

S.A. ENGINEERING COLLEGE

(An Autonomous Institution , Affiliated to Anna University , Chennai)

Accredited by NAAC with 'A' Grade & ISO 9001:2015 Certified Institution

Approved by AICTE and Affiliated to Anna University, Chennai



DYNAMIX'22 EVEN SEMESTER

Newsletter 2022 - 2023

DEPARTMENT OF MECHANICAL ENGINEERING

ABOUT THE DEPARTMENT



The department of Mechanical Engineering was established in the year 1998 in our college; it was affiliated to Anna University in 2001 and got permanent affiliation in 2013. It has been accredited by the National Board of Accreditation (NBA) from the year 2009. The post graduate programme, M.E. CAD/CAM was established in the year 2014 with an intake of 18 students. The department has been recognized as a research center by Anna University in the year 2012. The students are given hands on training about the theoretical concepts they are learning through various labs such as Manufacturing Technology Lab, Fluid Mechanics Lab, I C Engines lab, Heat Transfer Lab, CAD CAM LAB, Dynamics Lab, Mechatronics Lab.

The department has eminent faculties to guide the students in learning the various concepts of mechanical engineering. The faculty are well versed in research and publish papers periodically in reputed journals like WOS, SCI, SCOPUS. The faculty of mechanical engineering also have patent grants for their research and innovation projects in emerging fields of mechanical engineering. In addition to this, various funded projects are also being carried out with the grants received from AICTE, DST, TNSCST etc. The students are also encouraged to participate in various events such as design and fabrication of parallel hybrid electric race car, Solar vehicle championship conduct by ISIE every year.



Vision

- **Academic Excellence:** To strive and attain a premier position in providing Quality Higher Education integrated with Research and Scholarly activities in the emerging areas and diversify in the emerging fields of Mechanical Engineering, thus serving to the needs of the society.
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- **Inventory of Skill Development:** To make our graduates to be adept in handling real life complex problems through Modern Tools and Techniques and while doing so making them to imbibe ethical practices and confident enough to assume leadership position.

Mission

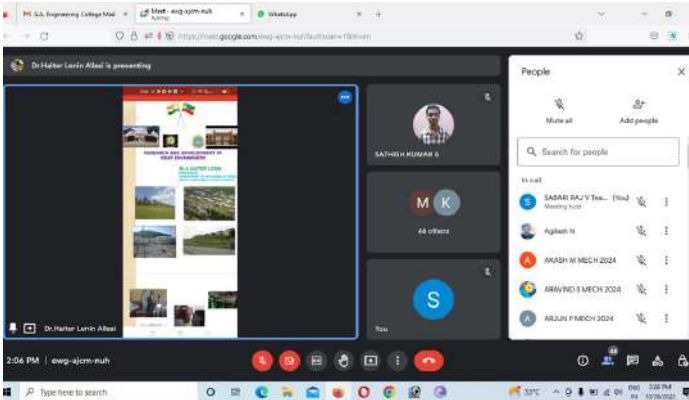
- **Conducive Environment:** To provide conducive atmosphere for effective teaching-learning by disseminating the knowledge in breadth and depth.
- **Centre of Excellence:** To practice modern tools and techniques so as to make our department a Centre of Excellence and sustainable in their growth.
- **Critical and Clinical Thinking:** To transform our students to be open minded with critical thinking in their approach to real-life problem-solving situations keeping in mind the Professional, Ethical, Environmental and Societal aspects
- **Active Involvement in R&D:** To provide a perfect platform for our faculty and students to undertake research activities.
- **Collaboration and Integration:** To collaborate with the industries, premier Institutions in taking up consultancy projects, internship so that our students will acquire experience hands-on in current industrial practices and ethical standards.
- **Implementation of Students Quality Circle:** To make our students imbibe leadership qualities by fostering in them a good amount of soft skills, personality traits and by way of active participation in extra-curricular and co-curricular activities.



PROGRAMME EDUCATIONAL OBJECTIVES

- 1. **Technical and Professional Excellence:** Graduates will demonstrate technical competence in solving real life Mechanical Engineering problems using Engineering principles and modern tools while engaging in continuous professional development to stay updated of the industry trends.
- 2. **Leadership and Communication:** Graduates will exhibit strong leadership qualities enabling them to manage projects, work in inter disciplinary teams and communicate complex technical information using contemporary tools in a global environment.
- 3. **Ethical and Social Responsibility:** Graduates will demonstrate a commitment to professional ethics, understand the broader impacts of engineering solutions on society and the environment and apply their engineering skills to address global challenges in sustainability, health, and safety
- 4. **Lifelong Learning:** Graduates will successfully establish themselves in professional engineering roles in various industries by engaging in lifelong learning or by participation in professional organizations to continuously improve their knowledge and skills.

GUEST LECTURE



On 26.10.22, The Department of Mechanical Engineering has conducted a Guest Lecture on Recent Trends in the Development of Heat Exchanger For III A & B Year Students



On 18.10.22, The Department of Mechanical Engineering has conducted a Guest Lecture Career planning Recent Trends in the Development of Heat Exchanger



On 30.08.22, The Department of Mechanical Engineering has conducted a Guest Lecture on Introduction to CATIA II Year Students



On 30.08.22, The Department of Mechanical Engineering has conducted a Guest Lecture Career guidance in design software For III A & B Year Students for IV year students.

WORK SHOP



The Department of Mechanical Engineering has conducted a workshop on the topic “Non Destructive Testing level II” on 17th August 2022. Resource Person - Shri. M. Mohan Ram, Managing Director, Industrial Engineering Quality Solutions(IEQS) Group.



The Department of Mechanical Engineering has conducted a workshop on the topic “Auto Desk” on 26th September 2022. For Final year students.



The Department of Mechanical Engineering has conducted a workshop on the topic “Heating Ventilation And Air Conditioning” on 13th September 2022. For Third year students of A & B Sections.



The Department of Mechanical Engineering has organized a Value Added course on the topic “INDUSTRIAL AUTOMATION” for Two days from 29/9/22 to 30/9/22. Resource person Mr. G. Rajesh, Researcher, Spark Automation Centre

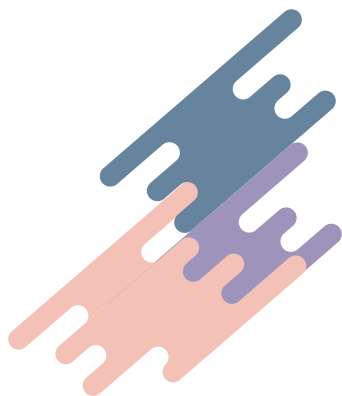
The Department of Mechanical Engineering has organized a Value Added course on the topic “Core Industrial Placement Training on Factory and Process Automation” for Five days from 31/10/22 to 5/11/22. Resource person Mr. Jayakumar IOLOGIX AUTOMATION SOLUTIONS



The Department of Mechanical Engineering has organized a Value Added course on the topic “Certified Engineer Product Design (Course on AutoCAD Essential + Course on SolidWorks Essential +Course ANSYS Essential)” for Ten days from 29/8/22 to 12/9/22. Resource person Mr. N. Boopesh kumar



The Department of Mechanical Engineering has organized a Value Added course on the topic “Problem solving by using C Programming language” Slot 1 16/8/22 to 24/8/22, Slot 2 21/11/22 to 24/11/22 and 29/11/22 Resource person Mr. N. Boopesh kumar.

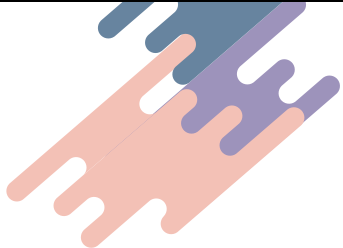


INDUSTRIAL VISIT

The Department of Mechanical Engineering has organized Industrial visit to “National Skill Training Institute” on 28/10/22. For II year students.



The Department of Mechanical Engineering has organized Industrial visit to “National Skill Training Institute” on 1/11/22. For IV year students.



The Department of Mechanical Engineering has organized Industrial visit to “Integral Coach Factory” on 1/11/22. For III A & B year students.

S.NO	DETAILS OF APPLICATION OF PATENTS		
	DATE	APPLICANT NAME,DEPT	TOPIC WITH IPR APPLICATION NUMBER
1.	<u>30/11/2022</u>	Mr.C.Dhanesh and Dr.S.Vishvanathperumal Dept of Mechanical Engineering, S.A. Engineering College, Chennai	Mechanical and barrier properties of NBR/XNBR-clay nanocomposite: a promising material for protective gloves. 202241068932 Published on 23/12/2022
2.	<u>30/11/2022</u>	Mr. Vasanthe Roy J Mr. Roosvelt Prabhu Mr. Sathishkumar V Dept of Mechanical Engineering, S.A. Engineering College, Chennai	Motorized Adjustable Wheel Nuts Tightening and Removing Tool 202241068863 Published on 09/12/2022
3.	<u>30/11/2022</u>	Mr. S. Praveen Kumar Mr. K. Parthasarathy Mr. G. Prabakaran Dept of Mechanical Engineering, S.A. Engineering College, Chennai	Cross Flow Square Section Electrode Anode Pattern For Pemfc 202241069224 <u>Published on 09/12/2022</u>
4.	<u>30/11/2022</u>	Mr. Ramu K NMr. Manimaran KMr. Prakash D Dept of Mechanical Engineering, S.A. Engineering College, Chennai	MECHANICAL BURR COLLECTOR 202241068930 <u>Published on 09/12/2022</u>
5.	<u>30/11/2022</u>	Mr. C. KrishnamurthyMr. K. Suresh Mr. S. Dhanasekar Dept of Mechanical Engineering, S.A. Engineering College, Chennai	Rotating Arm Robot for Pipe Inspection Tasks 202241068913 Published on 23/12/2022

6.	<u>07/12/2022</u>	Jeeva RRajarajan S JDept of Mechanical Engineering, S.A. Engineering College, Chennai	Effect of carbon black loading on the swelling and compression set behavior of SBR and NBR rubber compounds 202241070610 Published on 30/12/2022
7.	<u>17/11/2022</u>	Mr. S. R. Venkataraman Mr. D. Srinivasan Mr. S. Praveen Kumar	Cross Diagonal Up Right Serpentine Electrode Pattern For PEMFC 202241066082 Published on 25/11/2022
8.	<u>20/12/2022</u>	<u>Mr. R. Jeeva</u>	IOT Based Electric Vehicle Control Systems In Smart Cities 202241073743 Published on 30/12/2022

DETAILS OF FACULTY RESEARCH WORK FOR INTERNAL CANDIDATES

S.NO	NAME OF THE RESEARCH SCHOLAR WITH DESIGNATION	RESEARCH AREA & TOPIC	RESEARCH GUIDE (Name, Desig., Address)	NAME OF THE UNIVERSITY IN WHICH Ph.d IS REGISTERED
	Mr.D.Srinivasan Associate Professor	Friction Stir welding of aluminium alloys	Dr.P.Sevvel Professor, SAEC	AUC – Reg.No 16152997314
2.	Mr.S.Dhanasekar Assistant Professor	Effect of Nano particles on the dynamic characteristics of polymer matrix composites	Dr.S.Baskar Professor, SAEC	AUC-Reg.No 17142991127
3.	Mr.C.Krishnamurthy Assistant Professor	Dynamic characteristics of polymer matrix composite using Natural fibers	Dr.V.Chandran, Associate Professor, Velamm al Engineering College	AUC-Reg.No 17142991126
4.	Mr.Suresh K Assistant Professor	Mechatronics based design and development of magneto rheological abrasive flow machining for Nano surface finishing	Dr.Karuppasamy K Professor, AU- Tirunelveli	AUC-Reg.No 1614289111
5.	Mr.Dhanesh. C Associate Professor	Exhaust Heat Recovery in IC Engines	Dr. J. Venkatesan Professor, SVCE	AUC-Reg.No 1325299830
6.	Mr. S. Praveen Kumar Assistant Professor	Thermal management studies on stacking up of high energy density proton exchange membrane fuel cell	Dr. S.Baskar, Professor, SAEC	AUC :16132697299
7.	Mr.K.Parthasarathy Assistant professor	Tribological study of nano-biodegradable grease	Dr. S.Baskar, Professor, SAEC	AUC – Reg.No 20132991165
8.	Mr.G.Prabaharan Assistant professor	Development of Novel Nano Biodegradable Marine Lubricant	Dr. S.Baskar, Professor, SAEC	AUC – Reg.No. 21142991229

9.	Mr. S. R. Venkatraman Associate professor	FSW of dissimilar aluminium matrix composite	Dr.S.P. Shanmuganathan, Asso.Prof-DSCE, Bengaluru.	VTU
10.	Mr. A. Sivaramakrishnan Assistant professor	Peak temperature correlation and distribution of temperature during joining of Cu alloy flat Plate by FSW process	Dr. P, Sevel Professor, SAEC	AUC – Reg. No. 23152991144
11.	Mr. D. Prakash, Assistant professor	FSW of dissimilar aluminium and magnesium alloys	Dr. P, Sevel Professor, SAEC	AUC – Reg. No.
12.	Mr. J. Vasanthe Roy, Assistant Professor	FSW of dissimilar copper CDA 101/AISI SAE 1010 alloy Experimentation & optimization using quadratic regression models	Dr. P, Sevel Professor, SAEC	AUC- Reg. No. 23152991196

DETAILS OF FACULTY RESEARCH WORK OF EXTERNAL CANDIDATES

S.NO	NAME OF THE SUPERVISOR WITH DESIGNATION	NAME OF THE RESEARCH SCHOLAR WITH DESIGNATION WITH ADDRESS	RESEARCH AREA & TOPIC
1.	Dr.P.Sevvel, Professor	Mr.Giridharan K Asst.Professor Easwari Engineering College	Experimental Study on Mechanical Properties of Friction Stir Welded Dissimilar Joints of Aluminium Alloys AA8011-AA6082
2.	Dr.P.Sevvel, Professor	Mr.Yokesh Kumar B Asst.Professor Chennai Institute of Technology	Influence of tool rotational speed on microstructural characteristics of dissimilar Mg alloys during FSW
3.	Dr.P.Sevvel, Professor	Mr.Lokesh Kumar P J Asst.Professor RMK Engineering college	Fabrication of Nano Composites for Automobile Applications
4.	Dr.P.Sevvel, Professor	Mr. John Solomon I Asst.Professor Panimalar Engineering College	effect of different layer thickness and pulse frequency on fabrication of thin walled AZ31 magnesium alloy using wire arc additive manufacturing
5.	Dr.P.Sevvel, Professor	Mr.Kandukuri Anilbasha Asst.Professor GRT Institute of Engineering Technology	Joining of magnesium alloy with low carbon steel by cold metal transfer (CMT) arc welding process

6.	Dr.P.Sevvel, Professor	Mr.Gunasekaran J Assistant Professor Panimalar Engineering College	Selective Laser Melting
7.	Dr.P.Sevvel, Professor	Mr.G.Purushothaman Assistant Professor GRT College of Engineering & Technology	Friction Stir Welding of Composites
8.	Dr.S.Baskar, Professor	Mr.N.Nagabooshanam Assistant Professor	Machining characteristics of superalloy in EDM Using nano particle suspended bio dielectric fluid
9.	Dr.S.Baskar, Professor	Mr.Pugazhenth. V, Assistant Professor, Mailam Engineering College	Investigate the Vibration Characteristics of Butyl Rubber Pad Through Seated Vibration Related with Human Body

DETAILS OF PUBLICATIONS OF FACULTY

S.NO	NAME OF THE FACULTY	PAPERS PUBLISHED		
		Title of the paper	Name of the Journal/Conference with vol no, issue no, page no and impact factor.	Date of publication/presentation
1.	Dr.P.Sevvel	Friction stir processing of nanofiller assisted AISI 1010 steel-CDA101 copper dissimilar welds: a strength factor approach	Metallurgical Research Technology, 119 (5)	10-07-2022
2.	Dr.P.Sevvel	Tilt angle impact on strength, microstructure of friction stir welded AZ91CMg plates	Materials Science And Technology	12-10-2022
3.	Dr.S.Vishvanathperumal	Effect of Surface Modified Halloysite Nanotubes (mHNTs) on the Mechanical Properties and Swelling Resistance of EPDM/NBR Nanocomposites	Polym. Korea, Vol. 46, No. 6, pp. 1-17 (2022)	

DETAILS OF PATENTS, AWARDS & INVITATION RECEIVED BY FACULTY

S.NO	NAME OF THE FACULTY	AWARDS /INVITATION RECEIVED		
		DATE	NATURE OF AWARD/ INVITATION	GRANTING AUTHORITY /JOURNAL/ CONFERENCE
1.	Dr.P.Sevvel	21-07-2022	Certificate of Appreciation for being a resource person in FDP on “ME8594- Dynamics of Machines”	Easwari Engineering College
2.	Mr.C.Krishnamurthy	21-07-2022	Certificate of Appreciation for being a resource person in FDP on “ME8594- Dynamics of Machines”	Easwari Engineering College

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DETAILS OF APPLICATION OF PATENTS		
DATE	APPLICANT NAME,DEPT	TOPIC WITH IPR APPLICATION NUMBER
21/07/2022	Mr. A. Sivaramakrishnan Dr. P. Sevel Dept of Mechanical Engineering, S.A. Engineering College, Chennai	Solar Parabolic Water Heater Design No.: 368084-001 Granted on 23/02/2023
30/11/2022	Mr.C.Dhanesh and Dr.S.Vishvanathperumal Dept of Mechanical Engineering, S.A. Engineering College, Chennai	Mechanical and barrier properties of NBR/XNBR-clay nanocomposite: a promising material for protective gloves. 202241068932 Published on 23/12/2022
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07/12/2022	Jeeva RRajarajan S J Dept of Mechanical Engineering, S.A. Engineering College, Chennai	Effect of carbon black loading on the swelling and compression set behavior of SBR and NBR rubber compounds 202241070610 Published on 30/12/2022
17/11/2022	Mr. S. R. Venkataraman Mr. D. Srinivasan Mr. S. Praveen Kumar	Cross Diagonal Up Right Serpentine Electrode Pattern For PEMFC 202241066082 Published on 25/11/2022
20/12/2022	Mr. R. Jeeva	IOT Based Electric Vehicle Control Systems In Smart Cities 202241073743 Published on 30/12/2022

DETAILS OF PATENTS & AWARDS RECEIVED BY STUDENTS

S.NO	NAME OF THE STUDENT	AWARDS /INVITATION RECEIVED		
		DATE	NATURE OF AWARD/ INVITATION	GRANTING AUTHORITY /JOURNAL/ CONFERENCE
1.	SUDHARSAN.S	10.08.2022	Certificate of Appreciation for presenting a paper in Symposium	National level Technical Symposium -WISSENAIRE-2022 by SIMATS SCHOOL OF ENGINEERING
2.	J. NAVEEN	10.08.2022	Certificate of Appreciation for presenting a paper in Symposium	National level Technical Symposium -WISSENAIRE-2022 by SIMATS SCHOOL OF ENGINEERING
3.	PURUSHOTHAMAN R	10.08.2022	Certificate of Appreciation for presenting a paper in Symposium	National level Technical Symposium -WISSENAIRE-2022 by SIMATS SCHOOL OF ENGINEERING

4	D.BALAJI	13.08.2022	Certificate of participation for attending workshop on Mechanical CADD Design & Development	Diagonal CADD – Porur
5	Md. MUSHARAF			
6	GANESH S			
7	PURUSHOTHAMAN R			
8	JAI GANESH G			
9	SABARISH T			
10	SARAVANAN E			
11	NAVEEN			
12	RAJESH M			
13	VISHAL C			
14	KARTHIKEYAN B	11.08.2022 to 12.08.2022	Certificate of participation for attending "I & E Exposure Visit Cum Two Days Training Program"	Sri Sairam Institute of Technology
15	AGILASH N			

16	KARTHIKEYAN B	26.08.2022	Certificate of participation for attending workshop on Design and Engineering	NTTF -School of Post graduate studies
17	AKASH M			
18	PURUSHOTHAMAN R			
19	J. NAVEEN			
20	YESHWANTH C			
21	AGILASH N	18 and 19.11.2022	Certificate of participation for presenting a paper in DRESTIEN'22	Saveetha Engineering College
22	GANESH	19.11.2022	Certificate of appreciation for winning 2nd prize in Mr.Mechanic at Symposium – Krida Yanthrik '22	-
23	MADHAN GANESH			-
24	YESHWANT C	28-29.10.2022	Certificate of participation for participating in Tech-Quiz at IgnisZid 2k22	Meenakshi College of Engineering
25	GANESH			
26	MADHAN GANESH	28-29.10.2022	Certificate of participation for presenting a paper at IgnisZid 2k22	Meenakshi College of Engineering
27	SARAVANA E			

28	MIDHUN M	21.10.2022	Certificate of Excellence for winning the I place in SDG Project Expo event in the National Level Techfest – MESSI'22	Sairam Institute of Technology
29	NARENDRA KUMAR			
30	HARI VIGNESH	21.10.2022	Certificate of Excellence for winning the I place in SDG Project Expo event in the National Level Techfest – MESSI'22	Sairam Institute of Technology
31	HARI VIGNESH	17.10.2022	Merit Certificate for winning I-place in the paper presentation event at Maquinas-22 (Symposium)	RMK College of Engineering and Technology
32	MIDHUN M			
33	NARENDRA KUMAR			

DETAILS OF PATENTS & AWARDS RECEIVED BY STUDENTS

DETAILS OF APPLICATION OF PATENTS		
DATE	APPLICANT NAME,DEPT	TOPIC WITH IPR APPLICATION NUMBER
<u>30/11/2022</u>	Mr. Jaswanth.R Mr. Amirullakhan.H Mr. Thanigaivel.S.S Mr. Ranjith kumaresan.V.A	Cross Flow Square Section Electrode Anode Pattern For Pemfc 202241069224 Published on 09/12/2022
21/07/2022	S. Yashwanth Kumar	Solar Parabolic Water Heater Design No.: 368084-001 Granted on 23/02/2023

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<u>30/11/2022</u>	Mr. Jaswanth.R Mr. Amirullakhan.H Mr. Thanigaivel.S.S Mr. Ranjith kumaresan.V.A	Cross Flow Square Section Electrode Anode Pattern For Pemfc 202241069224 Published on 09/12/2022
21/07/2022	S. Yashwanth Kumar	Solar Parabolic Water Heater Design No.: 368084-001 Granted on 23/02/2023

DETAILS OF WORKSHOPS, SEMINARS, CONFERENCES, CEP, FDP AND QIP PROGRAMMES ATTENDED BY FACULTY

S.NO	NAME OF THE FACULTY	SEMINAR/WS/ CONFERENCE/ CEP/FDP/QIP ATTENDED	NAME OF THE PROGRAMME	SPONSORS IF ANY
1	Dr SEVVEL P	Online Course	Finite Element Analysis Convergence and Mesh Independence	-
2	Dr SEVVEL P	FDP	Advancements in Thermal and Renewable Energy Technologies (ATRET-2022)	(ATRET-2022)
3	Dr SEVVEL P	SEMINAR	Scope of Data Science and Artificial Engineering in Mechanical Engineering	SAVEETHA ENGINEERING
4	Dr SEVVEL P	<u>Online Course</u>	Machine Learning Onramp	MATHWORKS
5	Dr SEVVEL P	CONFERENCE	Recent trends in fabrication of Parts using fused deposition modeling (fdm) – a review	RIST 2022
6	Dr SEVVEL P	CONFERENCE	Latest developments in Mechanisms and methods for fabrication of parts using laser Directed energy deposition (lded) – a review	RIST 2022
7	Dr SEVVEL P	<u>Online Course</u>	Effective time management for professionals	Udemy

8	Dr SEVVEL P	<u>Online Course</u>	Linear Regression and Logistic Regression in Python	Udemy
9	Mr.C. Dhanesh	<u>FDP</u>	2 – Days Online Faculty Development Program on “ADDITIVE MANUFACTURING”	Vel Tech Multi Tech
10	Dr S Baskar	FDP	Advancements in Thermal and Renewable Energy Technologies (ATRET-2022)	Lakireddy Bali Reddy College of Engineering
11	Dr S Baskar	<u>Online Course</u>	Linear Regression with NumPy and Python	Coursera
12	Dr S Baskar	FDP	MATLAB - Artificial Intelligence and Optimisation Techniques	NITTTR, Chandigarh
13	Mr R Jeeva	<u>Online Course</u>	Finite Element Analysis Convergence and Mesh Independence	Coursera
14	Mr R Jeeva	SEMINAR	Scopus of data Science and Artificial Intelligence in Mechanical Engineering.	Saveetha Engineering College
15	Mr R Jeeva	<u>Online Course</u>	Optimization Onramp	MathWorks
16	Mr K Manimaran	FDP	ADDITIVE MANUFACTURING	Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College.

17	Mr K Manimaran	FDP	Inculcating Universal Human Values in Technical Education	AICTE
18	Mr K Manimaran	FDP	Advance Research in Friction Welding and its Engineering Applications	Rajalakshmi Engineering College
19	Mr C Dhanesh	FDP	Advance Research in Friction Welding and its Engineering Applications	Rajalakshmi Engineering College
20	Mr K Manimaran	<u>Online Course</u>	Finite Element Analysis Convergence and Mesh Independence	Coursera
21	Mr K Manimaran	SEMINAR	Scopus of data Science and Artificial Intelligence in Mechanical Engineering.	Saveetha Engineering College
22	Mr K Manimaran	FDP	Automation System Design & Simulation using Automation Studio Software	Dell soft Tech
23	Mr S Praveenkumar	<u>Online Course</u>	Foundations, Data, Data Everywhere	Coursera
24	Mr S Praveenkumar	FDP	The Role of Artificial Intelligence in Renewable Energy Applications	KPRIET
25	Mr S Praveenkumar	SEMINAR	Scopus of data Science and Artificial Intelligence in Mechanical Engineering.	Saveetha Engineering College

26	Mr K A V Roosvelt Prabhu	FDP	Futuristic Research in Mechanical Engineering	SRMIST
27	Mr S J Rajarajan	SEMINAR	Finite Element Analysis Convergence and Mesh Independence.	Coursera
28	Mr S J Rajarajan	FDP	Automation System Design & Simulation using Automation Studio Software	Dell soft Tech
29	Mr S J Rajarajan	FDP	Advance Research in Friction Welding and its Engineering Applications	Rajalakshmi Engineering College
30	Mr K N Ramu	FDP	Advance Research in Friction Welding and its Engineering Applications	Rajalakshmi Engineering College
31	Mr K N Ramu	FDP	Inculcating Universal Human Values in Technical Education	AICTE
32	Mr K N Ramu	CONFERENCE	FABRICATION OF MULTI CONFIGURATION UNMANNED AERIAL VEHICLE	RIST 2022
33	Roosvelt Prabhu K A V	FDP	Advance Research in Friction Welding and its Engineering Applications	Rajalakshmi Engineering College

34	Roosvelt prabhu K A V	FDP	ADDITIVE MANUFACTURING	VTMT Engineering College.
35	Roosvelt prabhu K A V	<u>Online Course</u>	Linear, Nonlinear Analysis & Post Processing	COURSERA
36	S DHANASEKAR	SEMINAR	Scopus of data Science and Artificial Intelligence in Mechanical Engineering.	Saveetha Engineering College
37	S DHANASEKAR	<u>Online Course</u>	Finite Element Analysis Convergence and Mesh Independence	COURSERA
38	S DHANASEKAR	FDP	Inculcating Universal Human Values in Technical Education	AICTE
39	J Vasanthe Roy	FDP	Advancements in Thermal and Renewable Energy Technologies	ATRET
40	J Vasanthe Roy	Conference	International conference on Advances in Material science and Technology (ICAM 2022)	-
41	J Vasanthe Roy	FDP	The Role of Artificial intelligence in Renewable Energy Applications	KPRIET
42	J Vasanthe Roy	FDP	Advance Research in Friction Welding and its Engineering Applications	Rajalakshmi Engineering College

43	J Vasanthe Roy	Conference	International conference on Recent Advances in Materials and Manufacturing	-
44	S R Venkataraman	NPTEL	Aluminium based Alloys and Metal Matrix Composites	-
45	Praveen Kumar	Seminar	Intellectual Property Rights	TNSCST
46	Roosvelt prabhu K A V	Workshop	2 Days Faculty development workshop on Fusion 360	AutoDesk
47	Dhanasekar	Online FDP	Contemporary in Thermal Energy and Fluids	Kalasalingam Academy of Research & Education

**DETAILS OF SEMINAR, WORKSHOP, CONFERENCES, CEP,
FDP, QIP PROGRAMS ORGANIZED**

S.NO.	NATURE OF PROGRAM (SEMINAR, WORKSHOP, CONFERENCES, CEP, FDP, QIP)	NAME OF THE PROGRAM	DETAILS OF THE GUEST(S)	DETAILS OF THE PARTICIPANTS	VENUE
1	Workshop	One day workshop on "HVAC (Heating, Ventilation and Air Conditioning)"	Shri. C. Chenna Raidu Scientist E, TOT Division CVRDE-DRDO, Min. of Defence, Avadi, Chennai-54	III Years (67 students)	S.A. Engineerin g College
2	Workshop	One Day Hands on Training & Workshop on "Non-Destructive Testing (NDT) Techniques"	Shri. M. Mohan Ram Managing Director Industrial Engineering Quality Solutions (IEQS) group	IV Years (51 students)	S.A. Engineein g College

S.No.	TITLE OF RESEARCH PROPOSAL	PI / RESEARCH COORDINATOR(S)	FUNDING ORGANIZATION	FUND REQUESTED	STATUS OF PROPOSAL
1.	Analysis of bio-compatibility and surface modifications: Ti16Zr alloy based dental implants with porous scaffold structures manufactured using selective laser melting	Dr.P.Sevvel	Submitted under EMEQ – SERB File No: EEQ/2022/000018	Rs. 28,97,083	shortlisted for Presentation.
2.	Science Technology and Innovation Hub for enhancing employability amp livelihood of SC Community Population through technology development of Coir based Products for application in Construction Manufacturing Sector	Dr.P.Sevvel	Submitted under STI Hub for SC – Department of Science and Technology (DST) Scheme File No: 83112/DST/SEED/S CSP/STI/2022/1102	Rs. 29,77,433	Submitted
3	Micro-structural Analysis and Mechanical behavior of dissimilar AZ91C Mg –AA6061 Al joints fabricated by friction stir welding process	Dr.P.Sevvel	Submitted under SURE–SERB Scheme for Rs. 29,77,433 File No: SUR/2022/000080	Rs. 29,77,433	Submitted
4	Establishment of Community Resilience Resource Centre (CRRC) in Poonamallee Block, Tiruvallur District, Tamil Nadu State	Mr.C.Dhanesh, Dr.P.Sevvel & Mr.D.Srinivasan	Submitted under SEED-DST Scheme File No: TPN / 86100	Rs. 1,57,21,860	Submitted

5	AICTE - Idea Lab	Mr.C.Dhanesh	AICTE		Presentation completed online mode on 14-11-2022
6	Proposal for National Level Seminar on " AFB (Abrasive Fluidized Bed) Machining "	Mr.C.Dhanesh & Mr.S.R.Venkataraman	TNSCST	Rs.30,000	Submitted
7	Proposal seeking Grant-in-Aid for National Level Seminar on " Applications of Nano based fluids in heat transfer " for an amount of Rs.30,000	Mr.D.Srinivasan	TNSCST	Rs.30,000	Submitted

**DETAILS OF FACULTY INTERACTION WITH OUTSIDE
WORLD**

S.NO	NAME OF THE FACULTY	DETAILS OF INTERACTION WITH OUTSIDE WORLD
1.	Dr.P.Sevel	Presented a lecture as a resource person for the 6 days FDP on Dynamics of machines organized by Easwari Engineering College
2.	Mr.C.Krishnamurthy	Presented a lecture as a resource person for the 6 days FDP on Dynamics of machines organized by Easwari Engineering College



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