



# K.S.R. COLLEGE OF ENGINEERING

(APPROVED BY AICTE & AFFILIATED TO ANNA UNIVERSITY)

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

**25** YEARS  
2001 - 2026  
Celebrating  
Academic Excellence

**VOL 16**

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*DEPARTMENT  
OF  
AUTOMOBILE ENGINEERING*

# **AUTOMAG NEWSLETTER**

**JANUARY 2025 - JUNE 2025**

NAAC  
ACCREDITED **A++**

NBA  
ACCREDITED  
PROGRAMMES



## VISION OF THE INSTITUTE

We envision to achieve status as an excellent educational institution in the global knowledge hub, making self-learners, experts, ethical and responsible engineers, technologies, scientists, managers, administrators, and entrepreneurs who will significantly contribute to research and environment-friendly sustainable growth of the nation and the world.

## MISSION OF THE INSTITUTE

To inculcate in the students' self-learning abilities that enable them to become competitive and considerate engineers, technologists, scientists, managers, entrepreneurs, and administrators by diligently imparting the best of education, nurturing environmental and social needs.

To foster and maintain a mutually beneficial partnership with global industries and Institutions through knowledge sharing, collaborative research, and innovation.

## VISION OF THE DEPARTMENT

Education and research to meet the need of global automotive industry and society.

## MISSION OF THE DEPARTMENT

- Quality education through flexible curriculum, research and self-learning.
- Training via automotive industry for a sustainable society and social development.





## CHAIRMAN'S MESSAGE



**SHRI.R.SRINIVASAN, B.B.M., MISTE.,**

**As we stand on the brink of new beginnings and boundless possibilities, I am filled with an immense sense of pride and optimism about what we can achieve together at KSR Educational Institutions. Our founder, Dr. K S Rangasamy, laid a strong foundation rooted in the belief that education is the most powerful tool to transform lives. Carrying forward his legacy, we remain committed to not just educating but empowering young minds to make a meaningful impact in the world.**

**In today's fast-paced, technology-driven society, the challenges are as dynamic as the opportunities are great. It is imperative for education to transcend traditional learning and encompass the development of holistic, innovative, and critical thinking skills. At KSR, we strive to equip you, our students, with the capabilities to not only adapt to changes but to drive them. We are dedicated to nurturing a generation of leaders, innovators, and thinkers who are ready to take on global challenges with local sensibilities.**

**Making an Impact is not just a phrase—it's our mission. It's about inspiring each one of you to pursue your passions with determination and a sense of responsibility towards the betterment of society. We encourage you to dream big, push boundaries, and question the status quo. Our campus is a melting pot of ideas where your creativity and ambitions are nurtured, allowing you to flourish in ways you never imagined.**

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

## VICE CHAIRMAN'S MESSAGE



**SHRI K. S. SACHIN**

At KSREI, we stand at the intersection of tradition and transformation, committed to shaping a future driven by knowledge, innovation, and values. While our roots are firmly grounded in a legacy of academic excellence, our vision extends beyond boundaries, preparing students to excel in an ever-evolving global landscape.

Our goal is to create a dynamic learning ecosystem that fosters critical thinking, technological prowess, and ethical leadership. We envision KSREI as a hub of intellectual growth, where students are empowered with 21st-century skills while embracing the timeless virtues of integrity, perseverance, and service.

Looking ahead, we aim to integrate cutting-edge advancements in education, strengthen industry collaborations, and expand global opportunities for our students. With a deep commitment to holistic development, we continue to nurture future leaders who will shape society with wisdom and purpose. Together, we build the future—rooted in values, driven by vision.

Warm regards,  
Mr.K.S.Sachin,  
Vice Chairman,  
KSREI 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.

Excellent infrastructure facilities and good learning atmosphere is an added advantage of this great Institute. I hope all the students admitted here will enjoy the four years of study. Let us all work hard to produce the most competent scientists, engineers, Entrepreneurs, Managers and researchers through Quality Education.

WITH REGARDS,  
DR. P. MEENAKSHI DEVI  
PRINCIPAL - K.S.R. COLLEGE OF ENGINEERING.

## HOD'S MESSAGE



**DR. R. VENKATACHALAM, M.TECH., PH.D.**  
**HOD**

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**





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# ACHIEVEMENTS / AWARDS OF STUDENTS



S. No	Name of the Student	Achievement	Awarded by
1.	<u>Yogith S, Kavin M</u>	I prize in <u>Pitstop</u> Event	<u>Kongu Engineering College</u>
2.	<u>Thirunavukarasu V, Ramakrishna S</u>	II prize in Bid for Speed Event	<u>Kongu Engineering College</u>
3.	<u>Subhaswar M and Deepakraj G</u>	Best Innovation Project	KSRCE AIR Summit 2025
4.	<u>Chandramohan P, Nambiraja S, Venkatesh B and Srisanjay D</u>	Best Poster Presentation	KSRCE AIR Summit 2025

## PLACEMENT HIGHLIGHTS

S. No	Name of the Student	Name of the Placed Company	Salary /Year CTC
1.	SRISANJAY D	Motherson Automotive Technologies & Engineering	2.76 LPA
2.	SUBASHWAR N	Adrasti Technologies Pvt Limited & C.R.I. Pumps Private Limited	4.00 LPA & 2.16 LA
3.	AKASHKUMAR PV	BSH Home Appliances	3.73 LPA
4.	BAVISH V	BSH Home Appliances	3.73 LPA
5.	JITHENDRAN S	DataMites	1.20 LPA
6.	MATHAN RAJ S	DataMites	1.20 LPA
7.	DINESHKUMAR V	Sakura Auto parts India Private Limited & TAFE Access Limited	2.37 LPA & 2.16
8.	YOGARAJ C P	Sakura Auto parts India Private Limited	2.37 LPA
9.	DINESH S	Sakura Auto parts India Private Limited	2.37 LPA
10.	GOPINATH D	Sakura Auto parts India Private Limited	2.37 LPA
11.	NAVEEN V	Sakura Auto parts India Private Limited	2.37 LPA
12.	PUGAZHENTHI S	Sakura Auto parts India Private Limited	2.37 LPA
13.	SAKTHIVEL M	Sakura Auto parts India Private Limited	2.37 LPA
14.	NAMBIRAJA S	TAFE Access Limited	2.16 LPA
15.	VENKATESH B	TAFE Access Limited	2.16 LPA
16.	KAMALESH V S	Innoknowvex & Sakura Auto parts India Private Limited	5.50 LPA & 2.37 LPA



## ACTIVITIES OF THE DEPARTMENT



An industrial visit was organized on 16.02.2025 to Lakshmi Automobiles & Body Works, Kaithackal, Adoor, Kerala, to gain insights into the bus body building process

### OUTCOME

The Industrial Visit identified promising ideas with potential for further development, some of which are being considered for research projects, internships, and incubation support with statrup ideas.

# ACTIVITIES OF THE DEPARTMENT

## PHOTOS



An SAE Awareness Seminar was held on 22.02.2025, led by Dr. K. RAJA, Chairman of the Salem Division, SAE Southern Section, to enlighten students on the objectives and benefits of SAE activities.




## OUTCOME

It was an eye opening session for students to become a member of SAE and also to participate in various competitions and Design context to equip themselves as an Automobile engineer.



## RESEARCH PUBLICATIONS


### (JOURNAL/CONFERENCE/ PATENTS /BOOKS/BOOK CHAPTER)

1.	<p><b>R. Venkatachalam</b>, M. Boopathi, P. C. Murugan, K. Venkatesh Raja, “Enhancing CI engine efficiency with onboard oxygen concentrator: An experimental study and RSM optimization” <b>Thermal Science and Engineering Progress</b>,  <a href="https://www.sciencedirect.com/science/article/abs/pii/S2451904925004408?via%3Dihub">https://www.sciencedirect.com/science/article/abs/pii/S2451904925004408?via%3Dihub</a></p>	Web of Science	
2.	<p>Neelamegan Sengodan, Sureshkumar Theivasigamani, Saravanan Kanthasamy Ganesan, and P. Rajesh “Optimizing Spark Ignition Engine Performance and Emission Control with Spike Neural Networks Using Gasoline–Ethanol Blends” 2550004(2025) SPIN ISSN (print): 2010-3247   ISSN (online): 2010-3255  <a href="https://doi.org/10.1142/S2010324725500043">https://doi.org/10.1142/S2010324725500043</a></p>	Web of Science	
3.	<p>M. Boopathi, <b>R. Venkatachalam</b>, Optimizing compression ignition engine performance and emissions with onboard oxygen concentrator: an experimental study, <b>Clean Technologies and Environmental Policy</b>,  <a href="https://link.springer.com/article/10.1007/s10098-023-02735-5">https://link.springer.com/article/10.1007/s10098-023-02735-5</a></p>	Web of Science	


## RESEARCH PUBLICATIONS

### (JOURNAL/CONFERENCE/ PATENTS /BOOKS/BOOK CHAPTER)

#### ***BOOKS/BOOK CHAPTER (WITH ISBN ONLY)***

1.	<p><b>R. Venkatachalam</b>, S. Supriya, Manish Raghunathrao Deshpande, C. Vaidevi, and Sumanta Bhattacharya Implementing Zero Liquid Discharge Systems to Minimize Industrial Wastewater Residues in Mechanical Manufacturing Processes, Springer Publications, ISBN 978-3-031-84908-4</p>		India Publisher
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#### ***PATENT PUBLISHED /GRANTED***

1.	<p><b>Dr .Neelamegan Sengodan</b>, “ ADJUSTABLE BLADE WIND TURBINE FOR ENHANCED ENERGY CAPTURE” Design Patent Granted 435848-001 &amp; 27/02/2025</p>		India Publisher
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## LIST OF SEMINAR/ WORKSHOP / PROGRAM/ EVENTS ORGANIZED

S. No	Nature of the Program	Title of the Program	Name of the resource person	Date	No of people attended
1.	Seminar	Ready, Set, Solve: Aptitude Practice for Competitives	Dr. S. Rajasekar Head CCE, KSRCE	25-01-2025	32
2.	Seminar	Innovate, Inspire, Ignite: Robotics in the Future – Alumni Meet 2025	Ms. Nithyashree R, Robotics Research Engineer, Otomatiks, Chennai	08.03.2025	43
3.	Seminar	“MATLAB ORIENTATION PROGRAM”	Dr. S. Rajasekar Head CCE, KSRCE	08-04-2025	12
4.	Seminar	Virtual Alumni Meet – Coimbatore Chapter	Alumni, Batch 2018-2022	11.05.2025	18
5.	workshop	Prototype / Process design and Development	Dr. S. Neelamegan Associate Professor, KSRCE	27.05.2025	44

## CERTIFICATION COURSES BY FACULTY ( NPTEL, COURSERA , OTHERS )

<u>S.No</u>	Name of the faculty /	Title of the Program	Duration From - to	Organized by
1.	<u>Dr.R.Venkatachalam</u>	Green Hydrogen: Innovation in Sustainable production Techniques for Zero Carbon Future	1 week	ATAL
2.	<u>Dr.S. Neelamegan</u>	Recent Trend in Advance Materials and its Application	17/02/2025 to 22/02/2025	
3.		Industry 4.0: Transforming Manufacturing through Innovation	24/02/2025 to 01/03/2025	

<u>S.No</u>	Name of the faculty	Name of the course certified/ completed	Awards, if any
1.	Dr. S. NEELAMEGAN	Fundamentals of welding science and Technology	Successfully Completed
2.	Mr. M. SYED THASTHAGIR		
3.	Mr. A.P. KALIDAS		



## CERTIFICATION COURSES BY STUDENTS ( NPTEL, COURSERA , OTHERS )

S.No	Name of the student	Year/ Sem	Name of the course certified/ completed	Awards, if Any
1.	Harish. C	II/IV	Fundamentals of welding science and Technology	Successfully Completed
2.	Kathirvel. V	IV/ VIII		

## EXTRA-CURRICULAR/ ACTIVITIES ( SPORTS/CULTURAL)



S. No	Name of the student	Year/ Sem	Name of the Events	State/ national /Inter national	Organizing Institution /body	Date of events	Award any
1.	Navin kanishkar S	I / II	Badminton	State	YSPA, Tamilnadu	27.04.2025	bronze