



KCG
COLLEGE OF TECHNOLOGY



DEPARTMENT OF AUTOMOBILE ENGINEERING

AUSUMBAIL

NEWS LETTER 2021-2022

**May 2022,
Volume - 3**

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2. Mr.S. Mathavan, Assistant Professor, Automobile Engineering

About Us

The Department of Automobile Engineering was established in 2018 with an initial intake of 60 students. It boasts a faculty of highly qualified professionals and cutting-edge laboratories designed to meet industry standards. The department actively supports staff and student engagement in professional activities through SAE INDIA, offering value-added trainings, workshops, and seminars to enhance practical knowledge in their respective fields.

Students are encouraged to undertake individual projects to enhance their technical expertise, complemented by mandatory in-plant training during summer and winter breaks. The college's Inferno racing team, overseen by expert faculty and industry representatives, provides a unique platform for students to stay abreast of automotive trends and gain practical experience. The department also maintains off-road bikes and cars, fostering a passion for design technology among students.

Additionally, KCG College maintains strong partnerships with leading OEMs such as BMW, Ford, and Hyundai, who sponsor fully equipped vehicles and engines for student study purposes. With the automotive industry advancing rapidly—highlighted by innovations like Tesla's futuristic cars and the imminent reality of autonomous vehicles—there is a growing demand for skilled engineers capable of spearheading sustainable, fuel-efficient solutions. KCG College is recognized as the premier institution for Automobile Engineering in Chennai, emphasizing its commitment to shaping future automotive leaders.

Vision

The department of Automobile Engineering aims at an achieving academic excellence in Engineering, Technology and research by providing unique educational experience which enables the students to cater to the needs of the society.

Mission

- Impact effectual teaching-learning and training in automobile domain.
- Equip the state of the art and technology and equipment to manufacture automobile components.
- Encourage research relevant to automotive engineering technology for the advantage of the society.
- Inculcate engineering methods, knowledge and professional standards in automobile engineering.

Program Educational Objectives (PEOs)

- Excel in their professional career in automobile industry.
- Display research contribution with highest professional and ethical standards.
- Apply the mathematical, scientific and engineering knowledge acquired in automobile engineering in growth of the industry.
- Demonstrate professionalism and team work in their career.
- Adapt to contemporary, technological and industrial trends by involving in life-long learning.

Program Outcomes (POs)

PO	GRADUATE ATTRIBUTE
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 modelling 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.

Program Specific Outcomes (PSOs)

1. The knowledge of humanities, basic sciences and management principles in the automobile industry.
2. The knowledge of engineering sciences in field of automobile engineering for the development of sustainable society.
3. The attitude of lifelong learning and ethical practices in their profession to assess societal, health, safety, legal and cultural issues

Events Organized

ACMA

Mr. R. Shravan Kumar, Assistant Manager, Physical Logistics, BMW Plant, Chennai, will be conduct the event Online Webinar on Application of Lean Manufacturing in Automobiles on 29.01.2022

SAE INDIA

Dr. V. Dilli Babu, Assistant Professor, KCG College of Technology, Chennai, will be conduct the event One Day Workshop on Wheels and Rims – Two-wheeler Hands on Training on 22.04.2022

Mr. S. Mathavan, Assistant Professor, KCG College of Technology, Chennai, will be conduct the event Auto Vaps – Two-wheeler Hands on Training on 17.09.2022

IET

Mr. S. Mathavan , Assistant Professor, KCG College of Technology, Chennai, will be conduct the event Neural Check Vehicle Diagnostics Workshop on [10.09.2022]

Faculty Participations

Faculty as participation in faculty development / training activities / STTPs

Sl.No	Name of the Faculty	Title of programme	Venue / Place	Mode	Dates
1	Dr T. Mothilal	Learning Analytics Tools	NPTEL -AICTE	Online	July – OCT 2021
		Applications of Artificial Intelligence and Machine Learning	SRM Institute of science and Technology	Online	04/10/2021 To 08/10/2021
2	Dr. Z. Edward Kennedy	Trends and challenges in E V Ecosystem	KCG college of technology	Online	14/02/2022 to 28/02/2022
		Recent advances and applications in mechanical Engineering	SRM TRP Engineering College	Online	02/03/2022 to 07/03/2022
		Applications of Artificial Intelligence and Machine Learning	SRM Institute of science and Technology	Online	04/10/2021 to 08/10/2021
		IIT PALS	IIT PALS /MS Ashok Leyland Limited	online	25/10/2021 to 27/10/2021
3	Dr. T. Raja	Advances in Materials sciences	Sree vidyanikethan college	Online	01 to 05 March2022
		Applications of Artificial Intelligence and Machine Learning	SRM Institute of science and Technology	Online	04/10/2021 To 08/10/2021October 2021
		Emerging trends in automotive and energy systems	Sree Vidyanikethan Engineering College	Online	August 2021 23/08/2021 to 27/08/2021
		IIT PALS	IIT PALS /MS Ashok Leyland Limited	online	25/10/2021 to 27/10/2021October 2021
4	Dr.V.Dillibabu	Trends and challenges in E V Ecosystem	KCG college of technology	Online	14/02/2022 to 28/02/
		Advances in Materials sciences	Sree vidyanikethan college	Online	01 to 05 March2022
		Patent Drafting for Beginners	NPTEL	Online	Jan-Feb 2022

		Applications of Artificial Intelligence and Machine Learning	SRM Institute of science and Technology	Online	04/10/2021 to 08/10/2021
		IIT PALS	IIT PALS /MS Ashok Leyland Limited	online	25/10/2021 to 27/10/2021
5	Mr. Arul Inigo Raja M	Applications of Artificial Intelligence and Machine Learning	SRM Institute of science and Technology	Online	04/10/2021 to 08/10/2021
		Advances in Materials sciences	Sree Vidyanikethan college	Online	01 to 05 March2022
6	Mr. Britto Sebastiraj E	Advances in Materials sciences	Sree vidyanikethan college	Online	01 to 05 March2022
		Recent advances and applications in mechanical engineering	SRM TRP Engineering College	Online	02/03/2022to 07/03/2022
		Outcome based education & NBA accreditation	Nehru Institute Of Engineering And Technology	offline	12/08/2021 to 13/08/2021
		Emerging trends in automotive and energy systems	Sree Vidyanikethan Engineering College	Online	23/08/2021 to 27/08/2021
		Applications of Artificial Intelligence and Machine Learning	SRM Institute of science and Technology	Online	October 2021
7	Mr. V. Shridhar	Advances in Materials sciences	Sree vidyanikethan college	Online	March2022
		Recent advances and applications in mechanical engineering	SRM TRP Engineering College	Online	March2022
		Additive manufacturing processes and its applications	Sri Manakula Vinayagar Engineering College	online	Aug 2021
		Emerging trends in automotive and energy systems	Sree vidyanikethan engineering college	Online	August2021
		Applications of Artificial Intelligence and Machine Learning	SRM Institute of science and Technology	Online	October 2021

		IIT PALS	IIT PALS/MS Ashok Leyland Limited	online	Oct 2021
8	Mr.S Mathavan	Recent advances and applications in mechanical engineering	SRM TRP Engineering College	Online	02/03/2022to 07/03/2022
		Two wheeler preventive Maintenance And Repair	Hero – Chennai learning center	offline	01-03-2022 to 14 -03-2022
		Emerging trends in automotive and energy systems	Sree Vidyanikethan engineering college	Online	23/08/2021 to 27/08/ 2021
		Applications of Artificial Intelligence and Machine Learning	SRM Institute of science and Technology	Online	04/10/2021 To 08/10/2021
9	Mr. M.Nelson Premkumar	Advances in Materials sciences	Sree vidyanikethan college	Online	01 to 05
		Recent advances and applications in mechanical engineering	SRM TRP Engineering College	Online	02/03/2022to 07/03/2022
		Applications of Artificial Intelligence and Machine Learning	SRM Institute of science and Technology	Online	04/10/2021 To 08/10/2021
		Electric And Hybrid Vechiles-Design integration and challenges	AICTE	ONLINE	27/12/2021 to 31/12/2021
10	Mr. S. Rajesh Kannan	Recent advances and applications in mechanical engineering	SRM TRP Engineering College	Online	02/03/2022to 07/03/2022
		Applications of Artificial Intelligence and Machine Learning	SRM Institute of science and Technology	Online	04/10/2021 To 08/10/2021
11	Mr. S. Hari Krishnan	Recent advances and applications in mechanical engineering	SRM TRP Engineering College	Online	02/03/2022 to 07/03/2022

		Applications of Artificial Intelligence and Machine Learning	SRM Institute of science and Technology	Online	04/10/2021 To 08/10/2021
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Faculty Achievements

Paper Publication

Mr. V A Shridhar, A Comparative Study with J48 and Random Tree Classifier for Predicting the State of Hydraulic Braking System through Vibration Signals, SAE Technical papers, October, 2021, doi:10.4271/2021-28-0254. [Scopus]

Patent

1. Patent Title: Magnetic Induction Fluid Heater and Heating Vessel

Inventor Name: Dr. V. Dillibabu, Dr. T. Mothilal

Application No./Design No. 202241017781

Applied Date: 28/3/2022

2. Patent Title: Hot compression molding machine for making fiber reinforced composites

Inventor Name: Dr. V. Dillibabu, Dr. T. Mothilal

Application No./Design No. 202241001919

Applied Date: 13/1/2022

3. Patent Title: A Pulsed Direct Current (PDC) Fed Electrocoagulation System and Method for Waste Water Treatment

Inventor Name: Dr. T. Mothilal

Application No./Design No. 2021103245

Applied Date: 10/6/2021

Faculty Achievements



Students Achievements

S.No.	Student Name	Event	Organized by	Date	Position Secured
1.	Thanuj R	Yuva Innovators Challenge	KCG College of Technology, Chennai	30.07.2021	Participated
2.	Vikas J	Yuva Innovators Challenge	KCG College of Technology, Chennai	30.07.2021	Participated
3.	Vignesh K	Power Lifting Competition	Chennai District Power Lifting Association, Chennai	19.12.2021	3 rd Place
4.	Franklin Raj	Wrestling Championship, 2022	Tamilnadu State Arm Wrestling Championship, Mohamed Sathak College of Arts and Science, Chennai	04.05.2022	1 st Place
5.	Ritheeshwaran and Team	Project competition Green Technology	INNOCON22, KCG College of Technology	14.05.2022	2 nd prize
6.	Suraj Narayanan and team	Bicycle Design Competition	SAE INDIA & Bannari Amman Institute of Technology, Satyamangalam	21.05.2022 & 22.05.2022	1 st Place

7.	Karthikeyan	Paper presentation	National level Technical Symposium, Chennai Institute of Technology	23.05.2022	Participated
8.	Suraj Narayanan	Digital Twin” project of PALS-INNOVA	PALS IIT	June,2022	2 nd place & Cash prize Rs.9,000
9.	Madih Mohammed	Quiz on Entrepreneurship	KCG College of Technology,Chennai	13.08.2022	Participated
10.	Suraj Narayanan	Drone Design Challenge	Smart India Hackathon 2022, Ministry of Education and Autodesk	25.08.2022 to 26.08.2022	1 st Place & Cash Prize Rs.1,00,000
11.	Nithish and team	Football Competition	Overall Tamilnadu Football Tournament	09.10.2022	Runner position & Cash Prize Rs.8000
12.	Syed Mohammed	110 meter Hurdles	Anna University Zonal	06.12.2022	3 rd place
13.	Karthikeyan Y	Student Achievement Awards 2022	IET, Chennai	11.12.2022	Consistent Teamwork Award
14.	Surajnarayanan	PENTATHON MAKEATHON 2022	IET, Chennai	11.12.2022	Excellent Innovator Award

15.	Shaik Kameel	THINK CREATE ENGINEER program, project titled "Designing a model to use laptop while lying on bed"	IIT PALS	12.12.2022 to 14.12.2022	Participated
16.	Thanuj R and Ahamed Sharief	PALS-NextGen 3D Hackathon for the presentation of "Chassis Analysis"	IIT PALS	2022	Participated
17.	Thanuj	Virtual world sensor model	SAE- AUTONOM22	2022	11 th position
18.	Suraj Narayanan	Sustainability	PALS at IIT	2022	2 nd Place & Cash Prize Rs.10,000
19.	Suraj Narayanan	PENTATHON MAKEATHON 2022	Institution of Engineering and Technology	2022	1 st Prize
20.	Vishnu and Karthikeyan	Pragati 2022- Design and Development of Smart and Multipurpose Street Vending Cart	India Start up Revolution	2022	1 st Place & Cash Prize Rs.30,000



Placement

- i. Chandru R , Kumareswaran, Raj Kumar S K, Sasidharan M, was selected in Automotive Robotics (India) Pvt.Ltd on 19.07.2022.
- ii. Frederick Donald C R , Mohammed Mudhasser M , Visvesh R was selected in GAVS Technologies Pvt. Ltd on 16.03.2022.
- iii. Aswin C G, Suresh Krishna T was selected in Cognizant.
- iv. Lakshmanan R , Vignesh S, Nagaraj B was selected in Drive Tech Intelligence Pvt. Ltd. On 16.03.2022
- v. Sooriya Narayanan C P was selected on Minda Corporation Limited on 21.10.2022.