K.S.R. COLLEGE OF ENGINEERING (Autonomous)

Approved by AICTE, NewDelhi & Affiliated to AnnaUniversity, Chennai.

AnISO9001:2008CertifiedInstitution

Tiruchengode



DEPARTMENT OF AUTOMOBILE ENGINEERING

AUTOMAG 2024

NEWSLETTER

ACADEMIC YEAR 2024-2025

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, KSR Educational Institutions

Dean's Message



Dr. M. Venkatesan Dean - KSRCE

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 - KSRCE

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.

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

Awards / Recognition of Institute

- "A++" grade from NAAC with the Highest CGPA of 3.69.
- CSE, EEE, ECE & Mechanical Engineering departments accredited by the National Board of Accreditation (NBA).
- Great Place to work certified Institution.
- Ranked 2nd in Tamil Nadu and AIR 81 in AICTE Eduskills Internship ranking by AICTE Eduskills under Vikshit bharat scheme.
- Positioned in the Band of 151 300 in National Institutional Ranking Framework India Rankings NIRF Innovation 2023.
- Recognized by DSIR SIRO for promoting research.
- Recognized as Best Performing Engineering Institute 2024 (Southern Zone) by Eduskills.
- Ranked 36th among Emerging Private Engineering Colleges in All India by the Week 2024.
- KSRCE secured AAA ranking in India's Best Engineering Colleges in 2024 from Careers 360.
- Secured 2nd rank in the Category of Outstanding Excellence and 11th rank in the Southern region by CSR-GHRDC Engineering Colleges survey 2024.
- Ranked in "Silver Band" Across India for Excellence in up-keeping well-being of faculty, staff and students in MHW Ranking 2023.
- Four-star ranking in the Institution Innovation Council (IIC) for the academic year 2022-23.
- Institutional Grade: A & Institutional Band: Gold in Sustainable Institutions of India Green Rankings 2023.
- KSRCE secured 4th Rank Outstanding Engineering colleges of Excellence in Engineering College Survey 2023 from CSR GHRDC, New Delhi.
- Approved as Mentor Institution by MHRD-Institution Innovation Council in 2023.
- KSRCE received the Best NSS Unit Award 2022 from Anna University, Chennai.
- KSRCE received "Best Green Campus Award" from Nature Science Foundation Coimbatore, India 2022.
- Ranked 65th across India and categorized in the "Gold Band" Institute of Excellence in MHW Ranking 2022.
- KSRCE secured 15th position in top Private Engineering Institutions, Tamil Nadu from Times Engineering Institute Ranking Survey 2022.
- Categorized as Band Promising Colleges / Institutes (Private / Self-Financed) (Technical) by Ministry of Education, Government of India in ATAL Ranking of Institutions on Innovation Achievements (ARIIA Ranking 2021).
- K.S.R College of Engineering received Jal Shakti Abhiyan award from AICTE, New Delhi 2021.

Placement Highlights

S. No	Dept.	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 &	4.00 LPA &
			C.R.I. Pumps Private Limited	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	2.37 LPA &
			Limited & TAFE Access Limited	2.16
8.		YOGARAJ C P	Sakura Auto parts India Private	2.37 LPA
	Automobile		Limited	2.07 LI M
9.	Engineering	DINESH S	Sakura Auto parts India Private	2.37 LPA
			Limited	2.07 2111
10.		GOPINATH D	Sakura Auto parts India Private	2.37 LPA
			Limited	
11.		NAVEEN V	Sakura Auto parts India Private	2.37 LPA
			Limited	
12.		PUGAZHENTHI S	Sakura Auto parts India Private	2.37 LPA
			Limited	
13.		SAKTHIVEL M	Sakura Auto parts India Private	2.37 LPA
			Limited	
14.		NAMBIRAJA S	TAFE Access Limited	2.16 LPA
15.		VENKATESH B	TAFE Access Limited	2.16 LPA

Achievements / Awards of Faculty & Students

Salient Achievements (Faculty)

S. No	Dept.	Name of the Faculty	Achievement	Awarded by
1.		Dr.Venkatachalam R	Best Inspiring Professor Award	Knowledge Research Academy
2.			IGEN SDG7 Icon of the year 2024	IGEN
3.		Mr.Soundararajan S	Best Industry Institute Coordinator Award	Knowledge Research Academy
4.	AE	Mr.Syed Thasthagir M	Outstanding Contribution in Teaching Award	Swami Vivekanand Adarsh Ratna Samman
5.		Mr.Kalidas A P	Outstanding Contribution in Teaching Award	Swami Vivekanand Adarsh Ratna Samman
6.		Mr.Soundararajan S	Outstanding Contribution in Teaching Award	Swami Vivekanand Adarsh Ratna Samman
7.		Mr.Gogulan C	IGEN EnsavClub Organizer Award 2024	ENSAV Club

Salient Achievements (Student)

S. No	Dept.	Name of the Student	Achievement	Awarded by
1.		Theerej Kumar T	Certification on UI/UX for Beginners	Green Learning - Online
2.	AE	Sanjeevi S	Attended PALS-IITM – Residential Workshop	PALS-IITM
3.		Yogith S	IGEN EnsavClub Organizer Award 2024	ENSAV Club
4.		Yogith S, Kavin M	I prize in Pitstop Event	Kongu Engineering College
5.		Thirunavukarasu V, Ramakrishna S	II prize in Bid for Speed Event	Kongu Engineering College
6.		Subhaswar M and Deepakraj G	Best Innovation Project	KSRCE AIR Summit 2025

	Chandramohan P,		
	Nambiraja S,	Best Poster Presentation	KSRCE AIR Summit 2025
7.	Venkatesh B and	best roster rresentation	KSKCE AIK Summit 2025
	Srisanjay D		

Research Publications

(Journal/conference/ Patents /Books/book chapter)

Journal/Confrence Publications (Scopus Indexed/UGC care Journals Only)

1	R. Venkatachalam, M. Boopathi, P. C. Murugan, K. Venkatesh Raja, "Enhancing CI engine efficiency with onboard oxygen concentrator: An experimental study and RSM optimization" Thermal Science and Engineering Progress, https://www.sciencedirect.com/science/arti cle/abs/pii/S2451904925004408?via%3Dihub	Web of Science
2	M. Boopathi, R. Venkatachalam, Optimizing compression ignition engine performance and emissions with onboard oxygen concentrator: an experimental study, Clean Technologies and Environmental Policy, https://link.springer.com/article/10.1007/s1 0098-023-02735-5	Web of Science
3	S. Soundararajan, R. Ramesh Kumar, Mathanbabu Mariappan & R. Ashok Raj "Effects of mechanical and fatigue properties of vinyl silane-treated and ageing-processed areca fibre and bronze nanoparticle- reinforced polyester composite", Biomass conversion and Biorefinery, Springer Link, https://link.springer.com/article/10.1007/s13399-024- 05923-5	Scopus
4	SyedThasthagirM, RameshKumarR, MathanbabuMariappan, P.Senthamaraikannan, "Cryogenically treated goat and humanhair reinforced hybrid polymer composites", Polimery, Published on 04 July 2024, VOL. 69 NO. 5 (2024) page no. 312-317.	Scopus

5	Palanisamy, Manuneethi Arasu; Sengodan, Neelamegan "Tribological properties of dry sliding wear behaviour for GFRP composite made by hand layup, VARTM and RTM techniques using taguchi and ANOVA approach Articles", Published on , Revista Matéria , vol29, no.3, 2024 ISSN 1517- 7076 articles e20240276, 2024	Web of Science
6	NeelameganSengodan,SureshkumarTheivasigamani,SaravananKanthasamyGanesan, and P. Rajesh "OptimizingSparkIgnitionEnginePerformanceandControlwithSpikeNeuralNetworksUsingGasoline-EthanolBlends"2550004(2025)SPINISSN (print):2010-3247 ISSN (online):2010-3255https://doi.org/10.1142/S2010324725500043	SCI
7	S. Neelamegan, Y. Ras Mathew, M. Sivakumar, D.R. Srinivasan "Enhancing performance of diesel engine with the collective impact of ternary nano fuel blends using DBO-vCANN approach" 2025, International Journal of Heavy Vehicle Systems, ISSN online:1741-5152 DOI: 10.1504/IJHVS.2024.10068504	SCI
8	M. Syed Thasthagir, A. Sajitha Banu, A. Muthu kumaran, Melvin Victor De Poures, D. Yogaraj, A. Surenderpaul, L. Suresh Raj, Nafeez Ahmed Liyakat Comparison of V groove design on mechanical performance and fracture behaviour in TIG welding of 5754-H111 aluminium alloy Materials today, Elsevier Publisher, available online 19 march 2024, https://doi.org/10.1016/j.matpr.2024.03.031	SCI
9	J DineshKumar, Kathiravan Thangaraj, Gopal Kali yaperumal, C. Gogulan, A.P. Kalidas, K. Yokesvar an, Nafeez Ahmed Liyakat, L. Suresh Raj "Mechanical properties and fracture behaviour of varying filler rod composition in TIG welding of 5083 alloys", Materials today , Elsevier Publisher , available online 7 march 2024 , ISSN 2214-7853,	SCI

10	J DineshKumar, Kathiravan Thangaraj, Gopal Kali yaperumal, C. Gogulan, A.P. Kalidas, K. Yokesvar an, Nafeez Ahmed Liyakat, L. Suresh Raj "Mechanical properties and fracture behaviour of varying filler rod composition in TIG welding of 5083 alloys", Materials today, Elsevier Publisher, available online 7 march 2024, ISSN 2214-7853,		SCI
	Books/book chapter (with ISBN only)	1	
1	R. Venkatachalam, 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		India / Internatio nal Publisher
2	Dr.Kumar, Mr. M.Syed thasthagir, Mr.A.P.Kalidas, Mr.S. ManojKumar and Dr.Bh.VaraPrasad published a book "Composite Materials: Design and Applications": 2024, Cosmas Scientific Publications ISBN 978-93-6096-005-6,		India / Internatio nal Publisher
3	Dr.Kumar, Mr. M.Syed thasthagir, Mr.A.P.Kalidas, Mr.S. ManojKumar and Dr.Bh.VaraPrasad published a book "Composite Materials: Design and Applications": 2024, Cosmas Scientific Publications ISBN 978-93-6096-005-6,		India / Internatio nal Publisher
4	Mr.S.SOUNDARARAJAN,Mr.C.GOGULAN, Mr.K.GOBINATHandDr.G.NALLAKUMARASAMYpublished a book"Advanced Non-Traditional Machining Techniques": 2024, Cosmas Scientific Publications ISBN 978-93-6096-358-3,		India / Internatio nal Publisher
5	Mr.S.SOUNDARARAJAN,Mr.C.GOGULAN, Mr.K.GOBINATHandDr.G.NALLAKUMARASAMYpublishedabook"Advanced Non-Traditional Machining Techniques": 2024, Cosmas Scientific Publications ISBN 978-93-6096-358-3,		India/ Internatio nal Publisher

6	Mr.S.SOUNDARARAJAN,Mr.C.GOGULAN, Mr.K.GOBINATHandDr.G.NALLAKUMARASAMYpublished a book"Advanced Non-Traditional Machining Techniques": 2024, Cosmas Scientific PublicationsISBN 978-93-6096-358-3,		India/ Internatio nal Publisher
7	Mr.S.SOUNDARARAJAN,Mr.C.GOGULAN, Mr.K.GOBINATH and Dr. G.NALLAKUMARASAMY published a book "Advanced Non-Traditional Machining Techniques": 2024, Cosmas Scientific Publications ISBN 978-93-6096-358-3,		India/ Internatio nal Publisher
	Patents Published /Granted	1	
1	Mr. C.GOGULAN, published a Design Patent 412989- 001 "Alloy mixing and casting machine " K S R college of Engineering, 07/06/2024		India
2	Dr.G.NALLAKUMARASAMY, published a Design Patent 415376-001 " Three wheeled Agricultural vehicle" 14/06/2024		India
3	Mr.S.SOUNDARARAJAN published a Design Patent 415376-001 " Three wheeled Agricultural vehicle" 14/06/2024		India
4	Dr.S.NEELAMEGAN published a Design Patent 415376-001 " Three wheeled Agricultural vehicle" 14/06/2024		India
5	Mr.SOUNDARARAJAN SELVARAJ published a Design Patent 405906-001 " NUT DEHUSKING MACHINE" 28/03/2024		India

6	Mr. M.SYED THASTHAGIR MOHAMED HUSSAIN, published a Design Patent 405906-001 " NUT DEHUSKING MACHINE" 28/03/2024	India
7	Mr. KALIDAS AVANAIYAN PERUMALSAMY, published a Design Patent 405906-001 " NUT DEHUSKING MACHINE" 28/03/2024	India
8	Dr .Neelamegan Sengodan, "ADJUSTABLE BLADE WIND TURBINE FOR ENHANCED ENERGY CAPTURE" Design Patent Granted 435848-001 & 27/02/2025	India
9	Dr .Neelamegan Sengodan "HYBRID WIND AND SOLAR ELECTRIC SYSTEM", Design Patent Granted 428596-001 &24/10/2024	India

MoU/Centre of Excellence

Name of the Organization /Industry	Name of the Dept	Date of MoU	Nature /outcome of MoU	Photo
Sakthi Auto Components	AE	18.07.2024	Internship and Placement	

AEROSPARKE	AE	02.09.2024	Internship and	
INDUSTRIES			Placement	
PRIVATE LIMITED				Hamaddal, Tamil Nedu, India Baselander and Baselander and Technol. Cory. org.1-2726, Tamil Nedu 437216, 11 138227
				Google 02/09/24 12:00 PM GMT +05:30

List of Seminar/ workshop / Program/ Events Organized

S. No	Department	Nature of the Program	Title of the Program	Name of the resource person	Date	No of people attended
1.	Automobile	Industry Visit	3D Printing	Mr.A.Hariprakash Founder and CEO Aerosparke Industries Pvt Ltd- Hosur	27.07.2024	42
2.	Automobile	Seminar	Essential skills for core Industry	Mr.B.JAFAR SADIK, Centre Head C Cube -Erode	07.08.2024	50
3.	Automobile	Guest Lecture	Unlocking Opportunities A Comprehensive guide to gate	Dr.S.Rajasekar Head CCE, KSRCE	10.08.2024	63
4.	Automobile	workshop	Digital Manufacturing	Mr.N.R.Karthik Co-Founder Artispec Technologies Pvt Ltd. Coimbatore.	27-09-2024	60
5.	Automobile	Seminar	Ready, Set, Solve: Aptitude Practice for Competitives	Dr.S.Rajasekar Head CCE, KSRCE	25-01-2025	32

6.	Automobile	Seminar	Innovate, Inspire, Ignite: Robotics in the Future – Alumni Meet 2025	Ms.Nithyashree R, Robotics Research Engineer, Otomatiks, Chennai	08.03.2025	43
7.	Automobile	Seminar	"MATLAB ORIENTATION PROGRAM"	Dr.S.Rajasekar Head CCE, KSRCE	08-04-2025	12
8.	Automobile	Seminar	Virtual Alumni Meet – Coimbatore Chapter	Alumni, Batch 2018-2022	11.05.2025	18
9.	Automobile	workshop	Prototype / Process design and Development	Dr. S. Neelamegan Associate Professor, KSRCE	27.05.2025	44

FDP/Seminar/Conference/Workshop Attended by

S.No	Name of the faculty/	Depart.	Title of the Program	Duration From – to	Organized by
1	Dr.R.VENKATACHALAM	AE	Electric Vehicle (Mech)	1 month	AICTE- SkillDzire
2	2		Green Hydrogen: Innovations in Sustainable Production Techniques for Zero Carbon Future	1 week	ATAL
3	Mr.S.SOUNDARARAJAN	AE	Electric Vehicle (Mech)	1 month	AICTE- SkillDzire
4	Mr.M.SYED THASTHAGIR	AE	Electric Vehicle (Mech)	1 month	AICTE- SkillDzire

5	Mr.A.P.KALIDAS	AE	Electric Vehicle (Mech)	1 month	AICTE- SkillDzire
6	Dr. S.NEELAMEGAN	AE	Recent Trend in Advances Materials and its Application	17/02/2025 to 22/02/2025.	ATAL
7		AE	Industry 4.0: Transforming Manufacturing through Innovation	24/02/2025 to 01/03/2025.	ATAL

Certification courses by faculty & Students (NPTEL.

Coursera, others)

S.No	Name of the faculty	Department	Name of the course certified/ completed	Awards, if any	
1.	Dr.R.VENKATACHALAM		Introduction to Electric and Hybrid Vehicle	Elite	
2.	Dr. S. NEELAMEGAN		Fundamentals of welding science and Technology		
3.	Mr. M. SYED THASTHAGIR	AE	Fundamentals of welding science and Technology	Cuccos fully	
4.	Mr. A.P. KALIDAS		Introduction to Electric and Hybrid Electric Vehicles	Successfully Completed	
5.			Fundamentals of welding science and Technology		

S.No	Name of the student	Dept	Year/ Sem	Name of the course certified/ completed	Awards, if Any
			Jem	certified completed	
1.	Theeraj Kumar. T		IV/VII	UI/UX for Beginners	
	,				
2.	Harish. C		II/IV	Fundamentals of	
				welding science and	Successfully
		AE		Technology	Completed
3.	Kathirvel. V		IV/ VIII	Fundamentals of	-
				welding science and	
				Technology	

Extra-Curricular/ activities (Sports/Cultural)

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

Extension & Outreach program organized

S.No	Dept	Name of the Coordinators	Name of the Events	No of students participated	Date of events
1.	AE	Dr.G.NALLAKUMARASAMY	Helmet awareness rally	110	24.08.2024
2.	AE	Mr. M. SYED THASTHAGIR	Gate Outreach Programme	12	21.09.2024