



K S R COLLEGE OF ENGINEERING

(APPROVED BY AICTE & AFFILIATED TO ANNA UNIVERSITY)

K.S.R. KALVI NAGAR, TIRUCHENGODE - 637 215



DEPARTMENT OF AUTOMOBILE ENGINEERING

VOL 17

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AUTOMAG NEWSLETTER

JULY 2025 - DECEMBER 2025

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NBA
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PROGRAMMES



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VISION OF THE INSTITUTE

To become a globally renowned institution in Engineering and Management, committed to providing holistic education that fosters research, innovation and sustainable development.

MISSION OF THE INSTITUTE

- **Deliver value-based quality education through modern pedagogy and experiential learning.**
- **Enrich Engineering and Managerial Skills through cutting-edge laboratories to meet evolving global demands.**
- **Empower research and innovation by integrating collaboration, social responsibility, and commitment to sustainable development.**

VISION OF THE DEPARTMENT

To provide quality education, facilitate research and innovation to meet the global demand in automotive industries and society.

MISSION OF THE DEPARTMENT

- **Impart quality education through flexible curriculum and higher learning.**
- **Provide training through automotive industrial collaboration for global needs.**
- **Enhance research and innovation for sustainable environment.**

CHAIRMAN'S MESSAGE



**SHRI. R. SRINIVASAN, B.B.M., M.I.T.E.,
CHAIRMAN OF KSREI**

As we step into new beginnings, I feel immense pride in the future of KSR Educational Institutions, founded on the visionary ideals of Dr. K. S. Rangasamy, who believed education to be a powerful force for transformation. We remain committed to empowering young minds to make a meaningful impact on society.

In a rapidly evolving, technology-driven world, KSR goes beyond traditional learning to foster holistic development, innovation, and leadership. Making an Impact is our mission—guiding students to adapt to change, think critically, and excel with confidence, responsibility, and purpose.

Warm regards,
Mr. R. Srinivasan,
Chairman,
KSR Educational Institutions

VICE CHAIRMAN'S MESSAGE



**SHRI. K. S. SACHIN
VICE CHAIRMAN OF KSREI**

At KSREI, we blend tradition with transformation to build a future shaped by knowledge, innovation, and values. Rooted in academic excellence, our vision prepares students to succeed in a rapidly evolving global environment.

We foster a dynamic learning ecosystem that develops critical thinking, technological skills, and ethical leadership while upholding values of integrity, perseverance, and service. Through advanced educational practices, strong industry collaborations, and global exposure, we nurture future-ready leaders committed to shaping society with wisdom and purpose.

**Warm regards,
Mr. K. S. Sachin,
Vice Chairman,
KSR Educational Institutions**

DEAN'S MESSAGE



**Dr. M. VENKATESAN
DEAN**

As a Dean of KSRCE, I actively play my role to facilitate students to become best academicians, researchers and policy makers. I provide a diverse and inclusive work environment to my colleagues and drive them wherever necessary to play a role in getting utmost national and international agencies support Institution. A collaborative and integrated approach towards teaching, learning and research will be emphasized. I strongly believe that the KSRCE team will overcome the constraints facing to deliver the best Engineering services to the society and reach the desired goals.

**With Regards,
Dr. M. Venkatesan
Dean - K.S.R. College of Engineering**

PRINCIPAL'S MESSAGE



**Dr. P. MEENAKSHI DEVI
PRINCIPAL**

My heartiest welcome to all the young budding Engineers who have joined in "K.S.R. College of Engineering". With the help of highly qualified and dedicated staff members, we will be moulding the students to the required shape which will make them employable. The composite unit of Students, Parents, and Society is our customer. The K.S.R. College of Engineering will strive hard to provide customer satisfaction. In our college, we give top priority to discipline. A series of tests and examinations will be conducted to achieve good performance in the university examinations. An effective Training and Placement (T&P) cell is formed to provide placement to all our students. Importance will be given to extra-curricular and co-curricular activities also.

**With Regards,
Dr. P. Meenakshi Devi
Principal - K.S.R. College of Engineering.**

HOD'S MESSAGE



Dr. R. VENKATACHALAM., M.Tech., Ph.D.
HEAD OF THE DEPARTMENT

As a Head of the Department of Automobile Engineering, I am happy to associate with our faculty and students to bring out this newsletter to display the activities and achievements of our department team in a systematic fashion. In which, our recent activities including seminars, workshops, publications, student projects, and collaborations are highlighted. I also take this opportunity to express my gratitude to our alumni and industry partners, whose support and engagement continue to enrich our journey.

Best Wishes,
Dr. R. Venkatachalam
Professor & Head
Automobile Engineering

EDITORIAL BOARD

- The Editorial Board is a permanent committee of the college entrusted with the responsibility of publishing the college newsletter on a biannual basis. The newsletter functions as an official medium of communication and information dissemination among the faculty, students, and other stakeholders of the institution.
- Editorial Board supports the promotion of academic excellence, creativity, ethical values, and the expression of diverse viewpoints within the institutional framework.

CHIEF PATRON

Thiru. R. Srinivasan - Chairman

PATRONS

Shri. K. S. Sachin - Vice Chairman

Dr. M. Venkatesan - Dean

Dr. P. Meenakshi devi - Principal

CHIEF EDITORS

Dr. R. Venkatachalam - Head of the Department

EDITORS

Dr. S. Neelamegan - Associate Professor

Mr. A. P. Kalidas - Assistant Professor

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- ▶ **Activities of the Department**
- ▶ **Extension & Outreach program organized**

MOU SIGNING

Signed With : **Mr. Aadithya S B, CEO, Usam Cadsoft India Pvt Ltd - Coimbatore.**

Date : **18/07/2025**

The Industry-Institute Interaction Cell of K.S.R. College of Engineering organized the Inking of a Memorandum of Understanding (MoU) with USAM CADSoft India Private Limited, Coimbatore, on 18 July 2025 at Spinel Hall.

The MoU was signed in the presence of Mr. Aadithya S B, CEO, USAM CADSoft India Private Limited, with the objective of strengthening industry-academia collaboration through training programs, internships, industry-based projects, and technical skill development, benefiting students and faculty alike.



FACULTY ACHIEVEMENT



Dr. R. Venkatachalam, Professor & Head, Department of Automobile Engineering, on being selected as a Research Fellow by INTI International University, Malaysia.

As part of this fellowship, a grant support of 8000 RM (1700 USD) is provided towards Article Processing Charges (APC), supporting high-quality research publications and collaborative research projects up to the year 2028. This recognition highlights his academic excellence and contributions to research in the field of Automobile Engineering.

The collaboration with INTI International University strengthens international academic and research partnerships, further enhancing the research culture at KSRCE.

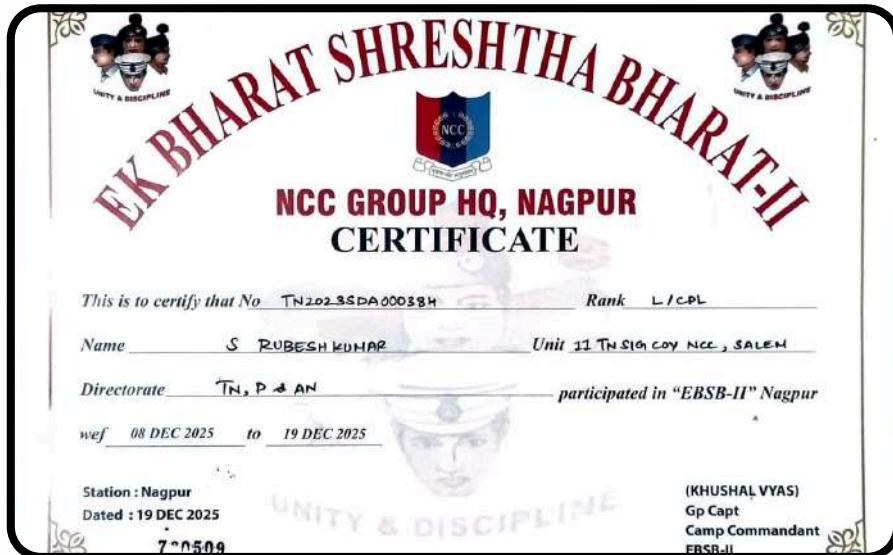
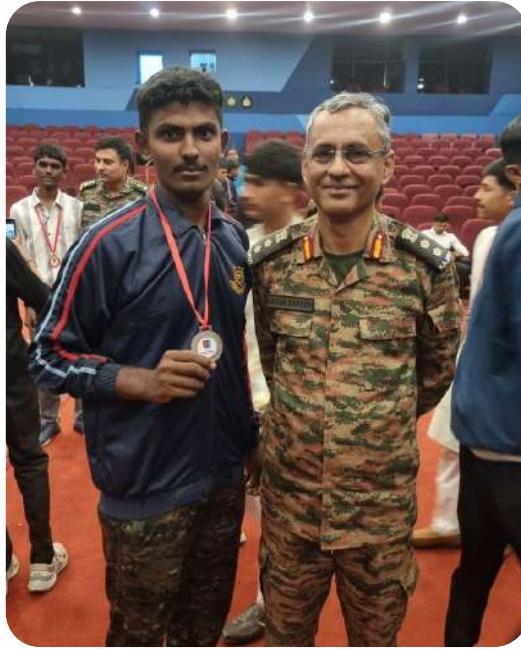
ACHIEVEMENTS OF STUDENTS



Final Year Students of Automobile Department Completed 45 days Internship at NIT Calicut & Trichy

S. No	Name of the Student	Achivement	Awarded by
1.	Mr.Sanjeevi.S	Experimental Analysis & Optimization of CI Engine Performance with Ternary Blends	NIT, Calicut.
2.	Mr.Kirubasankar.B.V	Vibrational Analysis of 3D printed Composite Plate	NIT, Trichy.

ACHIEVEMENTS / AWARDS OF STUDENTS



S. No	Name of the Student	Achivement	Awarded by
1.	Mr.S.Rubeshkumar	Participated in 10 day National Level NCC Camp.	OTA, Nagpur.

FACULTY NPTEL ACHIEVERS



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Congratulations

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DEPARTMENT OF AUTOMOBILE ENGINEERING

COURSE : AUTOMATION IN MANUFACTURING



Dr. R. VENKATACHALAM
Professor & Head

75 ELITE + SILVER



Dr. S. NEELAMAGAM
Associate Professor

77 ELITE + SILVER



Mr. M. SYED THASTHAGIR
Assistant Professor

80 ELITE + SILVER



Mr. A. P. KALIDAS
Assistant Professor

62 ELITE



Mr. S. SOUNDARARAJAN
Assistant Professor

68 ELITE



Mr. K. GOBINATH
Assistant Professor

68 ELITE

Congratulations to our KSRCE Automobile faculty for their NPTEL course!
They have received financial support in the form of a fee refund from the
KSRCE Chairman for their hard work and commitment.

STUDENTS NPTEL ACHIEVERS



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DEPARTMENT OF AUTOMOBILE ENGINEERING

COURSE : AUTOMATION IN MANUFACTURING



KIRUBASANKAR B V
IV YEAR



GOWDHAMSUNDAR A
IV YEAR



PAUL JABASTEEN G
IV YEAR



GOBINATH P
IV YEAR



YOGITH S K
III YEAR



JAYA PRAKESH T
III YEAR



THIRUNAVUWARASU V
III YEAR



VIGNESH L
III YEAR



SIDDIQ RAHMAN M
III YEAR

56 Successfully Completed

54 Successfully Completed

52 Successfully Completed

We are delighted to congratulate the Students on their outstanding
accomplishments in NPTEL for the academic year 2025-2026

STUDENTS NPTEL ACHIEVERS



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PROGRAMMES



Congratulations

GOLD, ELITE SILVER & ELITE GRADE ACHIEVERS

DEPARTMENT OF AUTOMOBILE ENGINEERING

COURSE NAME - AUTOMATION IN MANUFACTURING



DEVADHARSHINI R

61 ELITE



VIMAL S

58 Successfully completed



SANJEEVI S

56 Successfully completed



VIDHYABATHI K

54 Successfully completed



HARIKUMAR T

53 Successfully completed

We extend our heartfelt congratulations to the students for their outstanding accomplishments in NPTEL during the academic year 2025–2026.

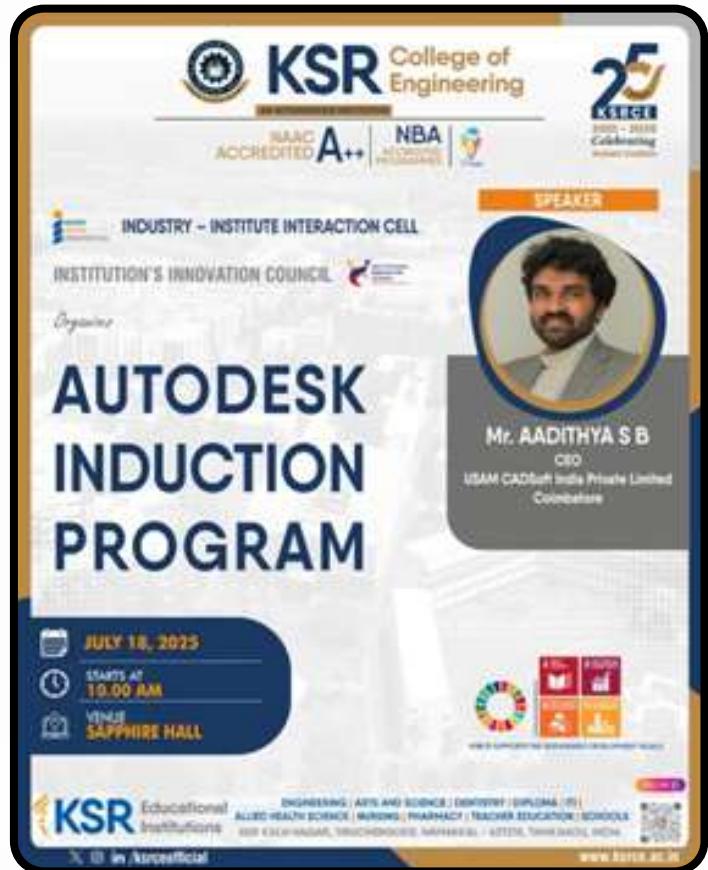
AUTODESK INDUCTION PROGRAM

Resource Person : **Mr. Aadithya S B, CEO, Usam Cadsoft India Pvt Ltd - Coimbatore.**

Date : **18/07/2025.**

In the "Autodesk Induction Program", introduced participants about the Autodesk's key software tools used in design, engineering, and manufacturing.

This program provided an overview of the product portfolio, live demonstrations of tools like AutoCAD, Fusion 360, and Revit, and interactive sessions to help participants understand features, applications, and further learning resources.



DESIGN, INNOVATE, AUTOMATE : THE NEW AGE OF MECHANICAL ENGINEERING

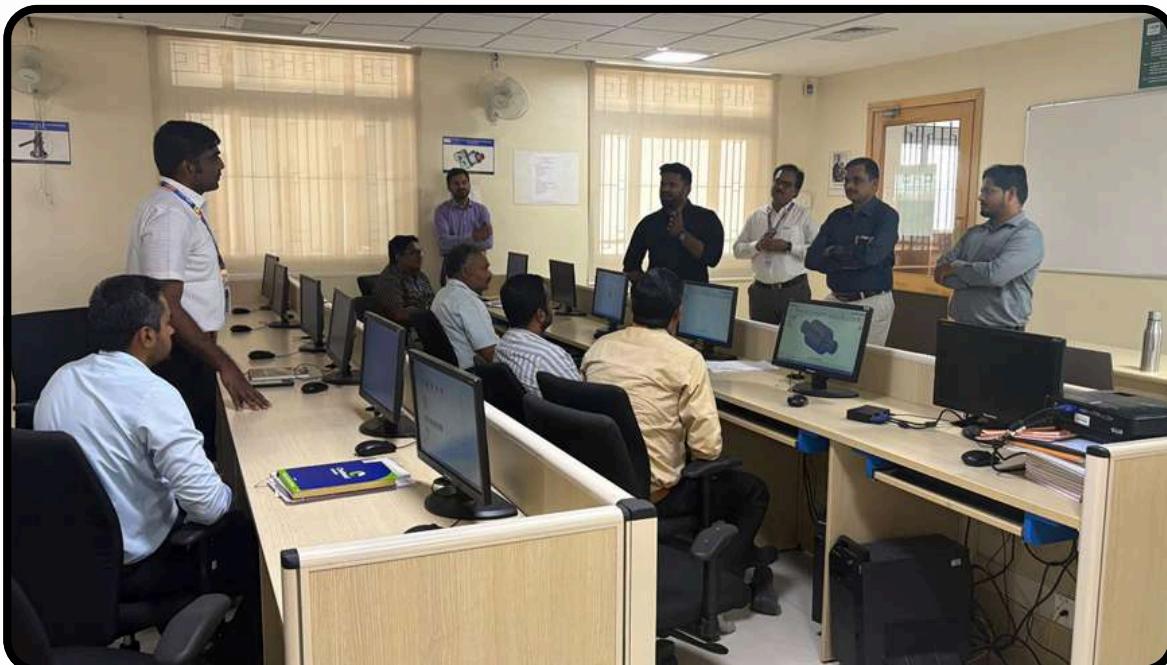
Resource Person : **Mr. T. R. Ramshankar, General Manager, Robomatic - Coimbatore.**

Date : **19/07/2025.**

The seminar focused on the transformative trends shaping modern mechanical engineering, emphasizing the pivotal roles of design, innovation, and automation. It highlighted how advancements in technology are redefining traditional mechanical engineering practices to meet contemporary industrial challenges.

Key Topics Covered by the expert :

- Design in Mechanical Engineering:
- Innovation as a Catalyst:
- Automation and Industry 4.0 and 5.0



CRASH WORTHINESS AND IMPACT SAFETY IN ELECTRIC VEHICLES

Resource Person : **Dr. K. Raja, Chairman/SAEISS-Salem Division, Associate Professor, KSRCT.**

Date : **19/07/2025.**

The seminar highlighted the importance of crashworthiness and impact safety in electric vehicles, focusing on protecting occupants and batteries during collisions.

It covered key design features, battery safety measures, post-crash systems, and recent innovations such as AI-based crash simulations and fire-resistant battery enclosures.



SHAPING CAREERS IN SAFETY AND FIRE ENGINEERING OPPORTUNITIES

Resource Person : **Dr. M. Prabu, Professor and Head, Department of SFE, KSRCE.**

Date : **26/07/2025.**

The seminar was conducted at Mount Everest Hall, KSRCE. The session began with a welcome address, followed by an insightful talk by the Chief Guest, Dr. M. Prabu, on career opportunities, industry relevance, and educational excellence in safety and fire engineering.

The seminar provided students with clarity on professional pathways and reflected the department's vision of becoming a centre of excellence.



INNOVATING THROUGH DESIGN, MANUFACTURING & AUTOMATION: INTERNSHIP EXPERIENCE IN AUTOMOBILE ENGINEERING

Resource Person : **Mr. Shankar G, Executive Director-United Soft tech, Salem.**

Date : **09/08/2025.**

The internship presentations highlighted the importance of industrial exposure in preparing students for future professional roles. The training provided them with valuable practical insights and hands-on experience, complementing their academic knowledge.

Students demonstrated good understanding of industrial processes. Some presentations showcased commendable use of case studies and live project work. Need for better time management and deeper analytical evaluation was noted in some cases. Overall, the internship training successfully enhanced employability skills.



AUTOMOTIVE TECHNOLOGY - A DOMAIN SPECIFIC INSITES

Resource Person : **Dr. R. Venkatachalam, Professor & Head, Department of Auto, KSRCE.**

Date : **23/08/2025.**

The seminar on "Automotive Technology - Domain Specific Insights" focused on recent developments, trends, and challenges in the automotive sector. It covered advancements in powertrain systems, electric and hybrid vehicles, connected and autonomous mobility, safety technologies, emission norms, and sustainable manufacturing.

The Professor also offered valuable insights into generative design and the manufacturing domain.



AUTOMOBILE QUEST

Resource Person : Dr. R. Venkatachalam, Professor & Head, Department of Auto, KSRCE.

Date : 13/09/2025.

The Department of Automobile Engineering successfully organized an SAE Quiz Competition with 40 students from the third and final years. Participants were divided into two teams—the SAE Collegiate Club and the E-Kart Club—with 20 students each.

The quiz consisted of six rounds covering automobile engineering basics, SAE vehicle design, and competition-related topics. Both teams displayed strong technical knowledge and enthusiasm. Out of 58 questions, the SAE Collegiate Club team won the competition by a narrow margin of 2 points.



WORKSHOP

HANDS ON WORKSHOP WITH CATIA/NX

Resource Person : **Mr. K. R. Santhoshkumar, Manager, Macbro Technology India Pvt. Ltd.,**

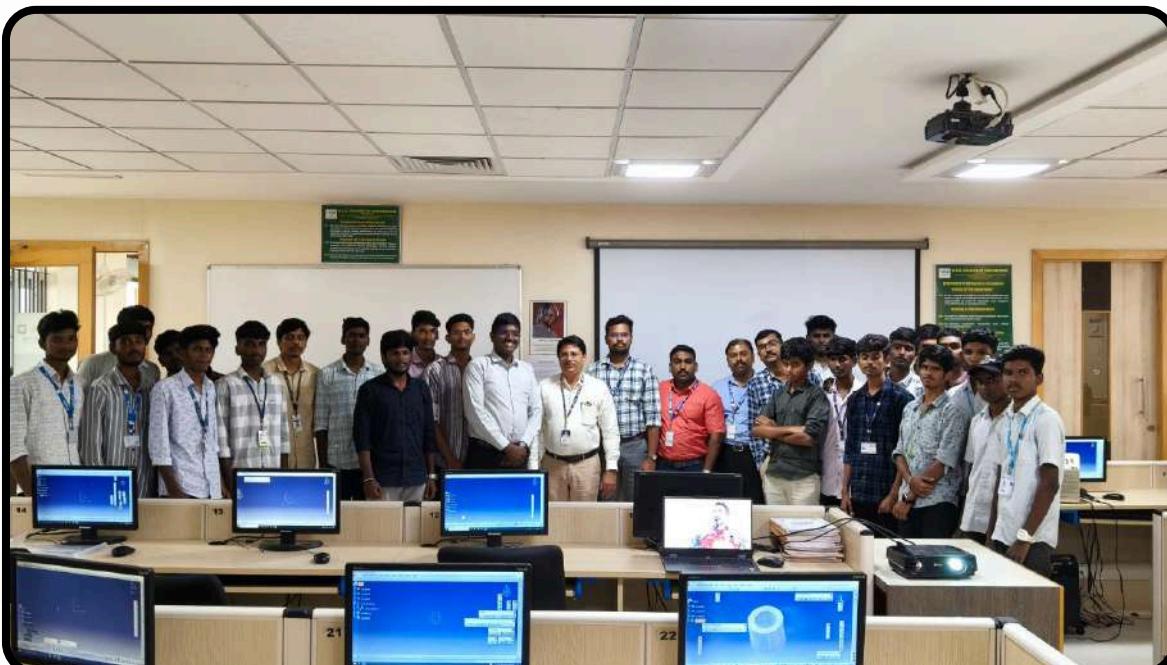
Date : **09/10/2025.**

The Department of Automobile Engineering organized a one-day hands-on workshop titled "Boost Your Design Skills: CATIA / NX" on 09.10.2025, with the participation of 81 students from various engineering departments.

The session covered modern industry design requirements, software demonstrations, 3D modeling, drafting, and assembly workflows. Participants gained hands-on experience under expert guidance, and the resource person discussed industry expectations, career opportunities in CAD/CAM, and essential skills for design engineers.

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Proudly Presents
NATIONAL LEVEL TECHNICAL SYMPOSIUM
SPRING FEST 2K25
Organized by **TURBO FEST 2025**
WORKSHOP ON
**Boost Your Design Skills:
One-Day Hands-On
Workshop with
CATIA/NX**
RESOURCE PERSON

SANTHOSHKUMAR K R
Manager
Talent Acquisition
MACBRO Technology India pvt.ltd.
ERODE
SEINDIA Society of Automotive Engineers INDIA
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KSR SUPPORTS THE SUSTAINABLE DEVELOPMENT GOALS
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SYMPOSIUM

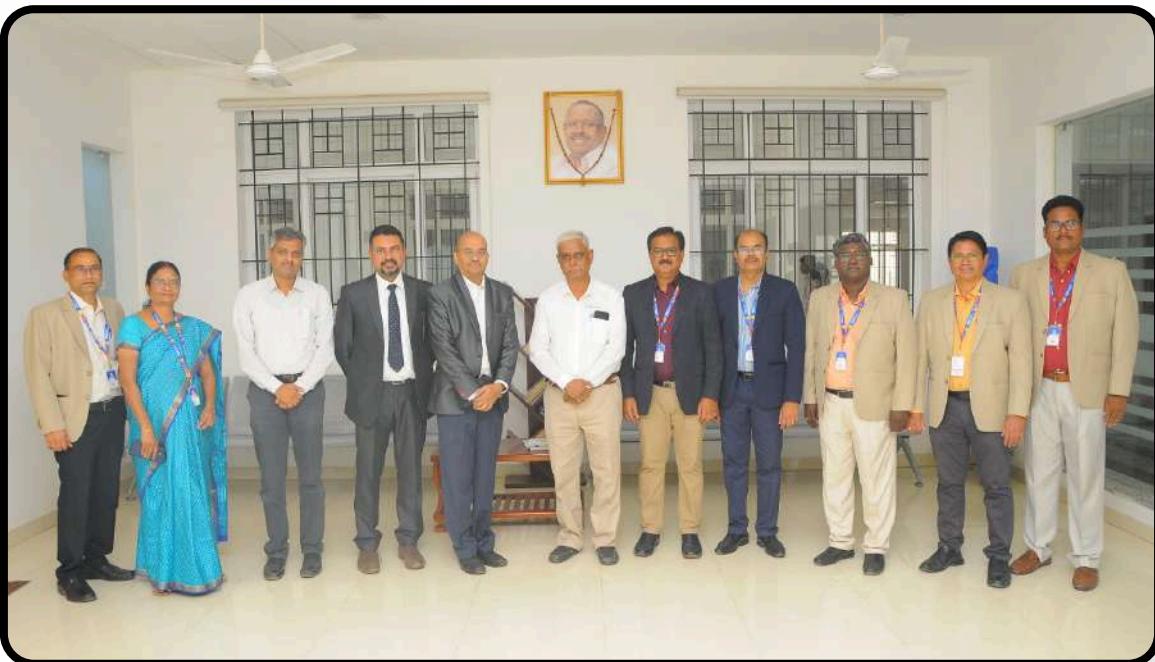
TURBO FEST 2025 / SPRING FEST 2025

Resource Person : **Mr. Aniruddha Kadkol, Executive Director in PWC, Mumbai.**

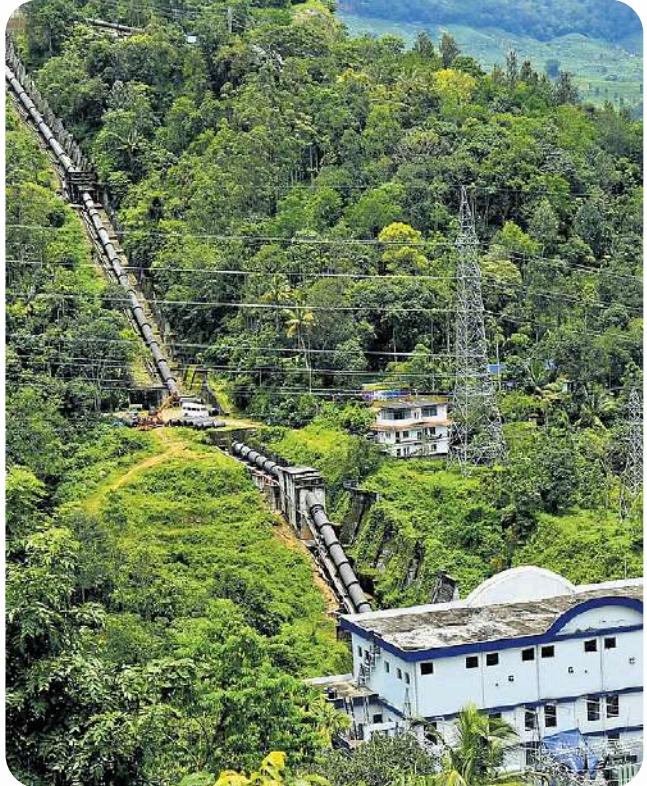
Date : **11/10/2025.**

The Departments of Automobile, Civil, Mechanical, and Safety & Fire Engineering of K.S.R. College of Engineering jointly organized a National Level Technical Symposium - SPRING FEST 2K25 on 11 October 2025 at the Platinum Hall, KSRCE.

The event aimed to provide a platform for engineering students to showcase their technical skills, exchange innovative ideas, and interact with industry experts.



INDUSTRIAL VISIT



Students of II, III, and IV Year, along with faculty members, undertook an Industrial Visit to Kanthalloor and Munnar, Kerala from 03.09.2025 to 06.09.2025. A total of 46 students participated in the visit.

The major highlight of the visit was the **KSEB Pallivasal Hydroelectric Power Plant**, one of the oldest hydroelectric projects in Kerala. Students gained valuable exposure to the working principle of hydroelectric power generation, including water storage, turbine operation, generator functioning, and power transmission. The visit provided a clear understanding of renewable energy utilization, plant safety measures, and the role of hydro power in sustainable energy development.

OUTREACH PROGRAM

HARMONY IN NATURE ; MARCHING TOWARDS A GREENER TOMORROW

Resource Person : Sub Inspector of Police Town and Traffic, Tiruchengode.

Date : 09/08/2025

An awareness rally on *“Harmony in Nature: Marching Towards a Greener Tomorrow”* was organized on 09/08/2025.

Students, faculty, and volunteers actively participated by carrying placards and raising slogans on environmental protection, tree plantation, water conservation, and sustainable living.

The rally created awareness among the public and concluded with a pledge to work towards a cleaner and greener future



OUTREACH PROGRAM

TRAFFIC AWARENESS – HELMET USE, ROAD RULES, NEGLIGENCE CONSEQUENCES

Resource Person : **Dr. R. Venkatachalam, Professor & Head, Department of Auto, KSRCE.**

Date : **13/09/2025**

The Department of Automobile Engineering, K.S.R. College of Engineering, conducted a **Traffic Awareness Programme** on 13 September 2025 at **Varapalayam**. The programme highlighted the importance of helmet usage, strict adherence to road rules, and the consequences of negligent driving.

The initiative aimed to educate the public on road safety and encourage responsible behavior to reduce road accidents.



OUTREACH PROGRAM

ENVIRONMENT AWARENESS - PLASTIC-FREE LOCALITY CAMPAIGN

Resource Person : **Dr. R. Venkatachalam, Professor & Head, Department of Auto, KSRCE.**

Date : **13/09/2025.**

The Department of Automobile Engineering, K.S.R. College of Engineering, in association with the Centre for Sustainable Development Goals, organized a **Plastic-Free Locality Campaign** on 13 September 2025 at **Koottapalli**.

The campaign created awareness about the harmful effects of plastic and encouraged the use of eco-friendly alternatives. Students actively promoted plastic waste reduction and sustainable living practices.





Thank
You