

DEPARTMENT OF AUTOMOBILE ENGINEERING
PROGRAM OFFERED : B.E. AUTOMOBILE ENGINEERING

AutoXploR



e-NEWSLETTER
March, 2024

EDITORIAL TEAM

Faculty



Dr J Venkatesan
Professor & HoD



Dr V Ganesh
Associate Professor &
AHoD



Mr R Sakthivel
Assistant Professor



Mr A K Boobalasantilraj
Assistant Professor

Students



Mr Rohith R R Menon
IV Year AUT



Mr P Abhinandan
III Year AUT

DEPARTMENT OF AUTOMOBILE ENGINEERING

The Department of Automobile Engineering was started in the year 1999 with sanctioned intake of 30. The intake was increased from 30 to 60 in the year 2009. The department has well-qualified and experienced faculty and staff members of proven ability and administrative skills. It has well equipped state-of-the-art laboratories that cater to the needs of the students. The department is actively engaged in teaching and research in the areas of Automobile Engineering and related areas. The department is accredited for three years in the year of 2018 by National Board of Accreditation.

Vision

To be a forerunner in producing Competent and Responsible Engineers in the field of Automobile and Associated areas to meet the ever-changing needs of the Global Automotive Industry and the Society.

Mission

Vision achieved by,

1. Providing the state-of-the-art laboratory facilities to train the learners to cater to the changing needs of the industries and the society.
2. Providing opportunities for the learners to bring out their total personality and emphasizing ethical values.
3. Preparing the learners to meet the growing challenges of the automotive industry and to fulfill the diverse societal needs of our nation.
4. Providing research and intellectual resources to address contemporary and complex problems of the industries and to advance interdisciplinary research and applications.
5. Providing compassionate and diverse environment to encourage the students to become innovators and job providers.

Program Educational Objectives

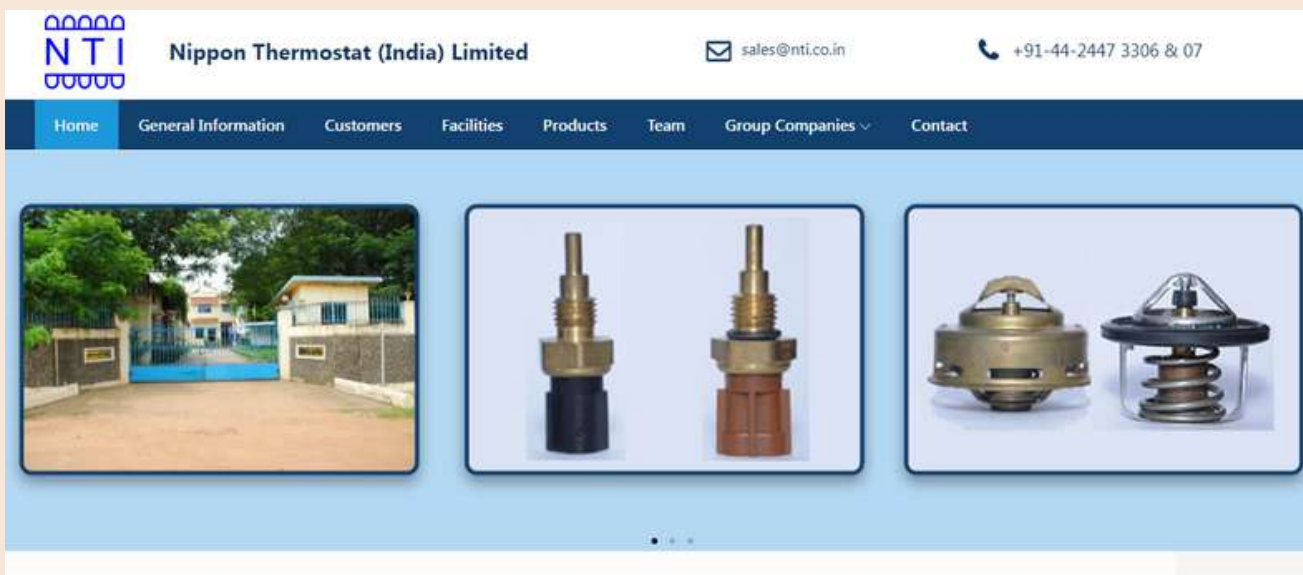
PEO1: To apply technical and professional skills in Automobile Engineering to meet the demanding and growing challenges of the industries.

PEO2: To apply professional and interpersonal skills by continuously focusing on learning towards higher education and research.

PEO3: To direct learners to become successful entrepreneurs by inculcating professionalism, responsibility, and ethics.

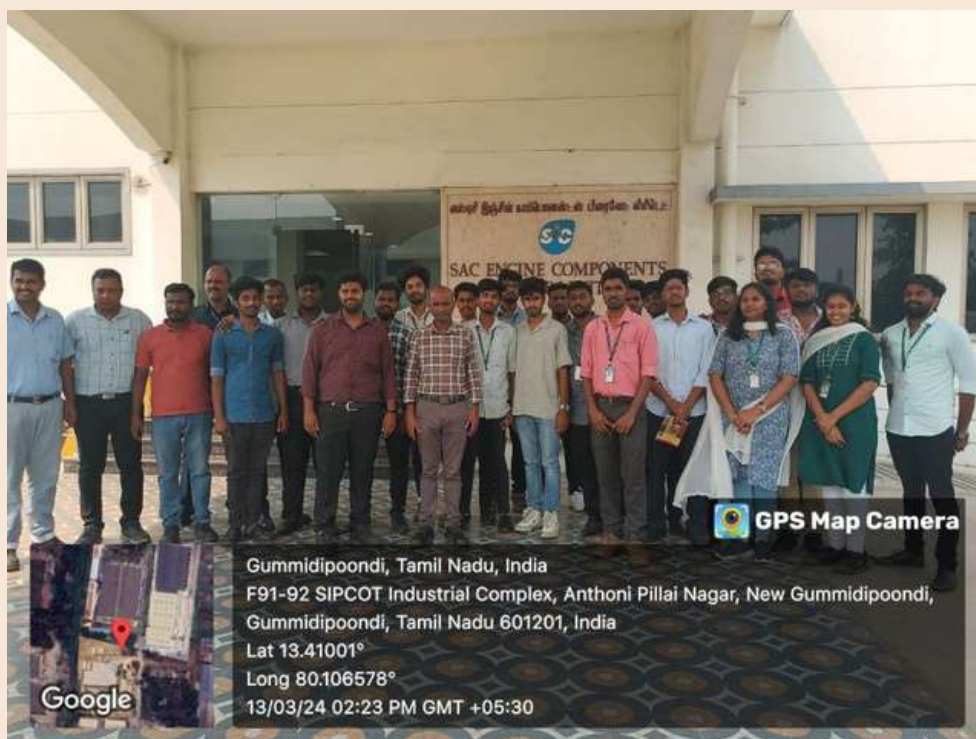
INDUSTRIAL VISIT

II year B.E. Automobile Engineering students visited to Nippon Thermostat Limited, Gummidipoondi Limited on 8.03.2024. accompanied by Dr. G. Ravi, Assistant Professor, Department of Automobile Engineering. During the visit, students gained comprehensive insights into the intricate world of thermostat requirements and their manufacturing processes, delving into various types with meticulous detail.



INDUSTRIAL VISIT

III Year B.E. Automobile Engineering students visited SAC Engine Components Private Limited on 13.03.2024, accompanied by Mr. R. Sakthivel, Assistant Professor in the Department of Automobile Engineering. During the visit, students engaged in discussions with industry experts, gaining insights into the intricate manufacturing process of engine components, with a particular focus on camshafts for automotive engines.



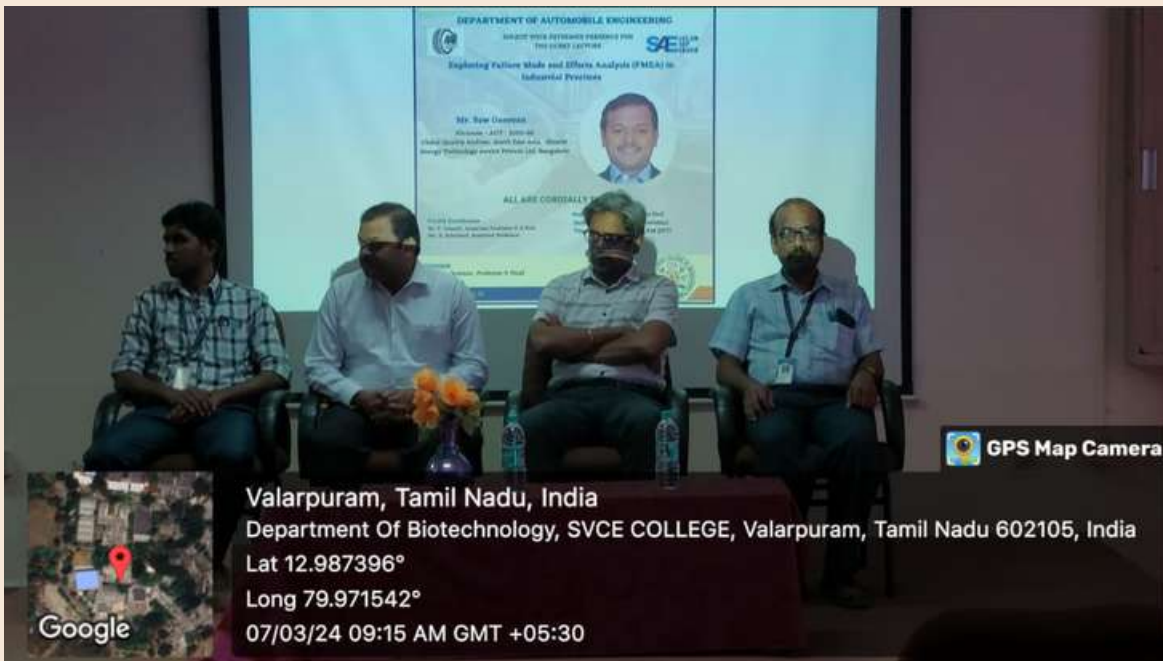
ASSOCIATION ACTIVITIES

The Department of Automobile Engineering at Sri Venkateswara College of Engineering has conducted the "Road Safety Awareness Programme for Riders" every last week since September 2023. Dr. V. Ganesh, Associate Professor, delivered the session on 27.03.2024 at Auto components laboratory, witnessing enthusiastic participation from college staff in the transport section.

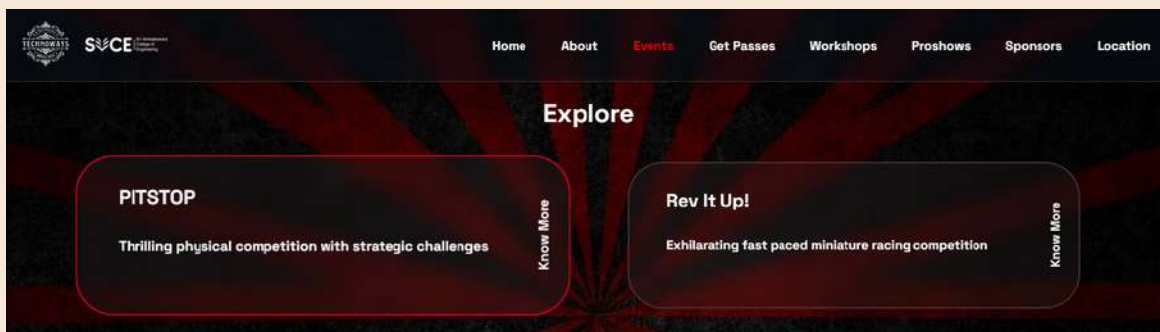


ASSOCIATION ACTIVITIES

The Department of Automobile Engineering of Sri Venkateswara College of Engineering organized a Guest Lecture on "Exploring Failure Mode and Effects Analysis (FMEA) in Industrial Practices" by Mr. Saw Ganesan, Alumnus (2002-06) and Global Quality Auditor, South East Asia, Hitachi Energy, Bangalore. The event took place on 7th March 2024 in the Bio Tech Conference Hall. During the session, students had the opportunity to interact with the speaker and clarify their doubts.



Automobile Engineers (AAE) & SAE Collegiate Club Of SVCE in Association with Students' Council of SVCE has organized the Technoways - A National Level Tech Fest organized on 15th & 16th March 2024.



One Day workshop on Basics of Automotive Tuning conducted by ICD Tuning, Chennai during the Technoways - A National Level Tech Fest organized on 15th March 2024 in Automotive Components laboratory.



The screenshot shows a website interface for a workshop. At the top, there is a navigation menu with links for Home, About, Events, Get Passes, Workshops, Proshows, and Sponsors. The main heading is "Basics of Automotive tuning". Below this, the event details are listed: "15th March", "9:30AM - 12:30PM", and "Component Laboratory(Automobile)". A "Description" section contains three bullet points: "The workshop covers all the basics of automotive tuning.", "The reason for tuning and the merits and demerits will also be discussed.", and "Participants can ask their doubts at the end of the session.". A "Requirements" section contains one bullet point: "Need to be an automotive enthusiast or a person pursuing automotive related career".





Memento has given by Dr. J. Venkatesan, Professor & HoD / AUT to Guest speaker for his wonderful session.



Participants have received the certificate from the Guest speaker

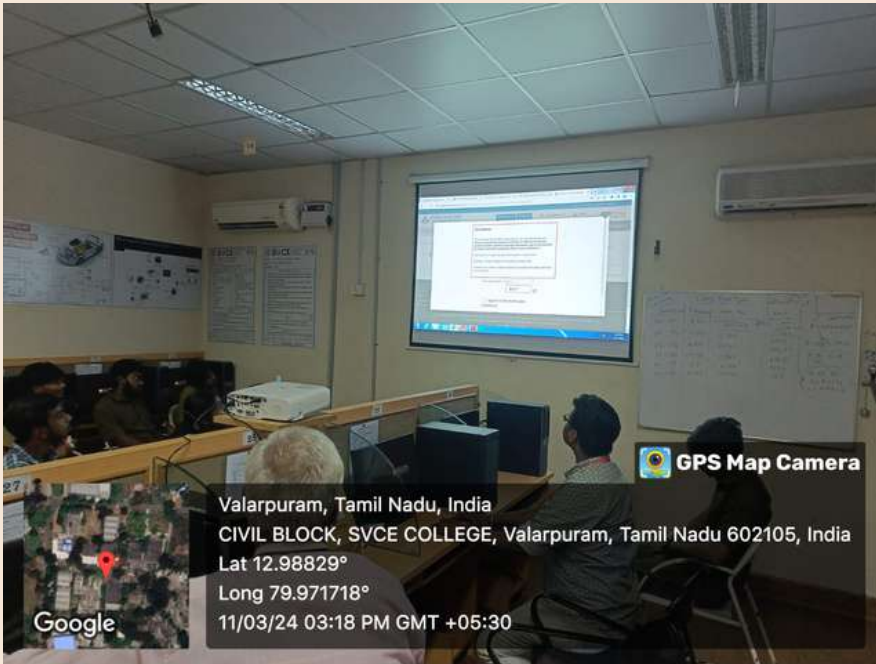
Our college team TRAXION OFFROAD RACING members comprising of 13 Automobile, 2 Mechanical Engineering students participated in the Aravalli Terrain Vehicle Championship India (ATVC India)- 2024 competition, conducted by INFI LEAGUE Motorsports. The event took place at PCET's Nutan Maharashtra Institute of Engineering and Technology in Talegaon, Pune from 20.03.2024 to 24.03.2024.

51 teams competed in the ATVC 2024, 30 of those teams used internal combustion engines, while the remaining teams used electric off-road vehicles. Our college team concluded the competition with a 9th place finish out of 21.



ASSOCIATION ACTIVITIES

Dr. K. Paul Durai, Assistant Professor has given awareness session to students members of the Standards Club regarding, Understanding the backgrounds behind the standardizing procure and given idea to create the standards for the other systems in Auto CADD lab on 11.03.2024



Dr. V. Ganesh, Associate Professor has delivered the hand on experience session to II Year Automobile Engineering students in Auto components Laboratory on 26.03.2024



Dr. V. Ganesh, Associate Professor has delivered the hand on experience session to aspiring school students in Auto components Laboratory during Experience SVCE program held on 19.03.2024



FACULTY CONTRIBUTIONS

Dr. G. Ravi published a technical paper "Optimization of design and fuel parameters of a DI CI engine through desirability function and RSM for lower emissions and clean environment" in the Journal of the Energy Institute, Elsevier, Vol 114, 101607, 2024. The article, Co-authored by Dr. Saravanan Subraman, Dr. Paul Durai Kumar and Dr. Lakshmi Narayana Rao G, explores the application of RSM and the Desirability function Method in the analysis of optimized results, and contributes valuable insights in the field.



The image shows the cover of the Journal of the Energy Institute, Volume 114, June 2024, 101607. The cover features the Elsevier logo on the left, the journal title in the center, and a small graphic of the journal's logo on the right. The main title of the article is "Optimization of design and fuel parameters of a DI CI engine through desirability function and RSM for lower emissions and clean environment". The authors listed are Ravi Govindasamy^a, Saravanan Subramani^b, Paul Durai Kumar^a, and Lakshmi Narayana Rao G^c. The cover also includes the journal's ISSN and a small graphic of the journal's logo.

Journal of the Energy Institute
Volume 114, June 2024, 101607

Optimization of design and fuel parameters of a DI CI engine through desirability function and RSM for lower emissions and clean environment

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Lakshmi Narayana Rao G^c

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^b Department of Mechanical Engineering, Sri Venkateswara College of Engineering, Sriperumbudur, TN, India
^c QIS College of Engineering and Technology, Ongole, Andhra Pradesh, India

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FACULTY PARTICIPATIONS

Mrs. S Revathi, Junior Assistant, Department of Automobile Engineering has participated and successfully completed the Women Entrepreneurship Development Programme organized by the Entrepreneurship Promotion and Incubation Center (EPIC) of Sri Venkateswara College of Engineering from February 19 to March 18, 2024.



INDUSTRY INSTITUTE INTERACTIONS

Dr. J. Venkatesan Professor & HoD / AUT along with Dr. S. Ramesh Babu Professor & HoD /MEC and other professors from Department of Automobile and Mechanical Engineering interacted with HRs from Mahendra Ltd., Royal Enfield., TVS Private Ltd. and Zoho Software during the Mock Placement held on 24.03.2024.



STUDENTS PARTICIPATIONS

Seminars

Mr. Yeswanth K III Year Automobile Engineering students have given seminar for the topic “Electric vehicle fundamentals” during Electric and Hybrid Vehicle class on 12.03.2024



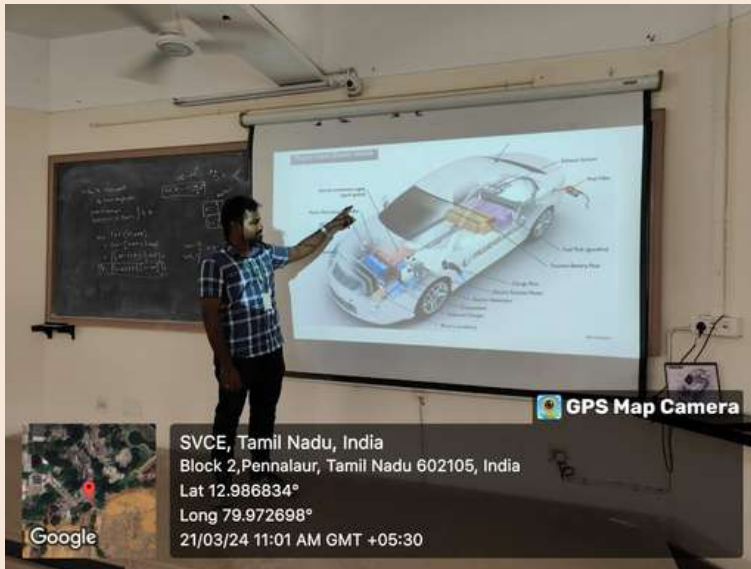
Mr. Kaviraj and Mr. John Hill, III Year Automobile Engineering students have given seminar for the topic “Steering system design using Python” during Automotive Chassis Class on 18.03.2024



STUDENTS PARTICIPATIONS

Seminars

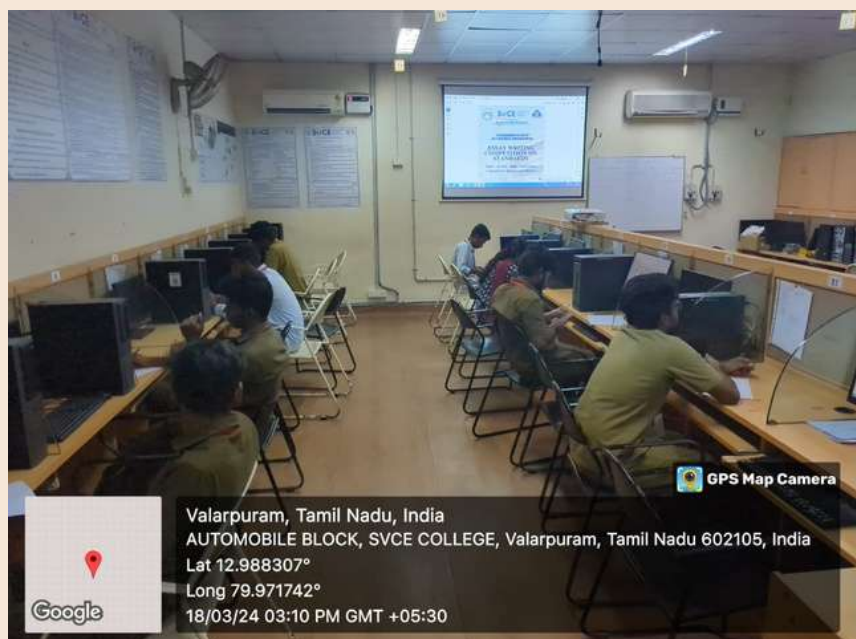
Mr. Elango III Year Automobile Engineering students have given seminar for the topic “Electric vehicle Architecture” during Electric and Hybrid Vehicle class on 18.03.2024



STUDENTS ACHIEVEMENTS

Essay Writing Competition

I, II and III Year Students members from Standards Club have participated the Essay Competition on 18.03.2024 in Auto Cadd Laboratory.



STUDENTS ACHIEVEMENTS

PALS Innawah 2023-24

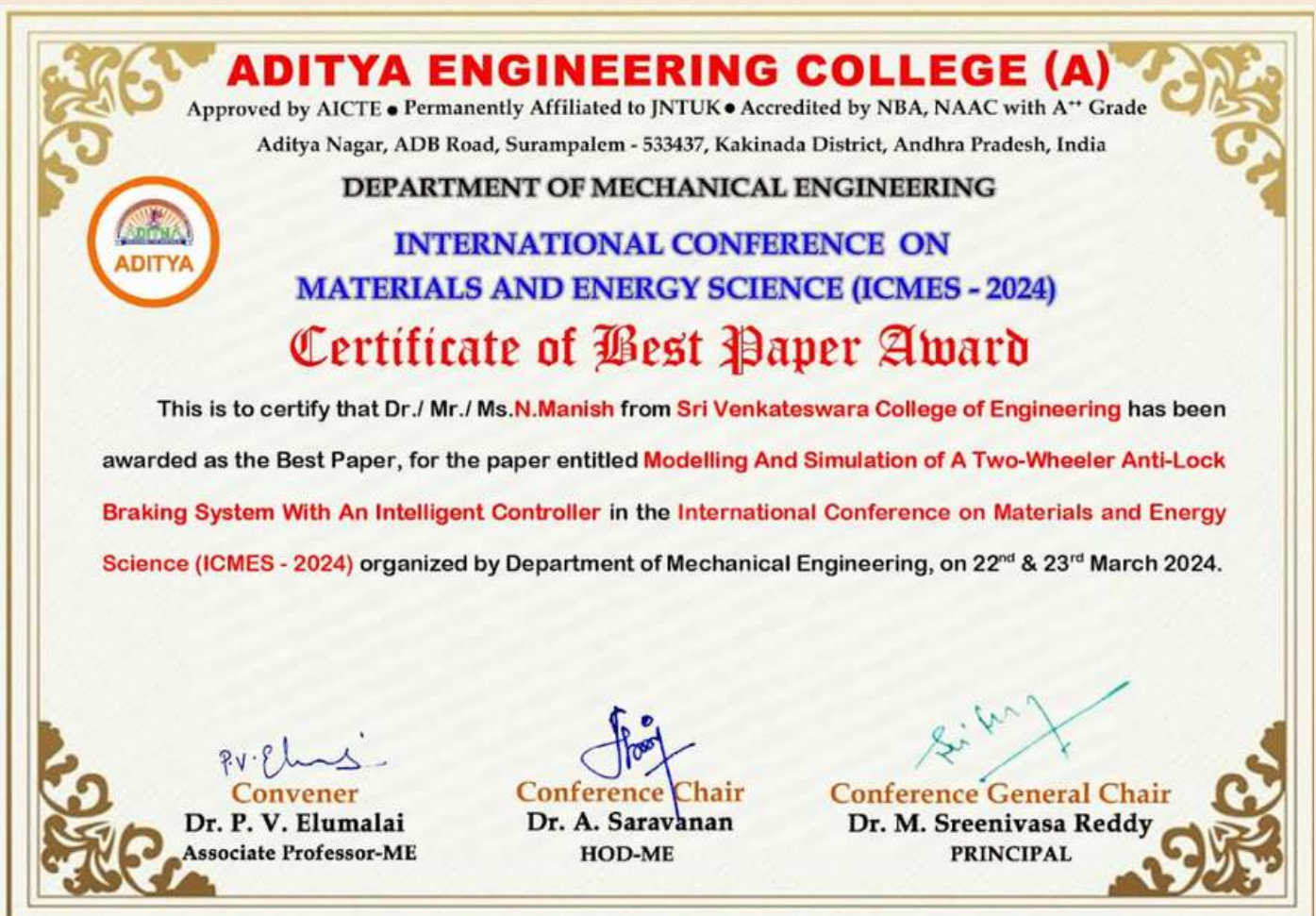
Mr. A. Abishek A, Mr. Rohith R R Menon and Mr. shri krishnaa G (IV Year Students) under the mentorship of Mr. Boobalasantilraj A K and Mr. Sakthivel R, Assistant Professor were shortlisted for Finals of PALS innoWAH! 23-24, competition - Startup Solutions for Sustainability Challenges. They participated in the finals and presented their idea and prototype on "ENHANCING VEHICLE HANDLING THROUGH STEER BY WIRE SYSTEM" at IIT Madras, organized by PALS, IITM on 23rd March 2024.



STUDENTS ACHIEVEMENTS

Conference- Best Paper Award

Mr. N. Manish N, Mr. S. Shyam Kumar and Mr. A. Abishek has received Best Paper Award for the paper titled "Modelling and Simulation of a Two Wheeler Anti Lock Braking System with an Intelligent Controller" under the guidance of Mr. R. Sakthivel, AP/AUT, Dr. V. Ganesh, ASP/AUT and Mr. A.K. Boobalasesenthilraj AP/AUT in the International Conference on Materials and Energy Science (ICMES-2024) conducted by the Department of Mechanical Engineering, Aditya Engineering College on 22nd & 23rd March 2024.



STUDENTS ACHIEVEMENTS

Placement

Placement Report (2024 Batch):

Mr. Manish N and Mr. Shyam Kumar IV Year Students got an offer in M/s Prospira with a salary of 3.5 LPA as a Graduate Engineer Trainee (GET).



Mr. Manish N
IV Year AUT



Mr. Shyam Kumar
IV Year AUT



STUDENTS ACHIEVMENTS

Placement

Mr. Kumaran S, Mr. Senthil Kumar S and Mr. Kalaiselvan P, IV Year Students got an offer in M/s. Shriram Values with a salary of 3.0 LPA as a Graduate Engineer Trainee (GET).



Mr. Kumaran S
IV Year AUT



Mr. Kalaiselvan P
IV Year AUT



Mr. Senthil Kumar
IV Year AUT

