



# DEPARTMENT OF AUTOMOBILE ENGINEERING

## PROGRAMS

**B.E. AUTOMOBILE ENGINEERING**

**B.E. MECHANICAL ENGINEERING (AUTOMOBILE)**



# AutoXploR

**OCTOBER'24,  
VOLUME 4, ISSUE 4**



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# EDITORIAL BOARD

## Editors



Dr. J. Venkatesan  
Professor & HoD



Mr. R. Sakthivel  
Assistant Professor



Dr. K. Paul Durai  
Assistant Professor



Mr. M.R. Kaleeswaran  
IV Year AUT

## Students



Mr. V. Shivabalaaj  
III Year AUT

# DEPARTMENT VISION & MISSION

## Vision

To be recognized as a distinguished department renowned for producing competent and responsible mechanical engineers specialized in automobile engineering, meeting the dynamic demands of automotive industries on national and global scale, nurtured by exceptional facilities and support.



## Mission

- Igniting the passion of individuals for learning, research, and innovation by establishing collaborative learning through dynamic teaching methodologies, hands-on experiences, and research opportunities, to contribute in the advancement of automotive technologies.
- Advancing the competency of individuals through comprehensive academic curriculum, state-of-the-art-laboratory facilities, and training on critical thinking skills to comprehend industry requirements and provide innovative solutions in the automotive and associated domains.
- Providing engineering and technological solutions for challenges such as sustainability, safety, and efficient transportation at national and global levels, through interdisciplinary collaboration, and cutting-edge research in collaboration with industry partners, government agencies, and academic institutions.



# PROGRAMMES ORGANIZED

## WORKSHOP

The Internal Quality Assurance Cell (IQAC), SVCE in collaboration with the Department of Automobile Engineering, SVCE, organized a one day **workshop on “Improving Workplace Efficiency: Practical Approach Through Visual Management and Continuous Improvement”** on October 19, 2024 in Bio Tech Seminar Hall with the aim of fostering a quality culture and standardizing lab practices.

Faculty members, lab technicians, and coordinators from various departments attended the event.



The poster is a rectangular invitation with a blue border and rounded corners. At the top, it features logos for SVCE (Sri Venkateswara College of Engineering), SVCE-IQAC (Consciousness for Quality), and the Institution Innovation Council. The main text is centered and reads: "Internal Quality Assurance Cell - SVCE in Association with DEPARTMENT OF AUTOMOBILE ENGINEERING. Solicit your esteemed presence for the One Day Workshop on Improving Workplace Efficiency: Practical Approach Through Visual Management and Continuous Improvement. By Mr. Saw Ganesan, Alumnus - AUT : 2002-06, Life member, Quality Circle Forum of India (QCFI). Scheduled on October 19, 2024, 09:30 AM to 3:00 PM. Venue QMC Hall, SVCE. ALL ARE CORDIALLY INVITED." A portrait of Mr. Saw Ganesan is on the left. Social media icons and a QR code are at the bottom.

**SVCE** Sri Venkateswara College of Engineering  
Autonomous Institution, Affiliated to Anna University, Chennai  
Approved by the AICTE, Accredited by NAAC

**SVCE-IQAC** Consciousness for Quality

**Internal Quality Assurance Cell - SVCE**  
in Association with  
**DEPARTMENT OF AUTOMOBILE ENGINEERING**

Solicit your esteemed presence for the  
**One Day Workshop**  
on  
**Improving Workplace Efficiency:**  
**Practical Approach Through Visual Management and Continuous Improvement**

By  
**Mr. Saw Ganesan**  
Alumnus - AUT : 2002-06  
Life member, Quality Circle Forum of India (QCFI)

**Scheduled on**  
October 19, 2024  
09:30 AM to 3:00 PM

**Venue**  
QMC Hall, SVCE

**ALL ARE CORDIALLY INVITED**

CONNECT @ 

# PROGRAMMES ORGANIZED



**Chief guest introduction by Dr. V.Ganesh, Asso. Prof.**



**Presentation by Chief Guest Mr. Saw Ganesan**



**Presentation by Mr. C. Gangadharan, Lab instructor / AUT**



# PROGRAMMES ORGANIZED



**Lab Visit**



**Certificate Distribution**



**Group Photo**

# FACULTY CONTRIBUTIONS

## Blood Donation Camp

The **NCC cadets (Army, Navy, and Air Wing)** of Sri Venkateswara College of Engineering, in collaboration with Sri Sathya Sai Seva Organization and Government Aringar Anna Memorial Cancer Hospital & Research Institute, Kanchipuram, organized a **Blood donation camp** on October 9, 2024, at SVCE. The event, held under the guidance of Capt. Dr. A. Bhaskaran, NCC Coordinator, and CTOs Dr. M. Sukumar (Army), Mr. R. Sakthivel (Navy), and Mr. J. Sivaramapandian (Air Wing) and enthusiastic participation. A total of 70 units of blood were collected, exceeding the initial goal of 50 units. Volunteers received refreshments and certificates for their contributions.



Pooja Ceremony



Registration



Blood Donation



# FACULTY CONTRIBUTIONS

## World Standards Day

**Dr. K. Paul Durai, Assistant Professor**, Mr. Gowtham P G , Mr. Arya B G, Mr. John Gill G and Ms. Joshika M B.E. Automobile Engineering students attended **World Standards Day** program at Kalaivanar Arangam, Chennai on October 14,2024.



Group Photo

# STUDENTS PARTICIPATION

## PALS Tinkathon

**Mr. Arya B G** participated in the **PALS Tinkathon** event, which involved a series of challenging activities designed to qualify students for the Residential Student Workshop.


These activities included design, drawing, calculations, lateral thinking, and a mini hands-on project requiring teams to solve problems within strict time and material constraints. The Tinkathon was held on October 1, 2024, at the Student Activity Centre (SAC), Indian Institute of Technology, Chennai.



# STUDENTS PARTICIPATION

## Competitive Exam

**Mr. Deepak Karthik Kumar**, a first-year B.E. Mechanical Engineering (Automobile) student, received the German A1 Certificate during the exam held on October 17, 2024.



**GOETHE-ZERTIFIKAT A1**  
**START DEUTSCH 1**

**A1** A2 B1 B2 C1 C2

Deepak Karthik Kumar  
Vorname und Name / First Name and Surname

20.02.2006  
Geburtsdatum / Date of birth

17.10.2024  
Prüfungstermin / Date of exam

Chennai  
Geburtsort / Place of birth

Chennai  
Prüfungsort / Place of exam




ERGEBNIS - RESULT	erreichte Punktzahl / achieved score	maximale Punktzahl / maximum score
Hören - Listening	16,60	25,00
Lesen - Reading	16,60	25,00
Schreiben - Writing	13,28	25,00
Sprechen - Speaking	19,92	25,00
Gesamtpunkte - Total Result	66	100

Prädikat - Grade: ausreichend - pass

Chennai, 04.11.2024  
Ort, Datum / Location, date

1420-ASA1-0002052704  
Nummer / Number

Bitte verifizieren Sie die Gültigkeit des Zertifikats hier: [www.goethe.de/verify](http://www.goethe.de/verify)  
Please verify the validity of the certificate here: [www.goethe.de/verify](http://www.goethe.de/verify)





# STUDENTS PARTICIPATION

## Sports

**Mr. Puneeth Vignesh G**, a second-year Automobile Engineering student, represented our college's Table Tennis (Men) team and delivered an impressive performance, securing the **Runner-Up position in the Anna University Zonal Tournament** held at Apollo Engineering College on October 19, 2024.



# PROGRAM OUTCOMES (POs)

Students in the Automobile Engineering program should, at the time of their graduation, be able to

1. Apply the knowledge of mathematics, science, engineering fundamentals and concepts of Civil Engineering to the solution of complex engineering problems. **(Engineering knowledge)**
2. Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences. **(Problem analysis)**
3. 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. **(Design/Development of Solutions)**
4. 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 for complex problems. **(Conduct Investigations of Complex Problems)**
5. Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations. **(Modern Tool Usage)**
6. 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. **(The Engineer and Society)**
7. Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. **(Environment and Sustainability)**
8. Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. **(Ethics)**
9. Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. **(Individual and Team Work)**
10. 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. **(Communication)**
11. 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. **(Project Management and Finance)**
12. Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change. **(Life-long Learning)**

# PROGRAM SPECIFIC OUTCOMES (PSOs)

Students in the Automobile Engineering program should, at the time of their graduation, be able to

- **PSO1:** Design, analyze, and optimize automotive systems and components using principles of mechanical engineering and specialized knowledge in automobile engineering.
- **PSO2:** Integrate advanced technologies into automotive systems, including electric and hybrid powertrain, autonomous driving systems, vehicle-to-vehicle communication, and advanced driver assistance systems.
- **PSO3:** Plan, conduct, and interpret tests and experiments to validate the performance, reliability, and safety of automotive systems and components.

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Automobile Engineering graduates during the first few years of graduation will:

- **PEO1:** Graduates will have acquired a strong foundation in mechanical engineering principles and specialized knowledge in automobile engineering, adapted to technological advancements leading to successful careers in the automotive and manufacturing industries.
- **PEO2:** Graduates will showcase the ability for innovation and flexibility in embracing technological progress and evolving industry dynamics, fostering a commitment to ongoing learning, culminating further academic pursuits and research endeavors.
- **PEO3:** Graduates will understand the ethical, social, and environmental implications and adhere to the principles of ethical conduct, sustainability, and corporate responsibility to become responsible professionals and successful entrepreneurs.

## PROGRAMS

- **B.E. Automobile Engineering**
- **B.E. Mechanical Engineering (Automobile)**

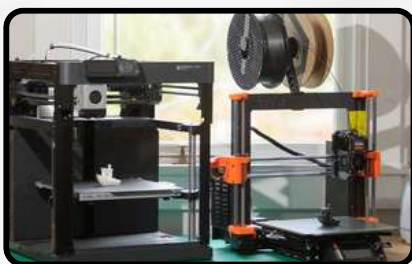




## B.E. MECHANICAL ENGINEERING (AUTOMOBILE)

(With a special focus on hybrid and electric vehicles)

**EARN DEGREE  
WITH MULTIPLE CAREER  
OPPORTUNITIES**



### Why Mechanical Engineering (Automobile) at SVCE?

- **First College in Tamil Nadu** to introduce this program from the **Academic Year 2024-25**
- The College is an **ISO certified** institution and is accredited by **National Assessment and Accreditation Council (NAAC) with A+ Grade**
- Students can explore **multiple career opportunities** in leading mechanical and automobile industries in India and Abroad
- Special focus on **Hybrid & Electric Vehicles**
- **Semester-in-Abroad** programme in third year
- Exposure to real-world challenges and practices through **Semester-in-Industry** programme
- Earn **Honours / Minor degree** along with basic degree
- Guidance for 100 % placement
- **Full fee waiver** for Government School students under WINGS and SEEDS scholarship schemes
- **Management scholarships** on the basis of Merit Means, Merit-cum-Means, Economic Means, Performance in Sports and Performance in NCC activities

### Honours and Minor Degree

- In addition to the basic degree B.E. Mechanical Engineering (Automobile), the students can get an additional Honours Degree or Minor Degree by earning additional credits.

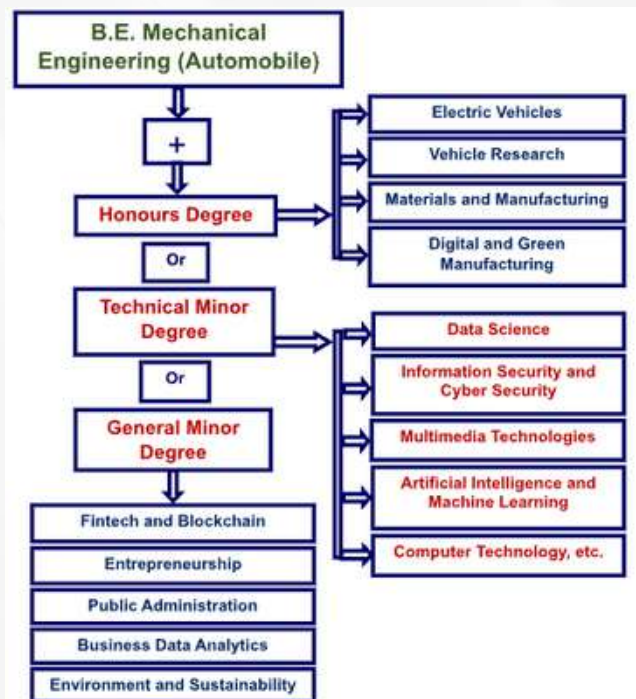
### Placement

An average of more than **95%** eligible students of Automobile Engineering got placed in reputed core and other companies



### Higher Studies

- Students are provided with **supportive training** pertaining to their future plans for doing a master's.
- Students pursue their master's in the field of Engineering and Technology and also in Business Administration and Management in reputed Universities worldwide including Clemson University-USA, Wisconsin Madison University-USA, RWTH Aachen University-Germany, Ingolstadt University-Germany, University of Sheffield-UK, Oxford Brookes University-UK, etc.



**APPLY NOW**

