



Kongunadu
College of Engineering & Technology
[Autonomous]



(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai, Accredited by NBA(CSE,ECE,EEE), Accredited by NAAC with B++ Grade, Recognized by UGC with 2(f) & 12(B) and ISO 9001:2015 Certified Institution)

Namakkal - Trichy Main Road, Tholurpatti (P.O.), Thottiyam (TK), Trichy (Dt.) - 621 215.

DEPARTMENT OF MECHANICAL ENGINEERING



MECHCLUSTER - NEWSLETTER

★ Chairman's Message:



As the Chairman of Kongunadu Educational Institutions, I look back with enormous sense of pride, the amazing progress that our institution has made within a short span of time. This would not have been possible without the invaluable support and contribution

of the faculties, students, parents and my well-wishers. I strongly believe that serious, sincere and systematic services, surely secure supreme success. I feel very happy about the "MECHCLUSTER Newsletter" which is fashioned by the MECHANICAL students of our college, which includes the Department activities and achievements. I congratulate our students and wish them all the best.

★ Principal's Message:



Education is important for every individual in a nation. Technical Education plays a vital role in the development of any country. I feel happy about the "MECHCLUSTER Newsletter" which is released by the students in MECHANICAL Engineering Department. This is having more content

about the achievements of students and faculty. I wish them all the best.

★ Editorial Board :

★ Chief Editors :

- ♦ Dr. D.Jagadeesh, HoD/MECH
- ♦ Dr. A.Nithya, ASP/MECH

★ Executive Editors :

- ♦ Mr. C.DineshBabu, AP/MECH
- ♦ Mr. M.Praveen, AP/Mech

★ Student Editors :

- ♦ Mr. D.Dinesh Babu - Final MECH
- ♦ Mr. A.Franklin Michael Raj - Final MECH
- ♦ Mr. X.Michael Richard- Third MECH
- ♦ Ms. M.Mohan Raj - Third MECH
- ♦ Mr. S.Myvizhi raja - Second MECH
- ♦ Mr. P.Prem kumar - Second MECH

★ Contents:

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★ College Vision/Mission

★ Vision

"To become an internationally renowned Institution in technical education, research and development, by transforming the students into competent professionals with leadership skills and ethical values."

★ Mission

- ✦ Providing the best resources and Infrastructure.
- ✦ Creating Learner centric Environment and continuous Learning.
- ✦ Promoting Effective Links with Intellectuals and Industries.
- ✦ Enriching Employability and Entrepreneurial Skills.
- ✦ Adapting to Changes for Sustainable Development.

★ Department Vision/Mission

★ Vision

To endeavour the excellence in Mechanical Engineering field globally by producing competent and confident graduates to face the future challenges.

★ Mission

✦ Provide transformative education to students and improving their skills to face the global challenges in Mechanical and Allied Engineering.

✦ Nurture innovation, attitude, creativity, core competency and serve the society through requisite infrastructure and environment.

✦ Inculcate real world challenges, emerging technologies and endeavour the students to become entrepreneurs or employable.

★ Program Educational Objectives (PEO's)

✦ **PEO I** : Graduates shall excel in the field of design, thermal, materials and manufacturing, as successful engineers or researchers or as entrepreneurs.

✦ **PEO II** : Graduates will analyze problems, design solutions and develop products as a team member in advanced industrial projects.

✦ **PEO III** : Graduates shall have professional ethics, team spirit, life-long learning, good oral and written communication skills and adopt corporate culture, core values and leadership skills.

★ Program Specific Outcomes (PSOs)

✦ **PSO 1 : Professional skills** : Students shall understand, analyze, design and develop integrated equipment, thermal devices and composite components.

✦ **PSO 2 : Competency** : Students shall qualify at the State, National and International level competitive examination for employment, higher studies and research.

★ Program Outcomes (POs)

Engineering Graduates will be able to :

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

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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.

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

9. Individual and team work : Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. 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.

11. 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.

12. 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.

★ Department Activities

★ Programme organized by department

National Level Conference on "Challenges and Opportunities for Mechanical Engineers (COME-2021)" was conducted on 27th March 2021. The resource person was Dr.K.Jayabal, Associate Professor, Department of Mechanical Engineering, IITDM, Kancheepuram.

★ Consultancy Work

Project Titled "3D modeling and preparation of Fabrication drawings of typical guide vane and internal Truss and typical Straight Duct for NTPC, Vallur 3x 500 MW FGD" was funded an amount of Rs 2,00,000 and the project duration was 20th January 2021 to 15th April 2021.

★ Workshop

Hands on Training- MECHA Drone was conducted from 18th March 2021 to 20th March 2021. The chief guests were Mr.C.S Karunakaran, M.Tech., Co-Founder & Former Secretary General, IAAA Foundation, Chennai, Mr.S.Kishore, Director, IAAA Foundation, Chennai. Mr.G.Dinesh Kumar, Head-R&D, IAAAFoundation, Chennai and Mr.J.Janarthanan, Freelance UAV Pilot, Chennai.

Workshop on "Engineering Design" was conducted on 13th March 2021. The resource person was Mr.S.Velumurugan, Assistant General Manager, Ashok Leyland Defence Vehicle, Chennai.

★ Webinars-

Webinar on "Design of components/parts" was conducted on 24th May 2021. The resource person was Er.M.Arunprasath, Lead Engineer, HCL Technologies Ltd, Chennai.

Motivational program on "Future of Mechanical Engineering" in the new normal World was conducted on 14th May 2021. The resource person was Dr.S.Gayathri Sivasubramanian, Ph.D, Senior Assistant Professor, Xavier Institute of Management and Entrepreneurship, Chennai.

Webinar on "Solar concentrator" was conducted on 01st May 2021. The resource person was Dr.N.Sendhil Kumar, Assistant Professor, NIT puducherry.

Webinar on "Energy conservation" was conducted on 15th April 2021. The resource person was Prof.K.S.Sundar, Former Senior General Manager, Power Grid Co-operation of India, Trichy.

Webinar on "New developments in piston rings for modern engines" was conducted on 26th March 2021. The resource person was Mr.V.Arun Prakash, Senior Engineer, India Piston. Ltd, Chennai.

Webinar on "Role of CAD/CAM/CAE in New product design and development" was conducted on 17th March 2021. The resource person was Mr.R.Dhanapal, Technical Leader, Tech Mahindra Ltd, Bengaluru.

Webinar on "Basic of iron casting process" was conducted on 15th March 2021. The resource person was Mr.D.Ashok Kumar, Manager- Ferrous Application, MAGMA Engineering India Private limited, Hyderabad.

Webinar on "Industrial safety and accident prevention" was conducted on 27th February 2021. The resource person was Mr.K.Subash, EHS Engineer, AQUASUB Engineering, Unit V-Foundry, Coimbatore.

Webinar on "Gear up to automotive epicyclic Excellence" was conducted on 20th February 2021. The resource person was Prof.T.Venkatesan, Director, Fifth-Wheel Drive, The education Centre, Trichy.

Webinar on "Recent and research trends in heat exchangers" was conducted on 15th February 2021. The resource person was Dr.M.Sridharan, Independent researcher and consultant, Thanjavur.

Webinar on "Importance of failure theories in design" was conducted on 03th February 2021. The resource person was Dr.Christo Micheal, Associate professor, VIT Chennai.

Webinar on "Overview of organization structures and functions" was conducted on 25th January 2021. The resource person was Er.Kumaravel, Senior Engineer, Lucas TVS Pvt. Ltd, Chennai.

★ External Activities

Webinar on "Opportunities of welding & NDT in welding" was conducted on 15th March 2021. The resource person was Mr.R.Manikandan, Managing Director, Queen India NDT Institute, Erode.

Webinar on "Design and development of indigenous system for processing and production of high pure select electronic material for space high end application" was on 20th February 2021. The resource person was Dr.V.N.Mani, Head-Ultra High Pure Materials Division, Center for Materials for Electronics Technology, Hyderabad.

★ Higher Education Cell (HEC) Activities

Webinar on "Higher Education opportunities in abroad" was conducted on 12th February 2021. The resource person was Dr.T.C.Kanish, Assistant Director, Alumni Affairs & Secretary-General, VIT Alumni Association.

★ MOU's

MOU was signed between Department of Mechanical Engineering and Institute of Aeronautics Astronautics and Aviation (IAAA) on 18th March 2021.

★ SAE Club Activities

Webinar on an "Overview of vehicle design by using CATIA software" was conducted on 03th February 2021. The resource person was Mr.Mugesh Kalaiarasan, Lead Engineer, FORD Motor Company, Chennai.

★ EDC Activities

Webinar on "How to plan for start-up and legal & ethical steps" was conducted on 16th February 2021. The resource person was Mr.Daniel Prabhakaran, Chief Executive Officer at Annamalia Innovation and Incubation research Foundation, Annamalia University.

★ Multimedia

Multimedia club valedictory function was conducted on 8th May 2021. The resource person was M.Shabeer Ahammed, Cinematographer.

Multimedia photography and presentation events were conducted on 03rd & 04th March 2021.

★ Department Achievements

★ Consultancy works

Total amount of Rs.2, 50,000 was funded by Try CAE Industrial Engineering Pvt. Ltd., Trichy for a consultancy project titled "3D Modelling and preparation of fabrication drawings of typical guide vane and internal truss and typical straight duct NTPC Kudgi 800 MW FGD and NTPC Vallur 3x 500 MW FGD".

★ Sponsored Seminar

Total amount of Rs. 8,000 was sanctioned by Department of Biotechnology for the seminar on "The role of E-waste as filter for composites-An overview" submitted by Dr.G.Saravanan, ASP of Mechanical Engineering Department and Mr.S.Kumaravel, AP of Mechanical Engineering Department.

★ Publication in Journals

R.Karthik, R.Viswanathan, J.Balaji, N.Sivashankar & R.Arivazhagan 2020 "Optimization of WEDM Parameters for Machining of AZ31B Mg Alloy using Taguchi Method" IOP Conference Series: Materials Science and Engineering.

R.Viswanathan, G Saravanan, J.Balaji, R.Prabu & K.Balasubramani 2021 "Optimization of wear friction parameters in Aluminum 7075 hybrid composite" Elsevier – materials today proceedings. (Published in online).

N.Ravikuar, P.Sharmila, S.P.Premnath, Rajkumar, S.Rai, J.Mohammed Feroz khan, Ram Subbiah 2020 'Performance and Optimization of Parameters on Rubber punching Process', Elsevier – materials today proceedings. (Published in online).

Publication in International Conference

Dr.G.Saravanan "Experimental investigation and predict the GTAW process parameter on Al5052" in "International Virtual conference on 'Recent Innovation in Science, Engineering and Technology held at M.Kumarasamy College of Engineering on 03rd July 2020 to 4th July 2020.

Mr.M.Dineshkumar "Evaluation of geometrical and machining process parameters optimization on EN 24 by using VMC" in "International Virtual conference on 'Recent Innovation in Science, Engineering and Technology held at M.Kumarasamy College of Engineering on 03rd July 2020 to 4th July 2020.

Dr.G.Saravanan 'Performance Analysis of Shell and Tube Heat Exchanger' '3rd International Conference on New Scientific Creations in Engineering and Technology (ICNSCET-2k21)' held at Nadar Saraswathi College of Engineering and Technology, on 19th March 2021.

Dr.V.Gopinath 'Study of various methods to improve the gas turbine plant efficiency' in 'International Conference on Emerging Trends in Mechanical and Automobile Engineering (IVCETMAE - 2021)' held at J.K.K.Munirajan College of Technology, on 19th April 2021.

Mr.S.K.Karthikeyan "Thermal analysis of Semi pyramidal acrylic type solar still and semi pyramidal glass type solar still" in "3rd International Conference on New Scientific Creations in Engineering and Technology (ICNSCET-2k21)" held at Nadar Saraswathi College of Engineering and Technology, on 19th April 2021.

Mr.S.K.Karthikeyan 'Heat transfer analysis of Bio filmed pipe line' in 'International Conference on Emerging Trends in Mechanical and Automobile Engineering (IVCETMAE - 2021)' held at J.K.K.Munirajan College of Technology, on 19th April 2021.

Ms.V.Selvam 'Electrochemical brakes stop motion using Electromagnetic force to apply mechanical resistance' in "International Conference on Emerging Trends in Mechanical and Automobile Engineering" (IVCETMAE - 2021) held at J.K.K.Munirajan College of Technology, on 19th April 2021.

Mr.S.Kumaravel 'Experimental Investigation of Electrochemical machining process on copper alloy by varying its process parameters' in International Conference on 'Emerging Approaches in Mechanical & Automobile Engineering - ICEAMAE'21' held at Arasu Engineering College, on 17th & 18th March 2021.

Mr.S.Kumaravel 'Performance Enhancement of Solar PV panel using appropriate Cooling system' in International Conference on 'Emerging Trends in Mechanical and Automobile Engineering' (IVCETMAE - 2021)' held at J.K.K.Munirajan College of Technology, on 19th April 2021.

Mr.G.Selvakumar 'Regenerative braking in electric bus' in International Conference on 'Emerging Trends in Mechanical and Automobile Engineering (IVCETMAE - 2021)' held at J.K.K.Munirajan College of Technology, on 19th April 2021.

Mr.K.Gopalakrishnan 'Fabrication of pneumatic welding machine' in '3rd International Conference on New Scientific Creations in Engineering and Technology (ICNSCET-2k21)' held at Nadar Saraswathi College of Engineering and Technology, on 19th March 2021.

Mr.K.Gopalakrishnan 'Power generation from exhaust gas' in 5th International Conference on Engineering and Technology (ICETS'21)' held at Cauvery College of Engineering and Technology, on 18th & 19th March 2021.

Mr.N.Mohan 'Identification of the various common collection cause factors and analysis of the centrifugal pump' in International Conference on 'Emerging Trends in Mechanical and Automobile Engineering (IVCETMAE - 2021)' held at J.K.K.Munirajan College of Technology, on 19th April 2021.

Mr.P.Raja 'Experimental Studies on VCR diesel engine with mafuna biodiesel' in 5th International Conference on Engineering and Technology (ICETS'21) held at Cauvery College of Engineering and Technology, on 18th & 19th March 2021.

Mr.Ra.Aravind 'Computational analysis of exhaust system in diesel engine on thermal laboratory' in International Conference on 'Emerging Trends in Mechanical and Automobile Engineering (IVCETMAE - 2021)' held at J.K.K.Munirajan College of Technology, on 19th April 2021.

Mr.E.Sivaprakash 'Studies on bifacial solar panels with sun tracking system' in International Conference on 'Emerging Trends in Mechanical and Automobile Engineering (IVCETMAE- 2021)' held at J.K.K.Munirajan College of Technology, on 19th April 2021.

Mr.E.Sivaprakash 'Performance analysis of asymmetric compound parabolic concentrator' in International Conference on '3rd International Conference on New Scientific Creations in Engineering and Technology (ICNSCET-2k21)' held at Nadar Saraswathi College of Engineering and Technology, on 19th March 2021.

Mr.S.Mohankumar 'Ergonomic risk factor in poultry farming and prevalence of musculoskeletal disorder' in 5th International Conference on Engineering and Technology (ICETS'21) held at Cauvery College of Engineering and Technology, on 18th & 19th March 2021.

Mr.A.Natarajan 'Optimization characteristics and microstructure analysis of Al7075 hybrid metal matrix composite by using abrasive water jet machining' in International Conference on 'Emerging Approaches in Mechanical & Automobile Engineering - ICEAMAE'21' held at Arasu Engineering College, on 17th & 18th March 2021.

Mr.A.Natarajan 'Emission control analysis on BS-VI diesel engine in heavy vehicle' in 5th International Conference on Engineering and Technology (ICETS'21) held at Cauvery College of Engineering and Technology, on 18th & 19th March 2021.

Mr.M.Dineshkumar 'Wear properties of Hard facing deposits on mild steel using gas tungsten arc welding (GTAW)' in International Conference on 'Emerging Trends in Mechanical and Automobile Engineering (IVCETMAE - 2021)' held at J.K.K.Munirajan College of Technology, on 19th April 2021.

Publication in National Conference

Dr.R.Venkatesh 'Double pass solar air heater using aluminium absorber plate with chimney' National level Conference on 'Emerging Trends in Engineering Design and Manufacturing - ETEDM-21' held at Hindusthan Institute of technology, on 25th March 2021.

Dr.S.Gobinath 'Design and fabrication of Ground nut sheller removing machine' National level Conference on 'Green Mechatronics Systems - GREEMS 2021' held at Hindusthan College of Engineering and technology, on 31st March 2021.

Dr.K.Perlasamy 'Implementation of multimode vibration absorbing with electromagnetic damping' in Virtual National on Innovations in Electrical Power and Green Energies held at M.Kumarasamy College of Engineering, on 24th March 2021.

Dr.K.Periasamy 'Design and fabrication of robot with crane system' in National level Conference on 'Advances in Science, Engineering and Technology 2k21' held at Jai Shriram Engineering College on 26th March 2021.

Dr.D.Jagadeesh 'Design and fabrication of modern Egg incubator' National level Conference on 'Advances in Science, Engineering and Technology 2k21' held at Jai Shriram Engineering College, on 26th March 2021.

Dr.D.Jagadeesh 'Solar greenhouse dryer with combination of single pass solar air heater' National level Conference on 'Advances in Science, Engineering and Technology 2k21' held at Jai Shriram Engineering College, on 26th March 2021.

Dr.G.Saravanan 'Experimental CFD investigation of TEMA shell and tube heat exchanger' National level Conference on 'Green Mechatronics Systems - GREEMS 2021' held at Hindusthan College of Engineering and technology, on 31st March 2021.

Dr.G.Saravanan 'Experimental analysis of thermal conductivity of fused Zirconia alumina composite' in National level Conference on 'Advances in Science, Engineering and Technology 2k21' held at Jai Shriram Engineering College, on 26th March 2021.

Dr.V.Gopinath 'Cryo drilling' National level Conference on 'Recent trends in renewable energy system & project expo' held at Aiswarya College of Engineering and technology, on 13th March 2021.

Mr.R.Arivazhagan 'Analysis for mechanical behavior of jute fibre aluminum powder reinforced hybrid polymer composite' in One Day National Level Virtual Conference (ELECTTRICO 2K21) held at Karpagam Academy of Higher Education, on 26th March 2021.

Mr.S.K.Karthikeyan 'Automatic railway track crack detection vehicle' One Day National Level Virtual Conference (ELECTTRICO 2K21) held at Karpagam Academy of Higher Education, on 26th March 2021.

Mr.K.Balasubramani 'Fabrication of high performance electrical bicycle' in National level Conference on 'Green Mechatronics Systems - GREEMS 2021' held at Hindusthan College of Engineering and technology, on 31st March 2021.

Mr.K.Balasubramani 'Design and fabrication of crusher machine for plastic waste' in One Day National Level Virtual Conference (ELECTTRICO 2K21) held at Karpagam Academy of Higher Education, on 26th March 2021.

Mr.K.Balasubramani 'Experimental studies on a diesel engine using mahua oil performance, combustion and emission analysis' in National level Conference on 'Green Mechatronics Systems - GREEMS 2021' held at Hindusthan College of Engineering and technology, on 31st March 2021.

Mr.C.Dineshbabu 'Motorised Industrial trolley' in National level Conference on 'Green Mechatronics Systems - GREEMS 2021' held at Hindusthan College of Engineering and technology, on 31st March 2021.

Mr.C.Dineshbabu 'Automatic water level sensing crane' National level Conference on 'Emerging Trends in Engineering Design and Manufacturing - ETEDM-21' held at Hindusthan Institute of technology and technology, on 25th March 2021.

Mr.S.Kumaravel 'Storage type indirect hot water system by using flat plate collector' National level Conference on 'Advances in Science, Engineering and Technology 2k21' held at Jai Shriram Engineering College, on 26th March 2021.

Mr.S.Kumaravel 'Performance enhancement of solar panel using appropriate cooling system' in 2nd Virtual National Conference on Emerging Trends in Mechanical Engineering and Its Application held at SRM Institute of science and technology, on 10th April 2021.

Mr.R.Periyasamy 'Effect of injection pressure on diesel engine using Mahuva Biodiesel' in National level Conference on 'Green Mechatronics Systems - GREEMS 2021' held at Hindusthan College of Engineering and technology, on 31st March 2021.

Mr.R.Periyasamy 'Single pass solar air heater by using copper plate' in National level Conference on 'Green Mechatronics Systems - GREEMS 2021' held at Hindusthan College of Engineering and technology, on 31st March 2021.

Mr.S.Chandrakumar 'Ignition control system in Engine using seat belt' in National level Conference on 'Green Mechatronics Systems - GREEMS 2021' held at Hindusthan College of Engineering and technology, on 31st March 2021.

Mr.S.Chandrakumar 'Double solar air heater using copper plate with vanes & GD lates' in National level Conference on 'Emerging Trends in Engineering Design and Manufacturing - ETEDM-21' held at Hindusthan Institute of technology and technology, on 25th March 2021.

Mr.S.Chandrakumar 'Mechanical behavior of (Aramid) kevlar fiber composite' National level Conference on 'Green Mechatronics Systems - GREEMS 2021' held at Hindusthan College of Engineering and technology, on 31st March 2021.

Mr.J.Mahendran 'Vehicle tyre rolling resistance and load speed performance test analysis' National level Conference on 'Emerging Trends in Engineering Design and Manufacturing - ETEDM-21' held at Hindusthan Institute of technology and technology, on 25th March 2021.

Mr.J.Mahendran 'Solar thermo electric refrigeration' in One Day National Level Virtual Conference (ELECTTRICO 2K21) held at Karpagam Academy of Higher Education, on 26th March 2021.

Mr.R.Karthik 'Study the microstructure properties of AZ318 Magnesium alloy by Nano coating' in National level Conference on 'Emerging Trends in Engineering Design and Manufacturing - ETEDM-21' held at Hindusthan Institute of technology, on 25th March 2021.

Mr.M.Praveen 'Solar operated motorized reciprocating pump' in National level Conference on 'Green Mechatronics Systems - GREEMS 2021' held at Hindusthan College of Engineering and technology, on 31st March 2021.

Mr.M.Praveen, 'Comparative analysis of chromium coated HSS tool and non-coated HSS' National level Conference on 'Emerging Trends in Engineering Design and Manufacturing - ETEDM-21' held at Hindusthan Institute of technology, on 25th March 2021.

Mr.Ra.Aravind 'Spiral baffle design in double pipe heat exchanger with CFD analysis' National level Conference on 'Advances in Science, Engineering and Technology 2k21' held at Jai Shriram Engineering College, on 26th March 2021.

Mr.Ra.Aravind 'Experimental analysis of novel cylindrical shape solar still with a forced collection system' National level Conference on 'Advances in Science, Engineering and Technology 2k21' held at Jai Shriram Engineering College, on 26th March 2021.

Mr.S.Mohankumar 'Implementation of multimode vibration absorbing with electromagnetic damping' Virtual National on Innovations in Electrical Power and Green Energies held at M.Kumarasamy College of Engineering, on 24th March 2021.

Mr.G.Selvakumar 'Design of oil cooler plate and fin assembly using LCA' in National level Conference on 'Advances in Science, Engineering and Technology 2k21' held at Jai Shriram Engineering College, on 26th March 2021.

Mr.M.Dineshkumar 'Design and fabrication of multipurpose agricultural equipment' in National level Conference on 'Smart Computing & Advanced Communication' held at PSNA college of engineering and technology, on 31st March 2021.

Mr.A.Natarajan 'Exhaust gas breaking system' in National level Conference on 'Emerging Trends in Engineering Design and Manufacturing - ETEDM-21' held at Hindusthan Institute of technology, on 25th March 2021.

Mr.A.Natarajan 'Fabrication of Air leakage detector in two wheeler' in National level Conference on 'Green Mechatronics Systems - GREEMS 2021' held at Hindusthan College of Engineering and technology, on 31st March 2021.

Mr.E.Sivaprakash 'Develop and manufacturing of solar panel with sun position tracking system' in 2nd Virtual National Conference on Emerging Trends in Mechanical Engineering and Its Application' held at SRM TRP Engineering College, on 15th April 2021.

Mr.E.Sivaprakash 'Glazing solar heat collector for agricultural products' in National level Conference on 'Green Mechatronics Systems - GREEMS 2021' held at Hindusthan College of Engineering and technology, on 31st March 2021.

Mr.N.Mohan 'Experimental investigation of aluminium, Nickel and MOS 2 composite materials' in National level Conference on 'Emerging Trends in Engineering Design and Manufacturing - ETEDM-21' held at Hindusthan Institute of technology, on 25th March 2021.

Mr.V.Muthukumar 'Fabrication and characterization of banana coir steel fiber composites' in National level Conference on 'Green Mechatronics Systems - GREEMS 2021' held at Hindusthan College of Engineering and technology, on 31st March 2021.

Mr.N.Sivashankar 'Machinability study of AZ31 by using ECM process' in National level Conference on 'Advances in Science, Engineering and Technology 2k21' held at Jai Shriram Engineering College, on 26th March 2021.

Dr.A.Nithya 'Comparative Analysis of Chromium Coated HSS Tool and Non Coated HSS' National Level Conference on 'Emerging Trends in Engineering Design and Manufacturing - ETEDM-21' at Hindusthan Institute of Technology on 25th March 2021.

Dr.A.Nithya 'Design and Fabrication of Ground Nut Sheller Removing Machine' National Level Conference on 'Green Mechatronics Systems - GREEMS 2021' at Hindusthan College of Engineering and Technology on 31st March 2021.

NPTEL Courses

Mr.N.Sivashankar, AP of Mechanical Engineering department has successfully completed 8 week NPTEL course on "Roadmap for Patent Creation"

Mr.R.Karthik AP of Mechanical Engineering department has successfully completed 8 week NPTEL course on "Surface Engineering of Nanomaterials".

Faculty attended FDP Program

Dr.V.Gopinath ASP of Mechanical Engineering department attended FDP on Computational fluid dynamics held at L.B.S College of Engineering, Kasaragod from 04th January 2021 to 08th January 2021.

Mr.N.Mohan, AP of Mechanical Engineering department attended FDP on "Product Design held at College of Engineering- Trivandrum" on 04th January 2021 to 08th January 2021.

Mr.V.Muthukumar AP of Mechanical Engineering department attended FDP on 3D Printing & Design held at Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram on 04th January 2021 to 08th January 2021.

Mr.N.Sivashankar AP of Mechanical Engineering department attended FDP on 3D Printing & Design held at Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram on 04th January 2021 to 08th January 2021.

Mr.J.Mahendran AP of Mechanical Engineering department attended FDP on 3D Printing & Design held at Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram on 04th January 2021 to 08th January 2021.

Mr.S.Chandrakumar, AP of Mechanical Engineering department attended FDP on Advanced Technologies in Automotive Systems held at Karpaga Vinayaga College of Engineering and Technology on 04th January 2021 to 08th January 2021.

Dr.G.Saravanan ASP of Mechanical Engineering department attended FDP on "Sustainability Engineering" held at Chennai Institute of Technology on 25th January 2021 to 29th January 2021.

Mr.M.Dineshkumar AP of Mechanical Engineering department attended FDP on Electric Vehicles held at VeermataJijabai Technological Institute Mumbai. On 01st February 2021 to 05th February 2021.

Mr.V.Muthukumar AP of Mechanical Engineering department attended FDP on "3D Printing Technology" in Biomedical Field for Organ Transplant held at V.S.B Engineering College, Karur. on 22nd February 2021 to 27th February 2021.

Dr.C.Kalaiselvan ASP of Mechanical Engineering department attended FDP on 3D Printing Technology in Biomedical Field for Organ transplant held at V.S.B Engineering College, Karur. on 22nd February 2021 to 27th February 2021.

Mr.P.Dhanasekaran, AP of Mechanical Engineering department attended FDP on 3D Printing Technology in Biomedical Field for Organ transplant held at V.S.B Engineering College, Karur on 22nd February 2021 to 27th February 2021.

Mr.V.Muthukumar AP of Mechanical Engineering department attended FDP on Advanced Welding Processes - AWP2021 held at Coimbatore Institute of Technology, Coimbatore on 22nd March 2021 to 26th March 2021.

Mr.M.Dineshkumar AP of Mechanical Engineering department attended FDP on Advanced Welding Processes - AWP2021 held at Coimbatore Institute of Technology, Coimbatore on 22nd March 2021 to 26th March 2021.

Mr.R.Karthik AP of Mechanical Engineering department attended FDP on Novel Materials and Manufacturing Processes in Industrial Applications held at Dr.N.G.P. Institute of Technology, Coimbatore on 10th May 2021 to 14th May 2021.

Mr.N.Ravikumar AP of Mechanical Engineering department attended FDP on Novel Materials and Manufacturing Processes in Industrial Applications held at Dr.N.G.P. Institute of Technology, Coimbatore on 10th May 2021 to 14th May 2021.

Mr.S.Ravi AP of Mechanical Engineering department attended FDP on Novel Materials and Manufacturing Processes in Industrial Applications held at Dr.N.G.P. Institute of Technology, Coimbatore on 10th May 2021 to 14th May 2021.

Mr.S.Prathap AP of Mechanical Engineering department attended FDP on Novel Materials and Manufacturing Processes in Industrial Applications held at Dr.N.G.P. Institute of Technology, Coimbatore on 10th May 2021 to 14th May 2021.

Dr.A.Nithya, ASP, Mechanical Engineering department attended FDP on 'Research in Finance using E-Views' at PSGR Krishnammal College for Women from 4th to 8th Jan 2021.

Dr.A.Nithya, ASP, Mechanical Engineering department attended FDP on 'Capacity Building of Women in Higher Education' at SRM Institute of Science and Technology from 25th to 29th January 2021.

Dr.A.Nithya, ASP, Mechanical Engineering department attended FDP on 'Management Information System' at Tripura University from 8th to 12th February 2021.

Dr.A.Nithya, ASP, Mechanical Engineering department attended FDP on 'Organizational Behaviour' at Shanthigiri Institute of Management from 15th to 19th February 2021.

Dr.A.Nithya, ASP, Mechanical Engineering department attended FDP on 'Innovation Management' at Dr.B R Ambedkar National Institute of Technology 22nd to 26th February 2021.

★ Students Achievement

S.Theena Thayalan, S.Sureshkumar, R.Thivagar & S.Bhuvaneshwar of III Year Mechanical Engineering Department won I Prize in Hydraulic and Pneumatic event organized by Dhanalakshmi Srinivasan Engineering College, Perambalur held on 05th June 2021.

C.Suriya, S.Surya, R.Tamilselvan & A.Ajayprasath of III Year Mechanical Engineering Department won II Prize in Computer aided designing organized by Kongu Engineering College, Erode held on 07th April 2021.

N.Nandha Kumar, A.Naveen, B.Nicson Paul & S.Pavatharani of III Year Mechanical Engineering Department won Ist Prize in CNC Programing organized by Project Contest.Com held on 27th March 2021.

K.Deepak, M.Naveen, D.Vijay Prakash & K.Vikram of III Year Mechanical Engineering Department won III Prize in Sheet Metal Applications organized by PSG Institute Of Technology And Applied Research, Coimbatore held on 09th February 2021.

P.Ajay, A.Yogesh, J.Guna & R.V.M Jaisri of III Year Mechanical Engineering Department won II Prize in Sheet Metal Applications organized by Annapoorna Engineering College, Chennai held on 09th February 2021.

K.Harish, L.Praveen, R.Ishwarya & C.Pragadeesh of III Year Mechanical Engineering Department won II Prize in Satellite communication Quiz conducted by GUVI.

★ Internship

- ❖ Unschool Academy, Hyderabad.
- ❖ NTC, Namakkal.
- ❖ PRS Tyres (P) Ltd. Namakkal.
- ❖ Deccan Pumps (P) Ltd, Coimbatore.
- ❖ Harita Techserv, Coimbatore.

★ Value Added Course

- ❖ CNC Turning and Milling.
- ❖ CATIA V5.
- ❖ Solid Works.

★ Placement Details

S.No	Company Name	No of Students Placed
1.	Aquasub Engineering Pvt.	18
2.	Aravind Enterprises	16
3.	Cognizant Technology Solution (I) Pvt. Ltd.	1
4.	CRI Pumps Pvt. Ltd.	3
5.	Daebu Automotive Seat (I) Pvt. Ltd.	30
6.	Gestamp Automotive Chennai Pvt. Ltd.	20
7.	Mitsuba India Pvt. Ltd.	9
8.	Perfect Engineers Pvt. Ltd.	11
9.	PST Engineering Construction Pvt. Ltd	1
10.	Rambal Limited	2
11.	Sakthi Auto Components Limited	13
12.	Sri Balaji Alloys Pvt. Ltd.	5
13.	Sutherland Global Solution Pvt. Ltd.	3
14.	Tata Consultancy Services Pvt.	2
15.	Texmo Industries (Taro Pumps) Pvt. Ltd.	48
16.	TVS Brakes India Pvt. Ltd	1
17.	TVS Harita Techserv Pvt. Ltd.	11
18.	TVS Sundaram Fasteners Pvt.Ltd.	41
Total		235

★ Top 5 Latest Technology trends you must in 2021

★ 1. Bio Medical Engineering

Biomedical engineering (BME) is also known as medical engineering is the application of design concepts and engineering principles to biology and medicine for healthcare purposes.



This can solve advanced health care treatment which includes

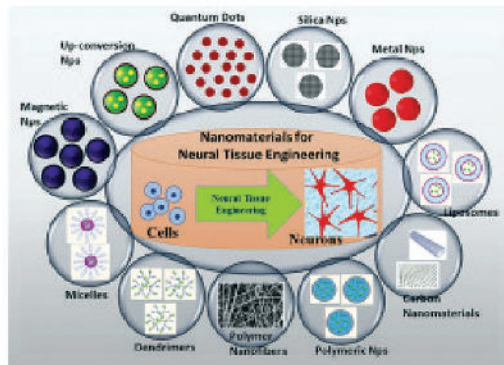
- ❖ Diagnosis
- ❖ Monitoring
- ❖ Therapy

★ 2. Green Manufacturing

The “greening” of manufacturing in the sense reducing waste and pollution by minimizing natural resource use, reusing and recycling waste, and reducing emissions.

★ 3. Nano Technology

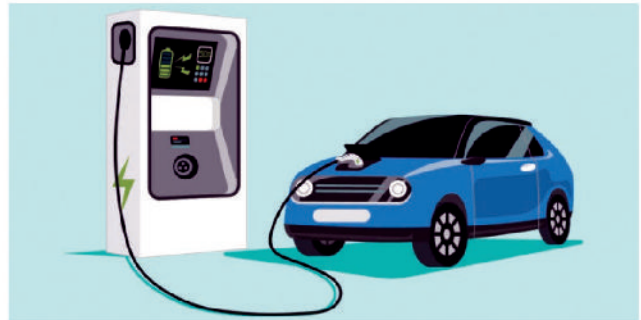
It is defined as the manipulation of matter with at least one dimension sized from 1-100nm.



Nanotechnology defined by its size is very broad, including fields of science.

★ 4. Electric Vehicles

Mechanical engineers have spent many a decade carefully developing numerous components for cars to improve their performance, quality, and most importantly, safety.



However, the rise of electric vehicles (or EVs as they're commonly referred to) is set to significantly alter the way that mechanical engineers work – the biggest being the movement from internal combustion engines to cleaner battery-based power systems.

★ 5. CAD-CAM Sustainability

CAD-CAM Sustainability refers to the designing and building of ecologically sustainable objects, buildings and environments. This entails maintaining change in a homeostatic environment where the use of resources meet the current and future needs of humanity, without compromising on the earth's resources.

Heartfelt thanks to all the faculty members of Kongunadu College of Engineering and Technology and our well-wishers.



Kongunadu
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