAN, Dr. G. PADMANABAN, Dr. J. DEVARAJ, Dr. S. VIMALANAND, Mr. CHITHARTHAN S, Mr. KONDUSAMY V, Mr. N SUBRAMANI, Mr. CHITHARTHAN S, Mr. R. ARULMURUGAN, Mr. K ARUN KUMAR, Mr. RAJESH M, Mr. HARIDASS. R. attended FDP on ICT Academy – Product Design Engineering using Fusion 360 during 25-09-2023 - 29-09-2023.
- Dr. J.GANESH MURALI attended NPTEL- FDP on Technologies for Clean and Renewable Energy Production during July - September 2023
- Dr. S. VIMALANAND attended NPTEL- FDP on Mechanical Behavior of Polymers and Composites during July - October 2023.

- Dr. C. KRISHNARAJ, Dr. V. V. ARUN SANKAR, Mr. N SUBRAMANI, Mr. K ARUN KUMAR, Mr. RAJESH M, Mr. HARIDASS. R. attended NPTEL- FDP on Engineering Metrology during July - October 2023.
- Mr. MURALEEDHARAN P attended NPTEL- FDP on Public Speaking during July - October 2023.

WORKSHOPS:

- Mr. R.A. Hari Baalaaji, AP/MECH, attended a workshop on '**Cooling and Heat Load Estimation**', conducted by 'ISHRAE - Indian Society of Heating, Refrigerating and Air Conditioning Engineers, Coimbatore Chapter' on 05.08.2023.
- Mr. R.A. Hari Baalaaji, AP/MECH, attended a workshop on **Heat Load 'Calculations in Cold Storages'**, conducted by ISHRAE - Indian Society of Heating, Refrigerating and Air Conditioning Engineers, Coimbatore Chapter on 12.08.2023.
- Mr. R.A. Hari Baalaaji, AP/MECH, attended a workshop on '**Psychometrics**', conducted by ISHRAE - Indian Society of Heating, Refrigerating and Air Conditioning Engineers, Coimbatore Chapter on 19.08.2023.
- Mr. R.A. Hari Baalaaji, AP/MECH, attended a workshop on "MATLAB AND SIMULINK FOR ENGINEERS: AN INTERDISCIPLINARY APPROACH", conducted at PSG Institute of Technology and Applied Research, Coimbatore from October 12th to 14th.

INDUSTRY INTERACTION:

- Dr.C Krishnaraj and Dr.K.Ananthakumar visited Government I.T.I & Aqua Group, Coimbatore on 14.08.2023.
- Dr.Titus Thankachan and Mr.P.Muraleedharan visited Indoshell Cast Pvt Ltd, Coimbatore on 25.08.2023.
- Dr.C.Krishnaraj, Dr.Titus Thankachan, Dr.V.V.Arun Sankar, Mr.V.Kondusamy visited Janatics India Private Limited, Coimbatore on 11.09.2023.
- Dr.G.Padmanaban visited HNM Rubber Products, Coimbatore on 07.10.2023.
- Dr.C.Krishnaraj and Mr.P.Muraleedharan visited Aqua Group, Coptech, Coimbatore Wire & Cable Private Limited, Hi Acme Automations India Pvt Ltd, Coimbatore on 07.10.2023.

- Mr.K.Veeramanikandan and Mr.S.Chitharthan visited Hydro Prokav Pumps (India) Pvt Ltd, Coimbatore on 11.10.2023.
- Dr.J.Ganesh Murali, Mr. R.A.Hari Baalaaji and Mr.K.Arun Kumar visited GRUNDFOS Pumps, Chennai on 16.11.2023.
- Dr.J.Ganesh Murali, Mr. R.A.Hari Baalaaji and Mr.K.Arun Kumar visited ASHOK LEYLAND, Chennai on 17.11.2023.
- Dr V V Arun Sankar and Mr M Rajesh visited Dave AI, Bangalore on 17.11.2023.
- Dr C Krishnaraj and Mr P Muraleedharan visited Ashok Leyland – Unit II, Hosur on 18.11.2023.
- Dr C Krishnaraj and Mr P Muraleedharan visited Electrosolve India Private Limited and Wendt India Limited, Bangalore on 19.11.2023.



Dr.C.Krishnaraj, Dr.Titus Thankachan, Dr.V.V.Arun Sankar, Mr.V.Kondusamy visited Janatics India Private Limited, Coimbatore on 11.09.2023.



**Dr.J.Ganesh Murali, Mr. R.A.Hari Baalaaji and Mr.K.Arun Kumar visited
ASHOK LEYLAND, Chennai on 17.11.2023.**



**Dr.C.Krishnaraj and Mr.P.Muraleedharan visited Aqua Group, Coimbatore on
07.10.2023**

Institute Visit

- Dr.S.Vimal Anand visited Vellore Institute of Technology, Chennai on 09.10.2023.
- Dr.S.Vimal Anand visited Vellore Institute of technology, Vellore on 10.10.2023.

- Dr.J.Ganesh Murali, Mr. R.A.Hari Baalaaji and Mr.K.Arun Kumar visited IIT Madras Research Park and B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai during 16.11.2023 and 17.11.2023.
- Dr C Krishnaraj, Dr V V Arun Sankar, Mr M Rajesh and Mr P Muraleedharan visited Indian Institute of Science (IISc), Bangalore on 16.11.2023.
- Dr.K.Ananthakumar, Mr.S.Chitharthan and Mr.R.Sathish visited National Institute of Technology (NIT), Trichy during 30.11.2023 to 01.12.2023.



Dr.J.Ganesh Murali, Mr. R.A.Hari Baalaaji and Mr.K.Arun Kumar visited IIT Madras Research Park during 16.11.2023



Dr C Krishnaraj, Dr V V Arun Sankar, Mr M Rajesh and Mr P Muraleedharan visited Indian Institute of Science (IISc), Bangalore during 17.11.2023



Dr.S.Vimal Anand visited Vellore Institute of technology, Vellore on 10.10.2023

Dr.K.Ananthakumar, Mr.S.Chitharthan and Mr.R.Sathish visited NIT Trichy during 30.11.2023 to 01.12.2023

Faculty Publications – Books / Conferences / Journals

1. **Dr. Krishnaraj. C.**, Professor and Head, published a paper titled, "Optimization of Performance and Emission Characteristics of Biodiesel from Non-Edible Raphanus sativus Oil with Nano-Additive" at "Theoretical Foundations of Chemical Engineering", no.56, pg.1158-1178, 2023.
2. **Dr. Vimalanand. S.**, Associate Professor, published a paper titled, 'Vibration Analysis of Composite Laminated and Sandwich Conical Shell Structures: Numerical and Experimental Investigation' at "International Journal of

- Structural Stability and Dynamics". *International Journal of Structural Stability and Dynamics* 23(11), 2023.
3. **Dr. Titus Thankachan**, Associate Professor, published a paper titled, 'Friction Stir Processing Based Surface Modification of AZ31 magnesium alloys', at "Materials and Manufacturing Processes", Volume 38, Issue 11 pg. 1426-1435, 2023.
 4. **Mr. Subramani. N.**, Assistant Professor, published a paper titled, 'Parametric Evaluation of AA6063 TIG welded samples in taguchi Method, at AIP Conference Proceedings Investigation on input Constraints of 6 Series aluminium alloy TIG welded Samples' at 'AIP Conference Proceedings', Volume 2446, Issue 1, id.040006, 5 pp, 2023.
 5. **Dr. Arun Shankar. V. V.**, Assistant Professor, published a paper titled, 'Asbestos-Free Brake Lining Material Using Sea Shell' at 'Materiale Plastica', 59 (3), 2023, 100-108.
 6. **Mr. Muraleedharan. P**, Assistant Professor, published a paper titled, 'Six sigma - DMAIC method for choice of material in natural fibers in polymer composite based wall brick' at 'AIP Conference Proceedings', 2446, 150002 (2023).
 7. **Mr. Sathish R**, Assistant Professor, published a paper titled, 'Preparation and Characterization of Magneto Rheological Fluid for Vibration Damping', at 'AIP Conference Proceedings', 2527, 030006 (2023).
 8. **Mr. Hari Baalaji R.A.**, Assistant Professor, published a paper titled, 'Experimental Analysis on Machining Properties of Aluminium hybrid Composite materials', at 'SAE International', 2023-28-0540.
 9. **Mr. Veeramanikandan K**, Assistant Professor, published a paper titled, 'Analysis of marine Propeller using Computational Fluid Dynamics', at 'Materials Today Proceedings', Volume 68, Part 6, 2023, Pages 2375-2381.
 10. **Dr. Vimalanand Suthenthira Veerappa**. "Vibration Analysis of Composite Laminated and Sandwich Conical Shell Structures: Numerical and Experimental, Investigation. " *International Journal of Structural Stability and Dynamics*, no. 11 (2023): 2350120.
 11. Chokkalingam, Senthilkumar, **Krishnaraj Chandrasekaran**, Sivakumar Pandian, and Obadiah Asir. "Optimization of performance and emission characteristics of biodiesel from non-edible Raphanus sativus oil with nano-additive." *Theoretical Foundations of Chemical Engineering* 56, no. 6 (2023): 1158-1170.
 12. Gopalan, Venkatachalam, **Vimalanand Suthenthiraveerappa**, Loganathan Thozhuvur Govindaraman, Srinath Senthilvelan, and Chandrasekaran Vijiyashree Ramu. "Prediction Of Virtual Fatigue Parameters Of Fly Ash, Boron Nitride, And Sugarcane Fiber-Reinforced Epoxy Composite." *Composites: Mechanics, Computations, Applications: An International Journal* 14, no. 4 (2023).
 13. Aravinth, K., **R. Sathish**, T. Ramakrishnan, S. Balu Mahandiran, and S. Shiyam Sundhar. "Mechanical investigation of agave fiber reinforced composites based

- on fiber orientation, fiber length, and fiber volume fraction." *Materials Today: Proceedings* (2023).
14. Rafi, Shaik Mohammad, T. Satish Kumar, **Titus Thankachan**, and Chithirai Pon Selvan. "Synergistic Effect of FSP and TiB₂ on Mechanical and Tribological Behavior of AA2024 Surface Composites." *Journal of Tribology* 145, no. 11 (2023).
 15. Gopal R, **Ananthakumar K**, Arunnellaiappan T. Surface Properties of Ti-6Al-4V Alloy in Spark Machining with Equal Channel Angular Pressing: Processed Copper Electrode and Optimization of Process Parameters Using Response Surface Methodology. *Journal of Materials Engineering and Performance*. 2023 Aug 21:10.
 16. Raja P, Murugan V, Ravichandran S, Behera L, Mensah RA, Mani S, **Kasi A**, Balasubramanian KB, Sas G, Vahabi H, Das O. A Review of Sustainable Bio-Based Insulation Materials for Energy-Efficient Buildings. *Macromolecular Materials and Engineering*. 2023:2300086.
 17. Aravinth K, **Kondusamy V**, Ramakrishnan T, Tamilarasan VD, Rasu KK. Investigation of mechanical properties on agave plant fiber composite by experimental and numerical methods. *Materials Today: Proceedings*. 2023 Jul 17.
 18. Abdulrazak Shekhasaheb Bagawan, Birusanti Arun Babu, Dr. Prabhavathi N, **R. Masilamani**, *Advances in Computational Chemistry: Modelling and Simulation of Complex Chemical Systems*, Eur. Chem. Bull. 2023,12.
 19. **Rajesh M**, Kumaravel S, Kumaresan M. Multi objective optimization of MIG welding process parameters on AA 6061-T6 using Taguchi-GRA entropy method. In AIP Conference Proceedings 2023 Aug 7 (Vol. 2861, No. 1). AIP Publishing.
 20. Aravinth K, **Sathish R**, Ramakrishnan T, Mahandiran SB, Sundhar SS. Mechanical investigation of agave fiber reinforced composites based on fiber orientation, fiber length, and fiber volume fraction. *Materials Today: Proceedings*. 2023 May 29.
 21. Rafi SM, Satish Kumar T, **Thankachan T**, Selvan CP. Synergistic Effect of FSP and TiB₂ on Mechanical and Tribological Behavior of AA2024 Surface Composites. *Journal of Tribology*. 2023 Nov 1;145(11).
 22. Kumar TS, **Thankachan T**, Shalini S, Čep R, Kalita K. Microstructure, hardness and wear behavior of ZrC particle reinforced AZ31 surface composites synthesized via friction stir processing. *Scientific Reports*. 2023 Nov 16;13(1):20089.
 23. Vinoj, K., Raja, R., **Thankachan, T.** and Jannet, S., 2023. Role of process parameters in defining the characteristics of copper surface composites fabricated via friction stir processing. *Engineering Research Express*, 5(4), p.045035.
 24. Gunaraj L, Paul S, Mohammed J, Sudhagar E, **Thankachan T**. Optimization of Cutting Parameters for Hard Boring of AISI 4340 Steel Using Signal-to-Noise

Ratio, Grey Relation Analysis and Analysis of Variance. Periodica Polytechnica Mechanical Engineering. 2023 Sep 25;67(4):259-69.

25. Gopalan V, **Suthenthiraveerappa V**, Govindaraman LT, Senthilvelan S, Ramu CV. Prediction of Virtual Fatigue Parameters Of Fly Ash, Boron Nitride, And Sugarcane Fiber-Reinforced Epoxy Composite. Composites: Mechanics, Computations, Applications: An International Journal. 2023;14(4).
26. Chadha A, Sudhagar PE, Gunasegeran M, **Veerappa VS**. Vibration analysis of composite laminated and Sandwich conical Shell structures: numerical and experimental investigation. International Journal of Structural Stability and Dynamics. 2023 Jul 15;23(11):2350120.
27. Mathanbabu M, **Kondusamy V**, Ramalingam R, Chitraselvi S, Murugan M, Anbarasu M, Deepak S, Murugan K, Guruprasad B, Mohanraj CM. Failure Mode Effective Analysis of Suspension System for Heavy Load Vehicles. International Journal of Vehicle Structures and Systems. 2023 Dec 26;15(5).

Book Chapters:

1. Dr. C. Krishnaraj, Mr. R.A. Hari Baalaaji and Mr. R. Haridass published a Book Chapter titled, 'Optimization of Process Parameters Using Taguchi Approach in Shot Peened Ti6Al4V Alloy for Implants' on 'Technological Developments in Engineering, Management, Arts and Science', Dec-2023.

FACULTY OUTBOUND ACTIVITIES:

- On 29.6.2023, all the faculties of Mechanical Engineering had outbound activities at Thanima Farm Life, Thekkedesham, PO, Nallepilly, Kerala 678553.



Photos of Faculty outbound activities at Thanima Farm Life

STUDENTS CORNER

FUNDING RECEIVED

TNSCST Funded Project				
PRASANNA S	DESIGN AND FABRICATION OF STAIRCASE LIFT REGULATING THROUGH IOT	TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY	CHENNAI	27-10- 2023
AEGAPPANA A				
AJAYMADHAVAN I.K				
SURYA PRAKASH R				

Students Awards / Achievements/ Patents

- **1 Team (27 Students)** participated and **Won First Prize of Rs.20,000/-** under Design Category **in SUPRA SAEIDIA 2023.**

- | | |
|-----------------------|--|
| 1. Sanjai K | 14. Kasthuri Rangan A |
| 2. Bagavathi Raj B | 15. Vijay Nivedhan P |
| 3. Herson K | 16. Veeramanikandan M |
| 4. Pranav M | 17. Nithish S |
| 5. Dhinesh P | 18. Mithun Natarajan |
| 6. Rahulp L | 19. Darshan A |
| 7. Namachivaayam O | 20. Mugundhan J |
| 8. Hariharan M | 21. Kirubakaran P |
| 9. Selvin Jerakumar A | 22. Rizwankhan A |
| 10. Dhanush Kumar G | 23. Mownitharan M |
| 11. Krishna Moorthy L | 24. Harikarasudhan K |
| 12. Rajanithir | 25. Vishnu Prakash V |
| 13. Prasanna Kumart | |



- **MOHAMED AAKIL A** from III Mechanical – B won Gold Medal and awarded Best of the Best Award along with a cash prize of **RM500/-** for **Kaara Medicine Dispenser** at ARAU Creativity Expo, **Malaysia** during Aug' 19th and 20th 2023.



Kaara Medicine Dispenser won Gold Medal and awarded Best of the Best Award along with a cash prize of RM500/-.

- **Mr. A. Karthik Priyadarshan** and **Mr. R. Tamil selvan** from 3rd year Mechanical Engineering won Silver Medal for Tapioca Harvesting Machine at ARAU Creativity Expo, **Malaysia**.



Mr. A. Karthik Priyadarshan and Mr. R. Tamil Selvan won Silver Medal for Tapioca Harvesting Machine at Malaysia

- **Mr. A. Karthik Priyadarshan** participated in the Kaohsiung International Invention and Design EXPO (KIDE 2023) Taiwan from 30th Nov' 23 to 02nd Dec' 23 and won Gold Medal.



Mr. A. Karthik Priyadarshan participated in the Kaohsiung International Invention and Design EXPO (KIDE 2023) **Taiwan** and won Gold Medal.

- **Mr. Mohammed Aakil** from III Mechanical – B, won 3rd Prize conducted by IMP EXPO 2023 – Puducherry with cash prize of Rs.10,000/-.



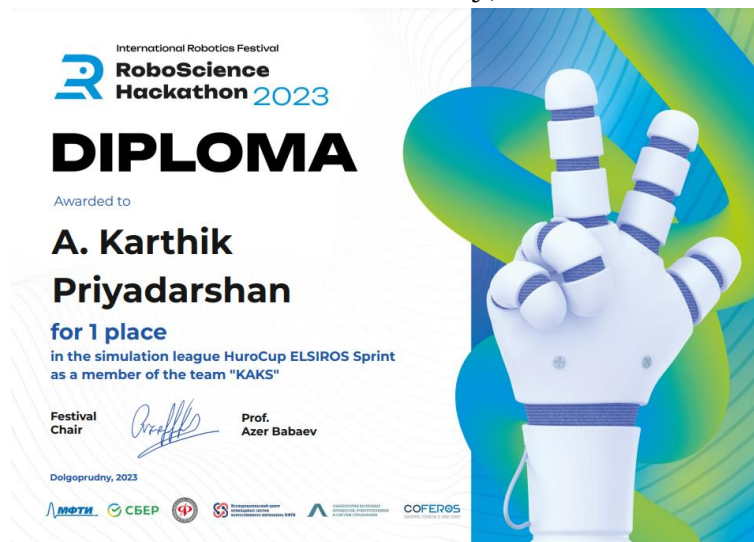
Mr. Mohammed Aakil from III Mechanical – B, won 3rd Prize conducted by IMP EXPO 2023 – Puducherry with cash prize of Rs.10,000/-

- **Mr. Yasodharan and Mr.Sri Pravin** of III Mechanical – A Section, won Third Prize on Cad Modeling Contest held at BANNARI AMMAN INSTITUTE OF TECHNOLOGY, Sathymangalam on 19.8.2023.



Mr. Yasodharan and Mr.Sri Pravin of III Mechanical – A Section, won Third Prize on Cad Modeling Contest held at BANNARI AMMAN INSTITUTE OF TECHNOLOGY, Sathymangalam on 19.8.2023.

- **Mr. A. Karthik Priyadarshan** won first prize in the Robo Science Hackathon conducted by National Taiwan Normal University, **Taiwan**.



Students Publications – Conferences / Journals

S.No	Name of the student	Title of the Paper/project	Title of Conference/Funded Project	Place	Date
1	Naveenkumar G	Topology Optimization on Hand Compression Cast Using By 3d Printing	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
2	Roshan P R				
3	Abdul Javith A				
4	Praveen Raj V				
5	Mahendran G	Aluminum-Infuse Metal Matrix Composite and Its Application	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
6	Naveenkumar M				
7	Rajarajan C				
8	Vijay Krishna G				
9	Alfred Kurian	Shape Recovery Characterization of Fiber Reinforced Smart Memory Polymer Honeycomb	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
10	Mothilal M				
11	Vinoth D				
12	Pethanasamy P				
13	Dhanush P	Corrosion And Tribological Behaviour of Magnesium Surface Metal Matrix Composites	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
14	Dinesh A				
15	Sri Nalla Dharmesh K				
16	Vibilash S				
17	Gokul E	Design And	Functional	Coimbatore	17-11-2023

18	Hariharan A	Fabrication of Exhaust Carbon Filter For Two Wheelers	Materials for Manufacturing and Aerospace Applications		
19	Raghul C				
20	Ruban R				
21	Janarthanan S	Investigation On Energy Absorbption Characteristics of Plant Fiber Reinforced Polymer Honeycomb Sandwich Composite	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
22	Karan N				
23	Kubendiran M				
24	Chakravarthi R				
25	Manoj Kumar K	Investigation On Energy Absorbption Characteristics of Plant Fiber Reinforced Polymer Honeycomb Sandwich Composite	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
26	Naveen Kumar S				
27	Praveen B				
28	Praven S				
29	Sekar R				
30	Logesh M	Design And Fabrication Of Drone Using 3-D Printer And Its Applications	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
31	Praveen R				
32	Shameer Shaajahan M				
33	Srinithish B				
34	Gunaseelan K	Synthesis And Characteristics Of Magnesium Bio Composites	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
35	Sujith S				
36	Sanjay S				
37	Akhil Raj K				
38	Ramprasath J	Mechanical And Metallurgical Studies Of Epoxy With Addition Of Arecanut Natural Fibre Material	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
39	Subashchandar G				
40	Surya Prakash R				
41	Mohamed Basith I				
42	Deva Moorthy S	Enhancing The Mechanical Characteristics Of Az31 Mg Alloy With Reinforcement (Cr(No3)3) Via Friction Stir Processing	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
43	Jeiya Ganesh V				
44	Mithun Kumar N				
45	James Infant Tintu				
46	Abdul Rahim I	Investigating The	Functional	Coimbatore	17-11-2023

47	Karthikeyan M	Properties And Characteristics Of Carbon Fiber Reinforced With Nylon To Enhance The Plate	Materials for Manufacturing and Aerospace Applications		
48	Vishnuprakash G S				
49	Sri Selvaganapathi S				
50	Abisak S	Fabrication Of Coir Fibre Composties For Roofing Application	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
51	Nithish M				
52	Santhosh K P				
53	Lowgesh P V				
54	Murali Jayanth P	Mechanical Characteristics of Magneto Rheological Elastomer Coated Plant Fiber Reinforced Polymer Honey Comb Sandwich Composite	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
55	Sakthivel R				
56	Sarveshwaran V				
57	Thivagar S				
58	Angu Raja K	Design And Development Of Pick And Place Robot Remotely Controlled By Android	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
59	Nijanthan N				
60	Vetrivel K				
61	Prasanna S				
62	Guruganesh S	Development Of Fibre Reinforced Smart Memory Polymer Composites For Self Deployable Structures	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
63	Pradeepan R				
64	Krishna Kumar K				
65	Manojkumar S				
66	Gowtham M	Optimizing The Wear Characteristics Of Magnesium Based Surface Composites	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
67	Keshavan S				
68	Kuselan S				
69	Ajay Madhavan I K				
70	Aakash G	Investigation On Energy Absorbption Characteristics Of Plant Fiber Reinforced Polymer Honeycomb Sandwich Composite	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
71	Jevanesh R				
72	Vijay M				
73	Hariharan A				
74	Pradeep G				

75	Manikandan S	Reinforcing Titanium Nitride With Magnesium Through Friction Stir Process To Optimize Its Mechanical Properties	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
76	Nallasankar C				
77	Vinith M				
78	Yeswanth G				
79	Nelsan Raj M	Microstructural And Mechanical Characteristics Of Magnesium Based Surface Composites	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
80	Pradeep S				
81	Velayutham I				
82	Mathana Rahul B				
83	Balakumar S	Experimental And Numerical Investigation On The Free Vibration Characteristics Of Magnetorheological Elastomer Coated Plant Fiber Reinforced Polymer Honeycomb Sandwich Beam	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
84	Mugesh Kumar B				
85	Ragu M				
86	Allantheresh P				
87	Jeevaraj S	Tribological Behavior And Mechanical Characteristics Of Al6061 Alloy With Al ₂ O ₃ And Mwcnt Reinforcement Nanoparticles (Hybrid Nano Carbon Tube)	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
88	Naveenkumar J S				
89	Santhoshkumar V				
90	Saravanan P				
91	Abel Mathew	Design And Fabrication Of Sae Car Exhaust System	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
92	Nithish S S				
93	Stalin L				
94	Sudharshan M				
95	Dhilip Kumar S K	Optimizing The Wedm Process Parameters For Magnesium Based Surface Composites By Machine Learning Techniques	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
96	Prasanth M				
97	Raman N				
98	Sabarish S				

99	Dharun G V	Implementation Of Six Sigma-Dmaic Methodology In Cnc Machining Process	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
100	Kabilan U				
101	Aegappan A				
102	Hariharan R				
103	Dhanushkumar S	Investigation Of Mechanical Properties Of Ti6a14v Using Ceramic Shots In Shot Peening Process For Medical Joints Application	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
104	Premkumar T				
105	Kiranmali B R				
106	Shyam Sundar T				
107	Ajay V	Energy Conversion From Agri Waste	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
108	Koushik G				
109	Ranjith G				
110	Yokeswaranath K				
111	Dinesh R	Determination For Wear Rate And Impact Strength Of Titanium Nitride Reinforced Magnesium Plates	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
112	Lokesh R				
113	Ragul R				
114	Mukilan B				
115	Gokul V	Deposition And Characterization Of Nano Coating On Cutting Tool	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
116	Madhishraj R				
117	Balamurugan C				
118	Jobnigil P				
119	Hamish G Hugh	Experimental Investigation Of Mechanical And Tribological Characteristics Of Aluminium Metal Matrix Composites	Functional Materials for Manufacturing and Aerospace Applications	Coimbatore	17-11-2023
120	Mohan Raj N				
121	Selvendran B				
122	Anwartheen J				
TamilNadu Funded Project					
123	Prasanna S	Design And Fabrication Of Staircase Lift Regulating Through IoT	TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY	CHENNAI	27-10-2023
124	Aegappana A				
124	Ajaymadhavan I.K				
125	Surya Prakash R				

INTERNATIONAL INTERNSHIP:

- Mr. A. Karthik Priyadarshan from III Mechanical – A Section attended 'Internship in Robotics Lab at National Taiwan Normal University, Taiwan' from 04th to 07th December 2023.



FACULTY DEVELOPMENT PROGRAM:

- 9 Students** attended **FDP** conducted by **NITTTR, Chennai** and **RKMSH Vivekananda BPCL Skill Development Centre, Chennai** during 28th Aug' to 1st Sep' 2023.

1. Sudalaiandi S	6. Prabakaran S
2. Abdul Alim K.M	7. Madheshwar R
3. Subresh Gowrin S	8. Dheena S
4. Someshwar B	9. Sathyadevan
5. Kasthuri Rangan A	
- 8 Students** attended **FDP** conducted by **NITTTR, Chennai** on the topic **Innovative Applications and Use Cases of UAVs.**

1. Arun E	5. Rohith V
2. Giriprasanna S	6. Chandru K
3. Sripravin I	7. Dinesh B
4. Dhatchana Moorthi K	8. Yasotharan
- 13 Students** Attended **FDP** conducted by **NITTTR, Chennai** on the topic **Industrial Applications of UAVs from 6th to 10th Nov' 23.**

1. Benial	8. Charan Kumar
2. Dominic Richard	9. Logesh Rm
3. Ganesh	10. Pradeep S
4. Akash David	11. Solomon Daniel
5. Akash	12. Jayaragavan
6. Dhanajeyan	13. Giriprasanna S
7. Adithya	

- **4 Students** attended 6-day Online Student Workshop **Introductory UHV** conducted by **AICTE**.

1. Karthikeyan M
2. Kirubakaran P
3. Rizwankhan A
4. Sanjay D

WORKSHOPS:

S.No	Name of the student	Title	Place	Date
1	Viknesh S	Introduction To Energy Auditing	PSG INSTITUTE OF TECHNOLOGY & APPLIED RESEARCH	25-8-2023 to 26-8-2023
2	Mathan Kumar M			
3	Pradeep S			
4	Dhatchana Moorthi K			
5	Dinesh Ps			
6	Sudalaiandi S	Industrial Training In Mechanical Engineering	NITTTR	28-8-2023 to 01-9-2023
7	Abdul Alim K.M			
8	Subresh Gowrin S			
9	Someshwar B			
10	Pradeep S	Open Foam Essentials	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	22-9-2023 to 23-9-2023
11	Deva Moorthy S	International Astronomical Search Collaboration	NASA - ONLINE	8-9-2023 to 4-10-2023
12	Kasthuri Rangan A	Industrial Training in Mechanical Engineering	NITTTR	28-8-2023 to 01-9-2023
13	Prabakaran S			
14	Madheshwar R			
15	Arun E	Innovative Applications and Use Cases Of Uav	NITTTR	25-9-2023 to 30-9-2023
16	Sanjay K	Interfacing Mechanical Engineering With Artificial Intelligence and Machine Learning	SNS COLLEGE OF TECHNOLOGY	10-10-2023 to 11-10-2023
17	Aksai M			
18	Sabarish P			
19	Vignesh Ap			
20	Mathan Kumar M	Cooling A Heat Load Estimation	ISHRAE	08-05-2023

DESIGN CONTEST:

S.No	Name of the student	Title	Place	Date
1	YASOTHARAN M	NATIONAL ELECTRIC TRACTOR DESIGN CHAMPIONSHIP (NETDC-23)	BANNARI AMMAN INSTITUTE OF TECHNOLOGY	18-8-2023 to 19-8-2023
2	SRI PRAVIN J			
3	CHANDRU K			
4	SRI PRAVIN J	CAD MODELING	SRI SHAKTHI INSTITUTE OF ENGG & TECH	11-9-20223
5	KASTHURI RANGAN A	SUPRA SAEINDIA STUDENT FORMULA-2023	SAE INDIA	10-7-2023 To 13-7-2023
6	MUGUNDHAN J			
7	PRANAV M			
8	PRASANNA KUMAR T			
9	MITHUN NATARAJAN			
10	HARIKARASUDHAN			
11	VEERAMANIKANDAN			
12	VIJAY NIVEDHAN P			
13	PRANAV M	UG/NX CAD MODELING AND DRAFTING	SAE INDIA	7-10-2023 to 8-10-2023
14	GOPIKRISHNAN C	MESHING TECHNIQUES USING HYPERMESH	SAE INDIA	5-10-2023 to 6-10-2023
15	YASOTHARAN M	DESIGN AND PRODUCT DEVELOPMENT ON E – TRACTOR	BANNARI AMMAN INSTITUTE OF TECHNOLOGY	11/08/2023 & 12/08/2023
16	PRADEEP S	DESIGN AND PRODUCT DEVELOPMENT ON E – TRACTOR	BANNARI AMMAN INSTITUTE OF TECHNOLOGY	11/08/2023 & 12/08/2023
17	SRI PRAVIN J	NATIONAL ELECTRIC TRACTOR DESIGN CHAMPIONSHIP	BANNARI AMMAN INSTITUTE OF TECHNOLOGY	18/08/2023 & 19/08/2023
18	VIDYADHARAN G	NATIONAL ELECTRIC TRACTOR DESIGN CHAMPIONSHIP	BANNARI AMMAN INSTITUTE OF TECHNOLOGY	18/08/2023 & 19/08/2023
19	YASOTHARAN M	NATIONAL ELECTRIC TRACTOR DESIGN CHAMPIONSHIP	BANNARI AMMAN INSTITUTE OF TECHNOLOGY	18/08/2023 & 19/08/2023
20	PRADEEP S	NATIONAL ELECTRIC TRACTOR DESIGN	BANNARI AMMAN INSTITUTE OF TECHNOLOGY	18/08/2023 & 19/08/2023

		CHAMPIONSHIP		
21	CHANDRU K	NATIONAL ELECTRIC TRACTOR DESIGN CHAMPIONSHIP	BANNARI AMMAN INSTITUTE OF TECHNOLOGY	18/08/2023 & 19/08/2023
22	HERSON K	UG/NX CAD MODELLING AND DRAFTING	SAE INDIA	21 /08/2023 to 26/08/2023
23	MOWNITHARAN M S	UG/NX CAD MODELLING AND DRAFTING	SAE INDIA	21 /08/2023 to 26/08/2023
24	VEERAMANIKANDAN M	UG/NX CAD MODELLING AND DRAFTING	SAE INDIA	21 /08/2023 to 26/08/2023
25	PRANAV M	UG/NX CAD MODELLING AND DRAFTING	SAE INDIA	21 /08/2023 to 26/08/2023
26	AKSAI M	UG/NX CAD MODELLING AND DRAFTING	SAE INDIA	21 /08/2023 to 26/08/2023
27	MUGUNDHAN J	UG/NX CAD MODELLING AND DRAFTING	SAE INDIA	21 /08/2023 to 26/08/2023
28	SABARISH P	UG/NX CAD MODELLING AND DRAFTING	SAE INDIA	21 /08/2023 to 26/08/2023
29	HARIHARAN M	UG/NX CAD MODELLING AND DRAFTING	SAE INDIA	21 /08/2023 to 26/08/2023
30	SANJAI K	UG/NX CAD MODELLING AND DRAFTING	SAE INDIA	21 /08/2023 to 26/08/2023
31	SELVIN JEBAKUMAR A	UG/NX CAD MODELLING AND DRAFTING	SAE INDIA	21 /08/2023 to 26/08/2023
32	BAGAVATHI RAJ B S	UG/NX CAD MODELLING AND DRAFTING	SAE INDIA	21 /08/2023 to 26/08/2023
33	DHANUSH KUMAR G	UG/NX CAD MODELLING AND DRAFTING	SAE INDIA	21 /08/2023 to 26/08/2023
34	KRISHNA MOORTHY L	UG/NX CAD MODELLING AND DRAFTING	SAE INDIA	21 /08/2023 to 26/08/2023
35	RAHUL P L	UG/NX CAD MODELLING AND DRAFTING	SAE INDIA	21 /08/2023 to 26/08/2023
36	RAJANITHI R	UG/NX CAD	SAE INDIA	21 /08/2023

		MODELLING AND DRAFTING		to 26/08/2023
37	VIGNESH A P	UG/NX CAD MODELLING AND DRAFTING	SAE INDIA	17/07/2023 to 22/07/2023
38	GUHAN S	UG/NX CAD MODELLING AND DRAFTING	SAE INDIA	17/07/2023 to 22/07/2023
39	SANJAY K	UG/NX CAD MODELLING AND DRAFTING	SAE INDIA	17/07/2023 to 22/07/2023

SYMPOSIUMS:

S.No	Name of the student	Title	Date
1	MOHAMED AAKIL	NATIONAL EXPO CUM CONFERENCE IMPEXPO 2023	5-1-2023 to 6-10-2023
2	DEVA MOORTHY S	TAMILNADU ASTRO SCIENCE SYMPOSIUM	29-6-2023 to 1-7-2023
3	PRANAV M	UG/NX CAD MODELING AND DRAFTING	21-8-2023 to 26- 8-2023
4	VEERAMANIKAN DAN M		
5	AKSAI M		
6	SABARISH P		
7	SANJAYK		
8	VIGNESH AP		

EVENTS ORGANIZED

S No	Name of the Workshops/Seminars	No of Participants	Duration
1	Workshop on Design and Fabrication of Electric Two Wheelers	56	08.07.2023
2	Workshop on How to Create a Startup Opportunities and Challenges	63	15.07.2023
3	Workshop on An Insight into the Career Opportunities in Mechanical Engineering to KCEians by KCEians	34	22.07.2023
4	Awareness program on How to Apply and Crack IIRS - ISRO (E - Class)	22	03.08.2023

5	Workshop on Career Opportunities through GATE	43	04.08.2023
6	Seminar on Employment and Entrepreneurship Opportunities in Foundries	60	04.08.2023
7	Lean Startup and Minimum Viable Products/Business	40	10.08.2023
8	Workshop on Startup Basics: How to get Started	107	23.08.2023
9	Workshop on Electric Vehicle Design and Fabrication Techniques	222	26.08.2023
10	Hands on Training program on ECU Tuning of Race cars	20	21.09.2023
11	Faculty Training Program on Latest Technological Advancements in Automotive Industries	15	21.09.2023
12	Workshop on "Casting Simulation: Bridging the gap between Design and Manufacturing"	85	23.09.2023
13	Workshop on "Mini bike design and Fabrication Techniques"	133	06.10.2023
14	TNSCST Sponsored National level project model display contest MEXHIBIT - 2023	21	10.10.2023
15	Workshop on "Introduction to Robotic Automations"	30	16.10.2023
16	Workshop on "An Insight into the Career Opportunities in Mechanical Engineering to KCEians by KCEians"	63	28.10.2023
17	One day national level Hands on Training in "Additive Manufacturing for Non-Teaching Staffs"	18	16.12.2023
18	One day Seminar on "Design of Electric Vehicles"	36	18.12.2023

KARPAGAM COLLEGE OF ENGINEERING
Approved by AICTE and Affiliated to Anna University
Autonomous (Accredited by NAAC, with 'B' grade)
An ISO 9001:2015 and ISO 14001:2015 Certified Institution

DEPARTMENT OF MECHANICAL ENGINEERING
is organizing
An Insight into
Mechanical Engineering to KCEians by KCEians

RESOURCE PERSONS



Dr. V. Boopathi Sabareesh
Proprietor
Sekarvel Gate Academy, Pollachi
(Class of 2004)

TOPIC:
FLUID MECHANICS AND ITS INDUSTRIAL APPLICATIONS



Mr. N. Kaviyarasu
Senior Design Engineer
Taark Electric Vehicles and Equipments Pvt. Ltd.
Coimbatore
(Class of 2019)

TOPIC:
MANUFACTURING PROCESSES - AN OVERVIEW

Coordinator: Mr. K. Veeramanikandan AP / ME
Convener: Dr. C. Krishnaraj HoD/Mech
Patron: Dr. V. Kumar Chinnaiyan Principal Karpagam College of Engineering

28th | OCT. 2023 | Time : 09.00am to 04.00pm
SATURDAY | Venue : CAD LAB | www.kce.ac.in



Workshop on An Insight into the Career Opportunities in Mechanical Engineering to KCEians by KCEians on October 28th 2023.

INDUSTRIAL VISIT / IN-PLANT TRAINING

- Students of III-year Mechanical Engineering A & B Section, visited Karnataka Milk Federation & Nisarga Coffee Curing works at Karnataka during 11th and 12th August 2023
- Students of III-year Mechanical Engineering A & B Section, visited Sri Saravana Engineering Works, Coimbatore during 20th and 21st September 2023.
- Students of III-year Mechanical Engineering B Section, visited Anal Alloys, Coimbatore on 21st September 2023.



Students of III-year Mechanical Engineering A & B Section (2021 - 25), visited Karnataka Milk Federation & Nisarga Coffee Curing works at Karnataka during 11th and 12th August 2023



Students of III-year Mechanical Engineering A & B Section (2021 - 25), visited Sri Saravana Engineering Works, Coimbatore during 20th and 21st September 2023.

PLACEMENT

S.NO	ROLL NO	NAME	COMPANY
1.	20M101	AAKASH G	Sustainere Energy Conservators, Coimbatore
2.	20M102	ABEL MATHEW	Kochi Castings & Mfg Pvt.Ltd, Kochi
3.	20M105	BALAKUMAR S	Quick Solar, Coimbatore
4.	20M107	DHANUSHKUMAR S	Krishnaveni Carbon Products, Coimbatore
5.	20M108	DHARUN G V	Electrosolve, Bengaluru
6.	20M109	DHILIP KUMAR S K	Krishnaveni Carbon Products, Coimbatore
7.	20M110	DINESH R	Coptech, Coimbatore/ Gestamp Automotive, Chennai
8.	20M111	GOKUL V	Anantham Industries, Coimbatore
9.	20M112	GOWTHAM M	Anantham Industries, Coimbatore
10.	20M113	GURUGANESH S	Vimalan Engineering Works, Coimbatore
11.	20M114	HAMISH G HUGH	Hema Engineering Works , Coimbatore
12.	20M115	JEEVARAJ S	Donracks, Chennai
13.	20M116	JEVANESH R	Coptech, Coimbatore
14.	20M117	KABILAN U	Krishnaveni Carbon Products, Coimbatore
15.	20M119	KOUSHIK G	Krishnaveni Carbon Products, Coimbatore /

			Coptech, Coimbatore
16.	20M120	KUSELAN S	Donracks, Chennai
17.	20M121	LOKESH R	Krishnaveni Carbon Products, Coimbatore
18.	20M122	MADHISHRAJ R	Gestamp Automotive, Chennai
19.	20M124	MOHAN RAJ N	Schuf Speciality Valves Private Limited, Coimbatore
20.	20M126	NALLASANKAR C	Coptech, Coimbatore
21.	20M127	NAVEENKUMAR J S	Pheonix Impex, Coimbatore
22.	20M131	PRADEEPAN R	Coptech, Coimbatore
23.	20M132	PRASANTH M	Krishnaveni Carbon Products, Coimbatore
24.	20M134	PREMKUMAR T	Krishnaveni Carbon Products, Coimbatore
25.	20M136	RAGUL R	Lakshmi Valves, Chennai / Gestamp Automotive, Chennai
26.	20M137	RAMAN N	Lakshmi Valves, Chennai
27.	20M138	RANJITH G	Gestamp Automotive, Chennai
28.	20M139	SABARISH S	Lakshmi Valves, Chennai
29.	20M141	SARAVANAN P	Coptech, Coimbatore
30.	20M142	SELVENDRAN B	Donracks, Chennai
31.	20M144	STALIN L	Donracks, Chennai
32.	20M147	VIJAY M	Krishnaveni Carbon Products, Coimbatore
33.	20M202	ABISAK S	Donracks, Chennai
34.	20M203	ALFRED KURIAN	Kochi Castings & Mfg Pvt.Ltd, Kochi
35.	20M204	ANGU RAJA K	Gestamp Automotive, Chennai
36.	20M214	JEIYA GANESH V	Gestamp Automotive, Chennai
37.	20M217	KARAN N	Gestamp Automotive, Chennai
38.	20M221	MAHENDRAN G	Donracks, Chennai
39.	20M222	MANOJ KUMAR K	Krishnaveni Carbon Products, Coimbatore
40.	20M224	MITHUN KUMAR N	Donracks, Chennai
41.	20M226	MURALI JAYANTH P	Gestamp Automotive, Chennai
42.	20M227	NAVEEN KUMAR S	Kone Elevators, Chennai
43.	20M229	NAVEENKUMAR M	Krishnaveni Carbon Products, Coimbatore
44.	20M231	NITHISH M	Donracks, Chennai
45.	20M233	PRAVEEN B	Anantham Industries, Coimbatore
46.	20M236	RAJARAJAN C	Revathy Equipments Pvt Ltd, Coimbatore, Coimbatore
47.	20M237	RAMPRASATH J	Lakshmi Valves, Chennai
48.	20M240	SAKTHIVEL R	Gestamp Automotive, Chennai
49.	20M241	SANTHOSH K P	Donracks, Chennai
50.	20M242	SARVESHWARAN V	Di Micro Cloud Technologies, Chennai
51.	20M243	SHAMEER	Tech Mesh Engineering Private Limited,

		SHAAJAHAN M	Coimbatore
52.	20M245	SUJITH S	Kone Elevators, Chennai
53.	20M249	VISHNUPRAKASH G S	Powersoft Technologies, Chennai
54.	21M503	AJAY MADHAVAN I K	Gestamp Automotive, Chennai
55.	21M505	ANWARTHEEN J	Anantham Industries, Coimbatore
56.	21M506	BAIAMURUGAN C	Donracks, Chennai
57.	21M507	HARIHARAN A	Hnm Rubber Products, Coimbatore
58.	21M508	HARIHARAN R	Wibrant, Chennai
59.	21M510	KIRAN MALI B R	Sinnis Building Solutions, Kothagiri
60.	21M513	MATHANA RAHUL B	Eppinger Tooling Asia Pvt Ltd, Coimbatore
61.	21M514	MUKILAN B	Smart Dimensions Engineering Services, Coimbatore
62.	21M515	PRADEEP G	Vimalan Engineering Works, Coimbatore
63.	21M517	SHYAM SUNDAR T	Unicast Alloys Private Limited
64.	21M518	SUDHARSAN M	Daco Engineering
65.	21M519	YOKESWARANATH K	Coptech, Coimbatore
66.	21M602	AKHIL RAJ K	Revathy Equipments Pvt Ltd, Coimbatore
67.	21M604	JAMES INFANT TINTU	Donracks, Chennai
68.	21M605	KARTHIKEYAN M	Jai Industries, Coimbatore
69.	21M608	PRASANNA S	Zogx, Coimbatore
70.	21M610	RUBAN R	Donracks, Chennai
71.	21M612	SEKAR R	Revathy Equipments Pvt Ltd, Coimbatore
72.	21M613	SRI NALLA DHARMESH K	Donracks, Chennai
73.	21M616	THIVAGARAN S	Krishnaveni Carbon Products, Coimbatore
74.	21M618	VIJAY KRISHNA G	Sri Laxmi Industries, Coimbatore

Higher Studies

S.NO	NAME	COLLEGE NAME	DEGREE
1.	SANDEEPKUMAR SIVAKUMAR	NATIONAL KOUSHIUNG UNIVERSITY OF SCIENCE AND TECHNOLOGY	M.S
2.	DEEPAK SHARMA	LOYALIST COLLEGE	M.S
3.	SUNDAR BALAJI	UNIVERSITY OF KAISERSLAUTERN	M.S

4.	HARISH KUMAR N	VELLORE INSTITUTE OF TECHNOLOGY	Ph.D
5.	POOVARSAN PRABHAKARAN	SAMUNDRA INSTITUTE OF MARITIME STUDIES	G.M.E
6.	ABILASH E M	AMRITA VISHWA VIDYAPEETHAM	MBA
7.	RAGUL RAGAVENDRA	KAUNO TECHNOLOGY UNIVERSITY	ME
8.	PRAVEEN KUMAR S	JAIN UNIVERSITY	MBA
9.	SANKARAMOORTHY S	PONDICHERY UNIVERSITY	MBA
10.	PRAVIN CHANDRU A	PSG COLLEGE OF TECHNOLOGY	ME
11.	KRISHNA KANTH P	INDIAN INSTITUTE OF MANAGEMENT KOZHICKODE	MBA
12.	MUKUNTHAN	UNIVERSITY OF LEICESTER	INTERNATIONAL BUSINESS MSc
13.	HARISH SOUNDARARAJAN	LOYALIST COLLEGE	M.S
14.	SUBASH BASKAR	DUBLIN BUSINESS SCHOOL	M.S

ENTREPRENEURSHIP:

List of students who are entrepreneurs

S.NO	NAME OF THE STUDENT	NAME OF THE COMPANY	CIN NUMBER / REG. NUMBER
1.	SRINITHI M.S	HERBLY'S RIITUALSS	U74999TZ2021OPC037483
2.	PRABHU	CAREER ACADEMIA CONSULTANCY	Reg no: 18/2022, Pondicerry
3.	MUHAMED AAKIL. A	TUPAC AUTOMATION PVT.LTD	U27900TZ2023PTC028468
4.	RUBAGEERTHAN.R	MEENAKSHI JEWELLERS	33ABPPV9834R1ZD
5.	MOHAMED THOUFEEK	ROYAL TIMBER	33AAXFR6608Q1Z8
6.	RAMANATHAN.K	RMK APPUCHI MARACHEKKU OIL MILL	33CKOPR3725H1ZW
7.	REVANTH M A	APPAREL LINES	33AOTPG458Q1Z6

STARTUPS:

- 3 Students from 3rd Year started - TUPAC AUTOMATION with CIN No: U27900TZ2023PTC028468.



TUPAC AUTOMATION REGISTRATION

- 4 students from 2nd Year got Startup funding NGI NewGen IEDC under National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of Science and Technology for Rs.1,50,000/-*.

NEHRU GROUP OF INSTITUTIONS
NEW GENERATION INNOVATION AND ENTREPRENEURSHIP
DEVELOPMENT CENTRE (NGI NewGen IEDC)
(Supported by NSTEDB, Department of Science and Technology, Govt. of India)
Dr. A.P.J. Abdul Kalam Block, Thirumalayampalayam, Coimbatore 641-105, Tamil Nadu

NEW GEN IEDC PROJECTS : 2023 - 2024

<p>1 Toddy Palm Separator Dhaanish Ahmed Institute of Technology</p> <p>Nizsar Hussain M, Mohamed Shameel J, Praveen V, Gnana Marthia Kumar S, Dr.K.G.Parthiban (Mentor), Dr. C. Selvamurugan (Mentor)</p>	<p>5 Wifi Pick - Up Robot to Assist the Elderly or Individuals with Limited Mobility Narayanaaguru College of Engineering</p> <p>Gokul Prasath G.R, Gopi Krishnan, Gokul S, Mr. Prakash J. P (Mentor)</p>
<p>2 TECTOVIA Gobi Arts and Science College</p> <p>Arunraj C, Venkatesh R, Purushothaman V, Kanishka S, Dr. M. Ramalingam (Mentor)</p>	<p>6 Electric Vehicle Battery Swapping Machine Kathir College of Engineering</p> <p>Nirmalkumar S, Hariharan B, Baladwarakesh S, Elavarasi K, Dr. L. Nagarajan (Mentor)</p>
<p>3 Automated Rotavator Karpagam College of Engineering</p> <p>Sri Vishnu Vardhan V, Anesh Kingslee Raj A, Logeshwaran T, Balaji S, Dr. K. Sheela Sobana Rani (Mentor)</p>	<p>7 Drips Indicator Nazareth College of Arts and Science</p> <p>Isaac Joel R, Muthulakshmi M, Abirami S (Mentor)</p>
<p>4 Wireless Electric Vehicle Charging System With Dynamic Energy Routing for Optimized Range and Battery Life Kumaraguru College of Technology</p> <p>Manimaran T N, Kumutha S, HaliniPriya D, Monish R V, Dr. N. Prakash (Mentor)</p>	<p>8 NFT Shoes for Health and Wealth Study World College of Engineering</p> <p>B. Jyothi Prakash, M. Pavan, C. H. Sathish Paul, Dr. S. Kannadhasan (Mentor)</p>

C O N G R A T U L A T I O N S