



ERODE SENGUNTHAR ENGINEERING COLLEGE

AUTONOMOUS

(APPROVED BY AICTE, NEW DELHI AND PERMANENTLY AFFILIATED TO ANNA UNIVERSITY, CHENNAI
ACCREDITED BY NBA, NEW DELHI, NAAC WITH GRADE "A", BANGALORE, IE(I), KOLKATA)

PERUNDURAI, ERODE - 638 057, TAMILNADU.

DEPARTMENT OF MECHANICAL ENGINEERING

News Letter

Mech Tattva -The Truth in Depth

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Founder



UDYOG RATTAN
Thiru J Sudhanandhen

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COLLEGE VISION

Vision of Erode Sengunthar Engineering College is to become a World Class Technical Institution and Scientific Research Centre for the Benefit of the Society.

COLLEGE MISSION

Erode Sengunthar Engineering College will strive continuously to

1. Create Positive difference to Society through Innovative Teaching – Learning Process.
2. Impart Value Based Technical Education to the Students from across various Socio Economic backgrounds.
3. Build State of art infrastructure for high quality Research and Development capabilities on par with the finest in the Globe and widen student's horizons beyond Class Room.
4. Bring out Competent, Ethically Strong and Quality Professionals.

QUALITY POLICY

Erode Sengunthar Engineering College is committed to impart World Class Technical Know-How to the Students from diverse Socio Economic backgrounds and to transform their lives by nurturing Multi-Skills and facilitating them to develop holistically



VISION

To become the premier department of excellence in the field of Mechanical Engineering, committed to provide global quality Mechanical Engineers to cater the needs of industries and the nation, in general.

VISION

DM1: Teaching – Learning Process: To impart quality technical education through innovative teaching and learning mechanisms.

DM2: State of Art Infrastructure: To build the state-of-the-art infrastructure facilitating the faculty and students to learn and disseminate knowledge and innovate in their career.

DM3: Research and Development: To mould the aspiring young minds to emerge as successful practitioners of quality education through entrepreneurship, consultancy and research.

DM4: Core values & Ethics: To instill core values and strong ethics, nurturing the intellectual, socio-cultural and economic development of our diverse community.

PEO

PEO1: Basic knowledge: To prepare the students with strong fundamental knowledge in Mathematics, Science, English and Engineering Sciences so as to enable them to analyze the Mechanical Engineering related problems

PEO2: Core competence and professionalism: To develop ability among the students for acquiring technical knowledge in the Subjects and gaining the technical skills in classical software packages, applying the same for design, fabricate and install the machines.

PEO3: Research and Consultancy: To provide opportunities for the students to carry out research and consultancy activities by understanding the different industrial environments.

PEO4: Continuous Learning: To promote the students for continuous learning and higher studies with strong professional, moral and ethical values.

PSO

PSO1: Materials and Methods: An ability to choose the appropriate materials, the manufacturing process to design, model, simulate, analyze and fabricate the mechanical and thermal systems using suitable tools and techniques.

PSO2: Standardization: An ability to adopt various standard practices pertaining to design, manufacturing, operation and testing.

PSO3: Publication: An ability to document the inferences, interpretation of the results and publish the output in different forums.



PO'S



P01: Engineering Knowledge: Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.

P02: Problem Analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4)

P03: Design/Development of Solutions: Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)

P04: Conduct Investigations of Complex Problems: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions. (WK8).

P05: Engineering Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6)

P06: The Engineer and The World: Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal frame work, culture and environment. (WK1, WK5, and WK7).

P07: Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9)

P08: Individual and Collaborative Teamwork: Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

P09: Communication: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences

P010: Project Management and Finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

P011: Life-Long Learning: Recognize the need for, and have the preparation and ability for
i) Independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change. (WK8)

About the Department

As industries move towards greater efficiency and environmental responsibility, mechanical engineering continues to play a crucial role in shaping modern technology and infrastructure.

The **Department of Mechanical Engineering** was established in the year **1996**. It is equipped with the state-of-the-art laboratories and computing facilities with high caliber equipment and machinery. The department has highly qualified and experienced faculty members. Accredited by **NBA in 2009** the Department has been recognized as a research centre by Anna University. The department also offers a Postgraduate Programme (M.E.) in Industrial Safety Engineering and M.E Manufacturing Engineering.

The Department has **modern facilities**, enabling **cutting edge research** in a wide spectrum of technological areas. The department actively assists local industries in product design, complex-part manufacturing etc.,

The faculty members actively engage in research and constantly publish papers in International and National Journals. Guest lectures and industrial visits are periodically arranged for the students to enhance their curriculum. The department is well known for its vibrant club activities and professional chapters. The students are trained through the incubation centre, **CNC Training** cum Machining center and **Drone development** center to carry out real time projects.

The students are exposed to latest developments in the field of Mechanical Engineering by means of organizing symposia, seminars, workshops to enrich their knowledge. Apart from that, the students are **trained in language laboratory** to enhance their communication skills and in **software packages** to design and simulate and analyses the mechanical components. It strives for all round excellence in students, encouraging them in all extra-curricular activities.

Faculty Achievements



Mr. S. Karthikeyan, Assistant Professor, Department of Mechanical Engineering, participated in the IP Awareness Training Programme conducted under the National Intellectual Property Awareness Mission (NIPAM) by the Intellectual Property Office, India, on 03 January 2025.

Mr. K. S. Mohanraj, Assistant Professor, Department of Mechanical Engineering, participated in a Six-Day Online Faculty Development Programme on “Importance of Artificial Intelligence in Robotics”, conducted by Indian Institute of Information Technology, Design and Manufacturing (IITDM), Kurnool, from 20 January 2025 to 25 January 2025.



Mr. N. S. Mohan, Assistant Professor, Department of Mechanical Engineering, participated in the Faculty Development Programme on “Emerging Material Innovations for Industrial Applications”, conducted by Rathinam Technical Campus, Coimbatore, on 17 & 18 February 2025.

Mr. A. Prabhakaran, Assistant Professor, Department of Mechanical Engineering, participated in a Six-Day Online Faculty Development Programme on “Unmanned Air Vehicles and Drone Technology”, conducted by Maturi Venkata Subba Rao Engineering College, from 27 January 2025 to 01 February 2025.





Mr. K. S. Mohanraj, Assistant Professor, Department of Mechanical Engineering, participated in a Six-Day Online Faculty Development Programme on “Metal Additive Manufacturing: Today, Tomorrow, and Beyond”, conducted by National Institute of Technology (NIT) Calicut, from 27 January 2025 to 01 February 2025

Dr. J. Balaji, Associate Professor, Department of Mechanical Engineering, participated in the AICTE Sponsored Three-Day Workshop on “Technological Advancements in Space and Defence Sector”, conducted by Madras Institute of Technology (MIT), Chennai, from 30 January 2025 to 01 February 2025



Dr. M. Elango, Associate Professor, Department of Mechanical Engineering co-authored the research paper “Optimized Cooling Solutions for Lithium-Ion Batteries in Electric Vehicles using PCM Composites”, presented at the 3rd International Conference on Sustainable Green Energy Technologies (ICSGET 2025) and published in E3S Web of Conferences (Vol. 619, Article 02011) on 12 March 2025

Mr. N. S. Mohan, Assistant Professor, The Department of Mechanical Engineering, Erode Sengunthar Engineering College, proudly congratulates Assistant Professor, on receiving the prestigious NPTEL Discipline Star Award for the January–April 2025 session.



Dr. J. Balaji, Associate Professor, Department of Mechanical Engineering, participated in a One-Week Online Faculty Development Programme on “Recent Advances in Mechanical Engineering: A Research Perspective”, conducted by Mahatma Gandhi Institute of Technology, Hyderabad, from 10 May 2025 to 14 May 2025.

Mr. S. Karthikeyan, Assistant Professor, Department of Mechanical Engineering! presented three research papers at the National Symposium on Recent Advances in Electronic, Optical and Magnetic Materials (RAEOM'25) held at Karpagam Academy of Higher Education, Coimbatore on 06 & 07 February 2025



Dr. J. Balaji, Associate Professor, Department of Mechanical Engineering! presented the research paper "An Experimental Investigation and Analysis of the Mechanical Properties of Titanium Dioxide (TiO₂) Reinforced Aluminium (AA7075) Composite Produced by Stir Casting Route" at the International Conference ICSTES-2025 organised by Kings College of Engineering and Technology (08 & 09 May 2025)

Dr. N. Saravanan, Department of Mechanical Engineering, successfully presented a research paper titled "Thermal Evaporation Processing Techniques in Zinc Oxide Thin Film" at the National Conference on Recent Advances in Engineering and Management (RAEOM 2025), organized by Karpagam Academy of Higher Education, on 06 & 07 February 2025.



Mr. N. S. Mohan Assistant Professor, of the Department of Mechanical Engineering, Erode Sengunthar Engineering College, presented his research paper titled "Synergistic Activity of SrFeO₃/TiO₂ Nanocomposites for Biodiesel Production" at ICFMNA 2025, held on 03–04 February 2025.

Mr. C. Chelladurai, Assistant Professor, Department of Mechanical Engineering, is one of the inventors of the Indian patent application titled "Experimental Study on the Mechanical and Thermal Properties of Basalt Fiber and Nanoclay Reinforced Polymer".





Mr. N. S. Mohan, Assistant Professor, Department of Mechanical Engineering, participated in the Five-Day Basic Faculty Development Programme for AICTE IDEA Lab Co-coordinators, conducted by K.S. Rangasamy College of Technology, Tiruchengode, from 21 May 2025 to 25 May 2025

Department of Mechanical Engineering! Dr. J. Balaji, Associate Professor, presented the research paper “Investigation of Thermal Treatment Effects on the Mechanical Properties of 3D Printed Bio-Plastics” at the 2nd International Conference on Sustainable Technologies, Energies and Materials (STEM'25) held at King Mongkut's University of Technology North Bangkok, Thailand (19–21 February 2025)



Mr. S. Karthikeyan Assistant Professor, The Department of Mechanical Engineering, Erode Sengunthar Engineering College, proudly acknowledges the research contribution of through the publication of the research article titled “Studies on Machining of Metal Matrix Composites Using Electrochemical Machine” in High Temperature Material Processes in April 2025.

Mr. K. Elavarasan, Assistant Professor, Department of Mechanical Engineering, successfully completed a one-month Electric Vehicle Internship Training at Decibel Lab Pvt Ltd, Bangalore, from 01 February 2025 to 28 February 2025.



Dr. S. Suresh, Associate Professor, Department of Mechanical Engineering, is the inventor of the Indian patent application titled “Multiplanar 2D Plotter For Floor And Wall Art Work”.

Dr.S.Navaneethakrishnan ,The Department of Mechanical Engineering, Erode Sengunthar Engineering College, proudly congratulates on receiving the prestigious NPTEL Prospects 2025 Award from IIT Madras on 08 February 2025.



Mr. S. Karthikeyan, Assistant Professor, Department of Mechanical Engineering, has authored the book titled “Materials Science and Engineering”, published by Lunar Publications in 2025 (ISBN: 978-81-983636-6-4).

Mr. S. Karthikeyan, Assistant Professor, Department of Mechanical Engineering, is the inventor of the Indian patent application titled “Dynamic Mechanical Pivots managed through Intelligent AI Load-Balancing”.



Dr. N. Saravanan, Professor & Head, Department of Mechanical Engineering, has published a research paper titled “Construction safety performance measure for perception of excavation hazard by comprehensive survey route” in AIP Conference Proceedings (March 2025).

Mr. C. Chelladurai, Assistant Professor, The Department of Mechanical Engineering, Erode Sengunthar Engineering College, proudly recognizes the research achievement for the publication of a patent titled “Experimental Study on the Mechanical and Thermal Properties of Basalt Fiber and Nanoclay Reinforced Polymer.”



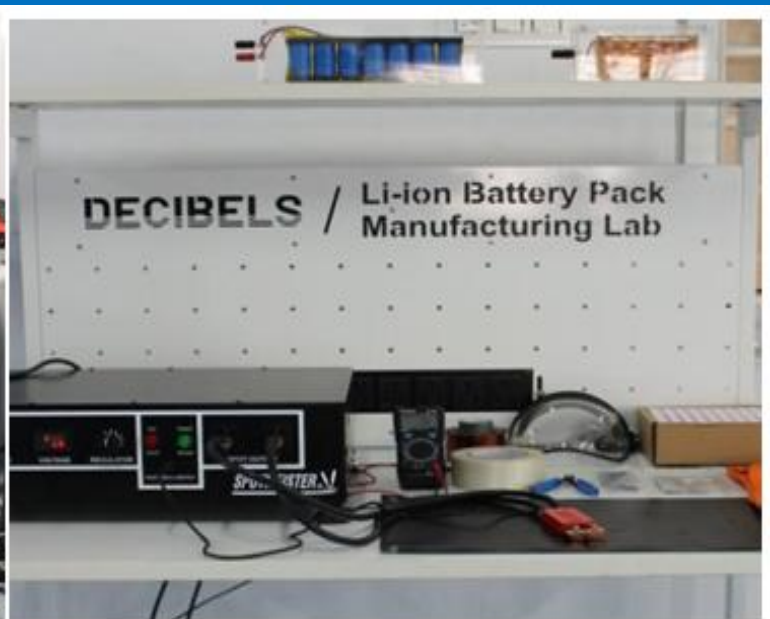
Mr. S. Karthikeyan, Assistant Professor, Department of Mechanical Engineering, has authored the book titled “Optimization Techniques in Manufacturing”, published by Lunar Publications in 2025 (ISBN: 978-81-983636-5-7).



Dr. J. Balaji and Dr. S. Suresh have jointly published a research paper titled “Influence of dwell time on microstructure and mechanical properties of Friction Stir Spot welded aluminium dissimilar joints” in the reputed international journal Welding International.



Mr. N. S. Mohan, Assistant Professor, Department of Mechanical Engineering, has published a research paper titled “Enhancing Catalytic Efficiency of Sm and Sm@Ag Doped Strontium Titanate” in the reputed international journal Ceramics International.



Dr. S. Suresh, Associate Professor, Department of Mechanical Engineering, has been awarded a Travel Grant of Rs. 25,000/- under the Anusandhan National Research Foundation (ANRF) to participate in the 2nd International Conference on Sustainable Technologies, Energies and Materials (STEM'25) held in Thailand on 05.02.2025.



Mr. N. S. Mohan, Assistant Professor, Department of Mechanical Engineering, has published a research paper titled "Synthesis, characterization, and mechanistic insights into catalytic performance of La/Pr-doped SrFe_2O_4 nanoparticles" in the reputed international journal *Journal of Rare Earths*.

Mr. V. P. Krishnamurthy, Assistant Professor, Department of Mechanical Engineering, has published a research paper titled "Processes and Characteristics of Austempered Ductile Iron – A Review" in AIP Conference Proceedings (dated 05.06.2025).



Mr. S. Karthikeyan, Assistant Professor, Department of Mechanical Engineering, has published multiple research papers in reputed international journals and conference proceedings during 2025.



Mr. N. S. Mohan, Assistant Professor, Department of Mechanical Engineering, has been awarded a research grant of Rs. 1,00,000/- under the Anusandhan National Research Foundation (ANRF) for the project titled “Future-Proof Prosthetics in Biomechanics...” (dated 25.03.2025).



Mr. N. S. Mohan, Assistant Professor, Department of Mechanical Engineering, has been awarded a research grant of Rs. 1,00,000/- under the Anusandhan National Research Foundation (ANRF) for the project titled “Advanced Biomechanics: Prosthetics Development...” (dated 15.03.2025).

Mr. S. Karthikeyan, Assistant Professor, Department of Mechanical Engineering, has secured Rs. 7,500 from TNSCST Student Project Scheme (2024–2025) for the project “Foot-step Generator using Piezoelectric using Microcontroller.”



Mr. N. S. Mohan, Assistant Professor The Department of Mechanical Engineering, Erode Sengunthar Engineering College, is delighted to share that has been recognised as an NPTEL Discipline Star for the January–April 2025 semester.

Dr. S. Navaneethakrishnan, Associate Professor, Department of Mechanical Engineering, has received the NPTEL – Prospects 2025 Award from IIT Madras on 08 February 2025 for his outstanding contribution as NPTEL SPOC.



Dr. J. Balaji, Associate Professor, Department of Mechanical Engineering, delivered a Guest Lecture on “Joining Processes for Light Weight Alloys” at Muthayammal Engineering College on 27 March 2023.



Dr. N. Saravanan, Professor & Head, Department of Mechanical Engineering, served as a Reviewer for Recent Patents on Engineering (27.02.2025) and Journal of Engineering Research and Reports (25.02.2025). He is also a recognised Bentham Science Reviewer.

Dr. M. Vijay Anand, Professor, The Department of Mechanical Engineering is delighted to congratulate on the publication of the book chapter titled “Universal Design and Digital Tools for Enhancing Pedagogical Content Knowledge: Effective Teaching Process”



Dr. S. Suresh, The Department of Mechanical Engineering is proud to announce this achievement has authored a book chapter titled “Processing of Smart Materials by Additive Manufacturing and 4D Printing”, published by De Gruyter in 2025.



The Department of Mechanical Engineering takes great pride in announcing the publication of the book “Automotive Electrical and Electronic Concepts” authored by Dr. M. Vijay Anand and Dr. P. Thangavel, Professors in the Department.



Student Internships

Mr. Pavithran M, student of Mechanical Engineering, Erode Sengunthar Engineering College, during his Industrial Training at Sri Motor Eicher Workshop, Chithode (23.01.2025 – 01.02.2025).

Mr. Kumaravel D, student of Mechanical Engineering, Erode Sengunthar Engineering College, during his Industrial Training at Sri Surya Agro Tech, Gobi (21.01.2025 – 06.02.2025).

Mr. Logesh R, student of Mechanical Engineering, Erode Sengunthar Engineering College, during his Industrial Training at Sri Surya Agro Tech, Gobi (21.01.2025 – 06.02.2025).

Mr. Kishore Kumar B, student of Mechanical Engineering, Erode Sengunthar Engineering College, during his Industrial Training at Sri Surya Agro Tech, Gobi (21.01.2025 – 06.02.2025).

Mr. Srikanth T, student of Mechanical Engineering, Erode Sengunthar Engineering College, during his Industrial Training at Sri Surya Agro Tech, Gobi (21.01.2025 – 06.02.2025).

Arunkumar V (730421114002), B.E. Mechanical Engineering – 2025 Batch, has been placed at Nutz Technovation, Erode, through an On-Site Campus Drive.

Mr. Balaji T, student of Mechanical Engineering, Erode Sengunthar Engineering College, during his Industrial Training at Poworo Pvt Ltd, Anthiyur (20.01.2025 – 07.02.2025).

Placements

We are delighted to share that six students from the Department of Mechanical Engineering (2025 batch) have been selected by Pegatron Technology India Pvt Ltd, Chennai through On-Campus Placement.

Name	Register No.	Branch
Balasurya M	730421114003	BE-MECH (E)
Nishak J	730421114021	BE-MECH (E)
Saravanakumar A	730421127008	MECH (T)
Abhimanyu Kumar	730421114044	BE-MECH (E)
Vaanmukil B	730421114311	BE-MECH (E)
Sri Sakthivel P	730421114309	BE-MECH (E)



We are delighted to announce that seven students from the Department of Mechanical Engineering (2025 batch) have been selected by Gestamp Automotives, Chennai through On-Campus Placement.

Name	Register No.	Branch
Dharmaraj K	730421114005	BE-MECH (E)
Kishore V S	730421114016	BE-MECH (E)
Sasitharan V	730421114031	BE-MECH (E)
Viswa S	730421114040	BE-MECH (E)
Hemachandru V	730421114302	BE-MECH (E)
Aman Kumar	730421114045	BE-MECH (E)
Nitheesh A	730421127307	MECH (T)



The Department of Mechanical Engineering is proud to highlight eight students associated with Team Detailing Solutions. These students demonstrate the department's focus on practical learning, industry exposure, and professional skill development.

Name	Register No.	Programme
Dharashan B	730421114006	BE-MECH (E)
Mohanbabu K	730421114018	BE-MECH (E)
Murugan S	730421114019	BE-MECH (E)
Saran S	730421114029	BE-MECH (E)
Vasanth Sankar M P	730421114038	BE-MECH (E)
Anand Kumar	730421114046	BE-MECH (E)
Kundan Kumar	730421114049	BE-MECH (E)
Karthick K	730421127305	MECH (T)

The Department of Mechanical Engineering (2025 batch) have been successfully placed On Campus at Lakshmi Precision Technologies Limited (LPT), Coimbatore.

Name	Register Number	Programme
Dinesh M	730421114008	BE-MECH (E)
Elangovan R	730421114009	BE-MECH (E)
Sakthivel M	730421114028	BE-MECH (E)
Thaveethu Raj B	730421114037	BE-MECH (E)
Yugender R	730421114042	BE-MECH (E)
Vishnu A	730421114043	BE-MECH (E)
Vignesh M	730421114312	BE-MECH (E)
Gowtham A	730421127006	MECH (T)
Mohanraj N	730421127306	MECH (T)

The Department of Mechanical Engineering (2025 batch) have been successfully placed On Campus at Profuture Tech Solutions Private Limited, Chennai.

Name	Register Number	Programme
John Ebinesar J	730421114012	BE-MECH (E)
Rajadurai J	730421114024	BE-MECH (E)
Sakthibala M	730421114027	BE-MECH (E)
Satheees Kumar D	730421114032	BE-MECH (E)
Wesly Jose J	730421114041	BE-MECH (E)

The Department of Mechanical Engineering (2025 batch) have been successfully placed On Campus at Sri Sai Power And Equipments Private Limited, Trichy.

Name	Register Number	Programme
Hariprasath A S	730421114011	BE-MECH (E)
Robert Rajan L	730421114026	BE-MECH (E)
Sivaraj G P	730421114034	BE-MECH (E)
Mohanram P	730421114307	BE-MECH (E)
Balakrishnan G	730421127002	MECH (T)
Karuppusamy S	730421127007	MECH (T)



The Department of Mechanical Engineering, Erode Sengunthar Engineering College, is pleased to announce the on-campus placement of Gokulnath R at Conserve Technologies, Chennai.

Name	Register Number	Programme
Gokulnath R	730421127005	MECH (T)

The Department of Mechanical Engineering, Erode Sengunthar Engineering College, is delighted to announce the off-campus placement of Rahul Kumar Jha A at Maroon It Networks, Assam.

Name	Register Number	Programme
Rahul Kumar Jha A	730421114050	BE-MECH (E)



Student Projects

The Department of Mechanical Engineering, Erode Sengunthar Engineering College, is proud to highlight an innovative final-year project titled “Experimental Investigation of 3D Printed Composite Overwrapped Pressure Vessel”.

Roll Numbers	Project Members	Supervisor
ES21ME14, ES21ME25, ES21ME29, ES21ME34	Karthikeyan S, Ranjith Kumar E, Saran S, Sivaraj G P	Dr. J. Balaji

The Department of Mechanical Engineering, Erode Sengunthar Engineering College, is proud to highlight the final-year project titled “The Evaluation of Musculoskeletal Disorder Among Workers Involved in the Process of Cotton Harvesting”.

Roll Numbers	Project Members	Supervisor
ES21XM04, ES21XM05, ES21XM10, ES22XLM05	Gokulakrishnan S, Gokulnath R, Surendar D, Karthik K	Dr. M. Vijay Anand

The Department of Mechanical Engineering, Erode Sengunthar Engineering College, is proud to highlight the final-year project titled “Sustainable Hydrophobic Coating Development Using Silica Extracted from Sugarcane Bagasse Waste Ash”.

Roll Numbers	Project Members	Supervisor
ESB21ME49, ESB21ME50, ESB21ME44	Kundan Kumar, Rahul Kumar Jha, Abhimanyu Kumar	Dr. J. Manivannan

The Department of Mechanical Engineering, Erode Sengunthar Engineering College, is proud to highlight another impactful final-year project titled “Synthesis and Characterization of Strontium Ferrites as a High Efficiency Catalyst for Biodiesel Production from Recycled Cooking Oil”

Roll Numbers	Project Members	Supervisor
ES21ME22, ES21ME32, ES21ME27, ESB21ME48	Praneshkumar T, Satees Kumar D, Sakthi Bala M, Golu Kumar Singh	Mr. N.S. Mohan



The Department of Mechanical Engineering, Erode Sengunthar Engineering College, is proud to highlight the final-year project titled “Design and Development of 3D-Printed Scorpio RC Helicopter for Multi-Field Surveillance”.

Roll Numbers	Project Members	Supervisor
ES22LXM01, ES22LXM02, ES22LME04, ES21LXE06	Balakumar J, Edward Ranjith E, Kanniyappan B, Mohanraj N	Dr. S. Suresh

The Department of Mechanical Engineering, Erode Sengunthar Engineering College, is proud to highlight the final-year project titled “Development of Safflower Oil Based Cutting Fluid for Improved Efficiency”.

Roll Numbers	Project Members	Supervisor
ES21XM07, ES21XM08, ES22XLM03, ES22XLM07	S. Karuppasamy, Saravanakumar A, Kabaleeshwaran K, Nitheesh A	Mr. A. Prabhakaran

The Department of Mechanical Engineering, Erode Sengunthar Engineering College, is proud to highlight the final-year project titled “The Evaluation of Musculoskeletal Disorder Among Workers Involved in the Process of Cotton Harvesting”.

Roll Numbers	Project Members	Supervisor
ES21XM04, ES21XM05, ES21XM10, ES22XLM05	Gokulakrishnan S, Gokulnath R, Surendar D, Karthik K	Dr. M. Vijay Anand

The Department of Mechanical Engineering, Erode Sengunthar Engineering College, is proud to highlight the final-year project titled “Sustainable Hydrophobic Coating Development Using Silica Extracted from Sugarcane Bagasse Waste Ash”.

Roll Numbers	Project Members	Supervisor
ESB21ME49, ESB21ME50, ESB21ME44	Kundan Kumar, Rahul Kumar Jha, Abhimanyu Kumar	Dr. J. Manivannan

The Department of Mechanical Engineering, Erode Sengunthar Engineering College, is proud to highlight the final-year project titled “Design of Hybrid Electric Vehicle Using Solar and Wind Energy with Dynamo Charging Unit”.

Roll Numbers	Project Members	Supervisor
ESB21ME45, ESB21ME46, ESB21ME47, ES21ME02	Aman Kumar, Anand Kumar, Avinash Yadav, Arunkumar V	Mr. P. Chokkalingam

The Department of Mechanical Engineering, Erode Sengunthar Engineering College, is proud to highlight the final-year project titled “Conventional Lathe Gear Fabrication and Testing by Using Natural Fibers and Cast Iron Particulate Reinforced Polymer Composite Materials”.

Roll Numbers	Project Members	Supervisor
ES21ME38, ES21ME39, ES22LME03, ES22LME01	Vasanth Shankar M.P, Vimal S, Karthikeyan S, Hari Prasath S	Dr. S. Navanneethakrishnan

Student Achievements

Mr. Yoga Selva Kumar, P II, of the Department of Mechanical Engineering, Erode Sengunthar Engineering College, participated in a professional academic programme on “Advancements in Chemical Processing Technology” held at SIMATS Engineering, Thandalam, on 30 August 2024.

Karan P – II Year participated in the programme “Future-Driven Trends in Mechanical Engineering” organized by KSR College of Engineering, Namakkal, on 27 September 2024.

Gokul Y – II Year actively participated in the National-Level One-Day Programme on “Future-Driven Trends in Mechanical Engineering”, organized by KSR College of Engineering, Namakkal, on 27 September 2024.

Gokulmurugan L – II Year participated in the National-Level One-Day Programme on “Future-Driven Trends in Mechanical Engineering”, organized by KSR College of Engineering, Namakkal, on 27 September 2024.

Kumaravel D – II Year participated in the National-Level One-Day Programme on “Recent Trends and Challenges in Robotics”, organized by Sri Krishna College of Engineering and Technology, Coimbatore, on 18 October 2024.

Dhayanithi A – II Year participated in the National-Level One-Day Programme on “Recent Trends and Challenges in Robotics”, organized by Sri Krishna College of Engineering and Technology, Coimbatore, on 18 October 2024.

Mr. Gokul Krishnan N, II Year student of the Department of Mechanical Engineering, Erode Sengunthar Engineering College, participated in the National Seminar on “Recent Trends and Challenges in Robotics” organized by Sri Krishna College of Engineering and Technology, Coimbatore on 18.10.2024.

Mr. Navin Kumar S, a II Year Mechanical Engineering student, actively participated in the National Seminar on “Recent Trends and Challenges in Robotics” organized by Sri Krishna College of Engineering and Technology, Coimbatore on 18.10.2024.

Mr. Kishore Kumar B, a II Year Mechanical Engineering student, participated in the National Seminar on “Cyber Security” organized by SNS College of Engineering, Coimbatore on 18.10.2024.

Mr. Pavithiran M, a II Year Mechanical Engineering student, participated in the National Seminar on “Cyber Security” organized by SNS College of Engineering, Coimbatore on 18.10.2024.

Mr. Thimusi Arasan, a II Year Mechanical Engineering student, participated in the National Seminar on “Artificial Intelligence & Machine Learning” organized by Sree Sakthi Engineering College, Coimbatore on 16.11.2024.



Mr. Gokulmurugan L, a II Year Mechanical Engineering student, participated in the National Seminar on “Artificial Intelligence & Machine Learning” organized by Sree Sakthi Engineering College, Coimbatore on 16.11.2024.

Mr. Dinesh U, a III Year Mechanical Engineering student, participated in the National Seminar on “Thermal Energy” organized by Vellalar College of Engineering and Technology, Erode on 05.10.2024.

Mr. Giridharan S, a III Year Mechanical Engineering student, participated in the National Seminar on “Thermal Energy” organized by Vellalar College of Engineering and Technology, Erode on 05.10.2024.

Mr. Kishole Kumar B, a II Year Mechanical Engineering student, participated in the National Seminar on “Mechanical Improvement in Metal Forming Process” organized by Vellalar College of Engineering and Technology, Erode on 05.10.2024.

Mr. Pavithiran M, a II Year Mechanical Engineering student, participated in the National Seminar on “Mechanical Improvement in Metal Forming Process” organized by Vellalar College of Engineering and Technology, Erode on 05.10.2024.

Mr. Balaji V, a III Year Mechanical Engineering student, participated in the National Seminar on “External Combustion Engines” organized by Paavai Engineering College, Namakkal on 08.11.2024.

Mr. Rahul Kumar Jha, II Year Mechanical Engineering student, successfully completed the one-day online training program on “Basics of Python Programming” offered through Open Weaver on 31.05.2023. The training introduced fundamental programming concepts, Python syntax, problem-solving techniques, and the applications of programming in modern engineering fields.

Mr. Rahul Kumar Jha, II Year Mechanical Engineering student, successfully completed the one-day online certification course on “Car Mechanic Training” conducted through **Alison** on 26.05.2023. The course focused on the fundamentals of automobile engineering, vehicle components, engine systems, preventive maintenance, fault identification, and basic troubleshooting techniques.

Mr. Premnath P, III Year Mechanical Engineering student, successfully completed the one-day online certification course on “Cisco LABS Crash Course” conducted by EC-Council on 04.05.2023. The course provided an introduction to networking concepts, network configuration, cybersecurity fundamentals, and practical exposure to laboratory-based networking activities

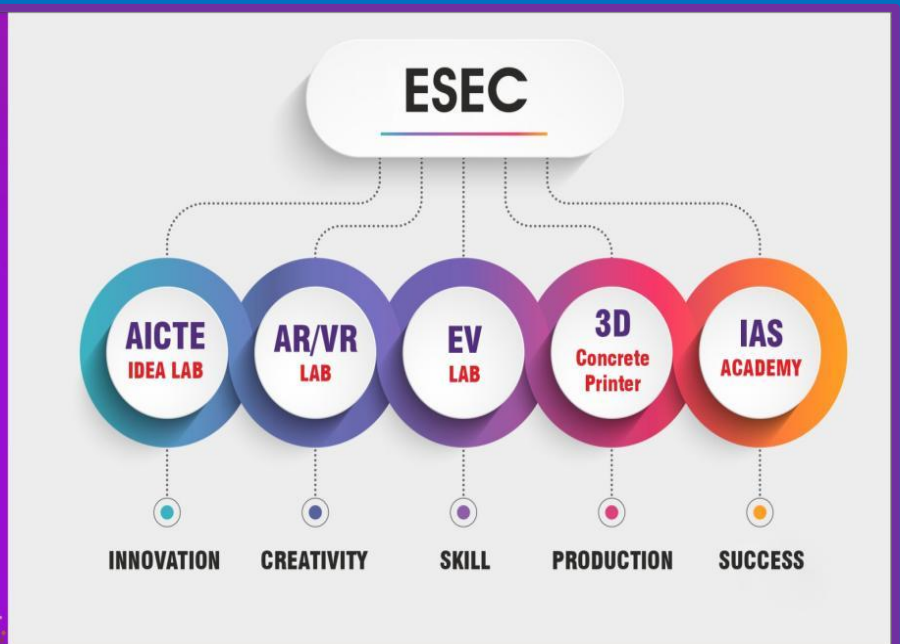
Mr. Aswanth, III Year Mechanical Engineering student, successfully completed the one-day certification course on “Ethical Hacking Essentials (EHE)” conducted by EC-Council on 03.05.2023. The course provided fundamental knowledge of cybersecurity principles, ethical hacking concepts, network security, vulnerability identification, and methods to safeguard digital systems.

Mr. Arulmanikandan K, III Year Mechanical Engineering student, successfully completed the one-day certification course on “Ethical Hacking Essentials (EHE)” conducted by EC-Council on 02.05.2023. The course provided essential knowledge about cybersecurity fundamentals, ethical hacking techniques, network security, vulnerability assessment, and protection strategies for digital systems.

Mr. Dineshkumar G, III Year Mechanical Engineering student, successfully completed the one-day online certification course on “Learn Python 3 with Turtle” offered through Open Weaver on 02.05.2023. The course introduced the fundamentals of Python programming, Turtle graphics, basic coding concepts, and logical problem-solving techniques through interactive programming exercises.

Mr. Hariprakash S, III Year Mechanical Engineering student, successfully completed the one-day online certification course on “Learn Python 3 with Turtle” offered through Open Weaver on 02.05.2023. The course provided an introduction to Python programming fundamentals, Turtle graphics, coding logic, and basic problem-solving approaches through practical programming exercises.

Mr. Hariprakash S, III Year Mechanical Engineering student, successfully completed the one-day online certification course on “Introduction to Artificial Intelligence” offered through SkillUp on 01.05.2023. The course provided fundamental knowledge of Artificial Intelligence concepts, machine learning basics, AI applications, and the role of intelligent technologies in modern engineering systems.



Mr. Dineshkumar G, III Year Mechanical Engineering student, successfully completed the one-day online certification course on “Basics of JavaScript Programming” offered through Open Weaver on 03.05.2023. The course introduced fundamental programming concepts, JavaScript syntax, web programming basics, and the applications of scripting languages in digital technologies.

Mr. Arulmanikandan K, III Year Mechanical Engineering student, successfully completed the one-day online certification course on “Introduction to IoT” offered through SkillUp on 25.04.2023. The course provided fundamental knowledge about Internet of Things (IoT) concepts, connected devices, sensors, data communication, and IoT-based applications.

Mr. Sethubathi J, III Year Mechanical Engineering student, successfully completed the one-day online certification course on “Accounting Training – Online Accounting Course” offered through EDUCBA on 15.04.2023. The course provided fundamental knowledge of accounting principles, financial concepts, accounting procedures, and the importance of financial management in professional environments.

Mr. Rahul Kumar Jha, a II Year student of the Department of Mechanical Engineering, Erode Sengunthar Engineering College, participated in the “Safe Online Practices” Quiz organized by the Ministry of Electronics & Information Technology (MeitY) on 30 November 2022 and 01 December 2022.

Mr. Sethubathi J, III Year Mechanical Engineering student, successfully completed the one-day online certification course on “Quality Management System Specifics for Automotive Industry” offered through Alison on 14.04.2023. The course provided insights into quality management principles, automotive industry standards, quality assurance practices, process improvement techniques, and the importance of maintaining quality systems in manufacturing sectors.

Sethubathi J, a III Year Mechanical Engineering student of Erode Sengunthar Engineering College, actively participated in an Online Quiz organized by K. Ramkrishnan College of Engineering, Trichy, on 15 March 2023. The one-day online quiz provided an opportunity for the student to assess and enhance their technical knowledge, problem-solving ability, and awareness of engineering concepts. Participation in such academic activities reflects the student's enthusiasm for continuous learning and professional development.

Mr. Sethubathi J, a III Year Mechanical Engineering student of Erode Sengunthar Engineering College, actively participated in a Technical Quiz organized by K Ramkrishnan College of Engineering, Trichy, on 09 March 2023. The one-day technical event provided an opportunity for students to assess and enhance their technical knowledge, analytical thinking, and problem-solving abilities. Participation in such competitive academic activities encourages students to stay updated with emerging engineering concepts and develop confidence in technical discussions and competitions.

Mr. Rahul Kumar Jha, a II Year student of the Department of Mechanical Engineering, Erode Sengunthar Engineering College, participated in the Cisco LABS Crash Course conducted through the EC-Council online learning platform on 02 April 2023.

Mr. Pragadeeshwaran S, a IV Year student of the Department of Mechanical Engineering, Erode Sengunthar Engineering College, participated in a Technical Quiz organized by JIT, Management & Research, Nashik, on 05 September 2022.



Value Added Courses

The Department of Mechanical Engineering, Erode Sengunthar Engineering College, successfully organized a specialized training program titled “Redefine Automotive Design by Ansys” during March 2024.

A total of 60 participants actively engaged in the sessions held on 03.03.2024, 09.03.2024, 10.03.2024, 17.03.2024 and 23.03.2024. The program focused on advanced automotive design techniques using Ansys software, equipping students with practical skills essential for the modern automotive industry.



Thank you!

