

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

Annual Technical Magazine 2022 - 2023

DEPARTMENT OF MECHANICAL ENGINEERING

VISION OF THE COLLEGE

Transform our institution into quality centre imparting updated technical education with character building.

MISSION OF THE COLLEGE

- To create an excellent teaching and learning environment for our staff and students to realize their full potential thus enabling them to contribute positively to the community.
- To significantly enhance the self-confidence level for developing creative skills of staff and students.

VISION OF THE DEPARTMENT

- **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.
- **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 OF THE DEPARTMENT

- **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 (PEOs)

I. Technical Learning : To develop the ability among students to synthesize and analyze data and technical concepts for application to engineering problems and to work as part of teams on multi disciplinary projects.

II. Expertise in Engineering : To provide students with a sound foundation in the basic sciences and mathematics enabling them to analyze and solve engineering problems and to prepare them for higher learning and research works.

III. Enhancement of Knowledge : To prepare students for successful careers in industry by catering to the needs of Indian and multinational companies through in- plant training and industrial real time projects which shall give more industrial exposure and practices inculcating professional ethics and codes of professional practice.

IV. Self Competence and Sustainability : To orient students with more Soft skills, personality development programmes enabling them a sustainable growth in their careers and to take up leadership positions.

PROGRAMME OUTCOMES (POs)

Engineering Graduates will be able to:

- 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 modeling 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 teamwork: 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 technologic

PROGRAMME SPECIFIC OUTCOMES (PSOs)

1. Modernization/trends/automation: Graduates will be able to design, develop and operate or document newer mechanical systems or processes using emerging practices enhancing the productivity.

2. Optimization and refinement: Graduates will be able to find sustainable, Cost effective and environmental friendly measures to existing technology.

GUEST LECTURE

S.A. ENGINEERING COLLEGE
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Poonamallee-Avadi Road, Veeraraghavapuram, Thiruverkadu, Chennai - 600 077.
DEPARTMENT OF MECHANICAL ENGINEERING
Organized
AWARENESS PROGRAM ON ROLE OF SIMULATION AND ANALYSIS IN RESEARCH & DEVELOPMENT USING ANSYS

Resource Person
Mr. M. Gokul Raj,
Senior Application Engineer,
Entuple Technologies Pvt Ltd.

Venue:
Mechanical Seminar Hall

3rd March 2022
@ 02.00 pm

The Department of Mechanical Engineering has conducted a Guest lecture on the topic “Hands on Training” on 3rd March 2022.

Resource Person - Mr. M. Gokul Raj, Senior Application Engineer, Mechanical, Entuple Technologies Pvt Ltd.

The Department of Mechanical Engineering has conducted a workshop on the topic “Application of CFD in Engineering” on 4th March 2022.

Resource Person - Mr. G. Sathish, Senior Application Engineer, Mechanical, Entuple Technologies Pvt Ltd.

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DEPARTMENT OF MECHANICAL ENGINEERING
Organized
INNOVATIVE IN ENGINEERING USING COMPUTATIONAL FLUID DYNAMICS

Resource Person
Mr. G. SATHISH,
Senior Application Engineer,
Entuple Technologies Pvt Ltd.

Venue:
Mechanical Seminar Hall

4th March 2022
@ 02.00 pm

The Department of Mechanical Engineering has conducted a Guest lecture on the topic “Latest Trends in Instrumentation” on 2nd May 2022.

Resource Person - Mr. N. Venkatesan, JMD, Sakthi Engineering, SIDO Industrial Estate, Kakkalur, Thiruvallur.

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DEPARTMENT OF MECHANICAL ENGINEERING
In Association with INSTITUTION'S INNOVATION COUNCIL
Organizes
GUEST LECTURE ON "LATEST TRENDS AND DEVELOPMENT IN INSTRUMENTATION"

Mr. N. Venkatesan,
JMD,
SAKTHI ENGINEERINGS,
SIDCO INDUSTRIAL ESTATE,
KAKKALUR, THIRUVALLUR.

PARTICIPANTS:
Final Years

Venue:
Mechanical Seminar Hall

02nd May 2022
@ 10.00 am



The Department of Mechanical Engineering has conducted a Guest lecture on the topic “Instrumentation Handling and GD & T” on 2nd May 2022.

Resource Person - Mr. N. Venkatesan, JMD, Sakthi Engineering SIDO Industrial Estate, Kakkalur, Thiruvallur.

The Department of Mechanical Engineering has conducted a Expert Talk on Innovation Development & Technology readiness level and communication of lab Technologies and Tech transfer on 26th February 2022.

Resource Person - Mr. R. Santhosh Raj, Business Development Manager, BYJUS.



WORKSHOP



The Department of Mechanical Engineering has conducted a workshop on the topic “Research Scopes in Advanced Manufacturing Processes on 4th April 2022. Resource Person - Dr. M. Duraiselvam, Professor, Department of Production Engineering, Dean-Planning and Development, NIT, Trichy.

VALUE ADDED COURSE



The Department of Mechanical Engineering has conducted a Value added course have been conducted to our students on the topic of Geometric dimensioning and tolerance on 7.3.22 to 9.3.22 and 15.3.22 & 29.3.22.

PLACEMENT TRAINING

The Department of Mechanical Engineering has conducted a Value added course have been conducted to our students by Core industrial Placement Training on Factory and Process Automation Phase- I on 27.12.21 to 30.12.21,3.1.22 to 6.1.22 and 2.3.22 to 3.3.22.



The Department of Mechanical Engineering has conducted a Value added course have been conducted to our students by Core industrial Placement Training on Factory and Process Automation Phase II 3.1.22 to 7.1.22.

FDP / SEMINAR / WORKSHOP/ SYMPOSIUM ORGANIZED

S.N O.	NATURE OF PROGRAM (SEMINAR, WORKSHOP ,FDP)	NAME OF THE PROGRAM	DETAILS OF THE GUEST(S)	DATE & DURATION	VENUE
1.	Online National Workshop	Two days virtual Workshop on “Artificial Intelligence and Machine Learning Approach in Renewable Energy Systems”	<p>Dr.Sendhil Kumar NatarajanNIT,Puducherry</p> <p>Dr.Raj K Jaiswal , School of Computer Science Engineering and Technology,Bennett University, UP,India.</p> <p>Dr.S.Chitrakala Professor,CEG-Anna University, Chennai.</p> <p>Dr.S.Albert Kongu Engineering Alexander Ph.D., PDF (USA), SMIEEE.,College.</p> <p>Dr.Sivakumar M Research Engineer, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya University, Kancheepuram.</p>	4th to 9th March 2022	Online
2.	Online National Workshop	1 WEEK ONLINE WORKSHOP ON "Research Scopes in Advanced Manufacturing Processes"	<p>Dr.Rer.Nat. Ravi Kumar, Professor, IIT Madras Dr.-Ing.</p> <p>M.Duraiselvam Professor, NIT Trichy</p> <p>Dr.P.Sevel Professor, S.A. Engineering College</p> <p>Dr.Alok Satapathy Professor, NIT Rourkela</p> <p>Dr.Prasanta Sahoo Professor, Jadavpur University, Kolkata</p> <p>Mr.C.Chenna Raidu Scientist – E, ToT Dvision, CVRDE, DRDO, Chennai</p>	4th to 9th April 2022	Online

3	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. Engineering College
4	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. Engineering College

AWARDS / INVITATIONS RECIVED BY FACULTY

S.NO	NAME OF THE FACULTY	AWARDS /INVITATION RECEIVED		
		DATE	NATURE OF AWARD/ INVITATION	GRANTING AUTHORITY/JOURNAL/CONFERENCE
1.	Dr.S.Baskar	25-02-2022	Invitation to be a speaker	Vel Tech Multi Tech DR. SR Engg. College
1.	Dr.P.Sevel	21-07-2022	Certificate of Appreciation for being a resource person in FDP on “ME8594- Dynamics of Machines”	Easwari Engineering College
2.	Mr.C.Krishna murthy	21-07-2022	Certificate of Appreciation for being a resource person in FDP on “ME8594- Dynamics of Machines”	Easwari Engineering College

AWARDS / INVITATIONS RECEIVED BY STUDENTS

S.NO	NAME OF THE STUDENT	AWARDS /INVITATION RECEIVED		
		DATE	NATURE OF AWARD/ INVITATION	GRANTING AUTHORITY/JOURNAL/CONFERENCE
1	Arul Muthu Kumaran	25.03.22	Completion certificate of In Plant Training	Hyundai Motor Ltd.
	Nirmal S			
2	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
3.	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
4.	PURUSHOTHAMA N 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						
15	AGILASH N				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

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			

STUDENTS PARTICIPATION

S. NO	DATE	EVENT	VENUE	NAME OF PARTICIPANTS & YEAR	PROFESSIONAL BODY/AFFILIATION /DETAILS OF SPONSORSHIP (IF ANY)	RE-MARK
1.	18.01.22	Quiz	Alpha College	Yeshvanth/ III	Alpha College	2 nd Prize
2.	25.04.22	Body Building	Mr.RMD Classic-2022 Thiruvallur	K.Sakthi manikandan/ IV	Thiruvallur District Amateur Body Building and Fitness Association	3 rd Prize
3.	6.05.22	Speech	TN Government Speech	Nilavazhagan/ III	TN Government Speech	Participated
4.	15.05.22	Seminar	CGI(Anna University)	Amirullakhan .H/III	Thiruvallur District Amateur Body Building and Fitness Association	3 rd Prize
5.	27.05.22	Hit the Humour	CIT	Venkatesh/ III	CIT	1 st Prize

DETAILS OF PATENTS & AWARDS RECEIVED BY STUDENTS

DATE	APPLICANT NAME,DEPT	TOPIC WITH IPR APPLICATION NUMBER
04/02/2022	Mr.D.Srinivasan, Mr.C.Dhanesh Dr.P.Sevel	Mobile app controlled Wheel Chair with Height Adjustment MechanismApp No.: 202241004331Published
11/02/2022	Mr. Vasanthe Roy J Mr. Roossvelt Prabhu Mr. Sathishkumar V	Low-cost Semi-automatic Fabric cutting machine for small scale garmentsApp No.: 202241005792Published
11/02/2022	Mr. S. Dhanasekar Dr. S. Ramachandran Mr. D. Prakash Dr. S. Baskar	Micro-Biomaterial Based Biodiesel Deriving Through EsterificationApp No.: 202241004739Published
16/02/2022	Mr. S. Praveen Kumar Mr. K. Parthasarathy Mr. G. Prabakaran Dr. S. Baskar Dr. S. Ramachandran	Novel X electrode flow channel to improve the performance of PEMFCApp No.: 202241008128Filed
04/03/2022	Mr. Ramu K N Mr. Manimaran K Mr. Sivaramakrishnan A Mr.Vasanthe Roy J	A low-cost ecofriendly multi-purpose machine for washing and grinding.202241010387Published
06/05/2022	Mr. C. Krishnamurthy Mr. S. R.Venkataraman Mr. K. Suresh Mr. J. Vasanthe Roy	Pneumatic Assisted Garbage Bin Modified For Effortless Handling202241023444Published
06/05/2022	Mr.Sabari Raj V Mr.Jeeva R Mr.Rajarajan S J Mr.Vasanthe Roy J	Aerodynamically Efficient Unmanned Aerial Vehicles for Blood Transportation202241023697Published
13/05/2022	Mr. R. Jeeva	A Data Processing Device For Electric Vehicle Based on IOT202241025599Published

11/02/2022	Venkatesh B Rajasekar R Pushparaj R Suresh Vasanth SR Manikandan R	Low-cost Semi-automatic Fabric cutting machine for small scale garments App No.: 202241005792 Published
11/02/2022	Sheshadri V	Micro-Biomaterial Based Biodiesel Deriving Through Esterification App No.: 202241004739 Published
<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

FACULTY ATTENDED

FDP / SEMINAR / WORKSHOP / CONFERENCE

S.NO	NAME OF THE FACULTY	SEMINAR/ WORKSHOP/CONFERENCE/CEP/FDP/QIP ATTENDED	NAME OF THE PROGRAMME	SPONSORS IF ANY
1.	Dr.P.Sevvel	FDP	Online FDP on "Modern Materials, Advanced Technologies for Infrastructure & Modelling of Mechanical Behavior of Composite Materials"	Vel Tech High Tech Dr.Sakunthala Engineering College, Chennai
2.		Workshop	2 Days Virtual Workshop on "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS"	S.A.Engineering College
3.		Conference	International Conference on Advanced Materials for Innovation and Sustainability	MLR Institute of Technology
4.		Conference	1stInternational Virtual Conference on Advances in Automobile, Manufacturing and Mechanical Engineering (ICAAMME 2022)	Easwari Engineering College
5.	Mr.S.R.Venkataraman	Workshop	2 Days Virtual Workshop on "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS"	S.A.Engineering College
6.		FDP	Finite Element Modeling of Welding Processes	NPTEL - AICTE(Funded by the MoE, Govt. of India)
7.	Mr.D.Srinivasan	FDP	Online FDP on "Modern Materials, Advanced Technologies for Infrastructure & Modelling of Mechanical Behavior of Composite Materials"	Vel Tech High Tech Dr.Sakunthala Engineering College, Chennai
8.		Conference	International Conference on Advanced Materials for Innovation and Sustainability	MLR Institute of Technology

9.	Mr.C.Dhanesh	Workshop	2 Days Virtual Workshop on "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS"	S.A.Engineering College
10.		FDP	Online FDP on "Modern Materials, Advanced Technologies for Infrastructure & Modelling of Mechanical Behavior of Composite Materials"	Vel Tech High Tech Dr.Sakunthala Engineering College, Chennai
11.		FDP	Six Day Online FDP on " APPLIED THERMODYNAMICS FOR ENGINEERS"	Sri Venkateshwara College of Engineering
12.		FDP	Five Day FDP on Applications of Machine Learning in Healthcare Technology	Narayana Engineering College, Nellore
13.	Mr.C.Krishna murthy	Workshop	2 Days Virtual Workshop on "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS"	S.A.Engineering College
14.		Online FDP	Online FDP on " Modern Materials, Advanced Technologies for Infrastructure & Modelling of Mechanical Behavior of Composite Materials"	Vel Tech High Tech Dr. Sakunthala Engineering College, Chennai
15.	Mr.S.Dhanasekar	Workshop	2 Days Virtual Workshop on "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS"	S.A.Engineering College
16.		Online FDP	Online FDP on " Modern Materials, Advanced Technologies for Infrastructure & Modelling of Mechanical Behavior of Composite Materials"	Vel Tech High Tech Dr. Sakunthala Engineering College, Chennai
17.	Mr.K.Parthasarathy	Workshop	2 Days Virtual Workshop on "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS"	S.A.Engineering College

18.	Mr. R.Jeeva	Workshop	2 Days Virtual Workshop on "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS"	S.A.Engineering College
19.		Online FDP	Online FDP on " Modern Materials, Advanced Technologies for Infrastructure & Modelling of Mechanical Behavior of Composite Materials"	Vel Tech High Tech Dr. Sakunthala Engineering College, Chennai
20.	Mr.K.Suresh	Workshop	2 Days Virtual Workshop on "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS"	S.A.Engineering College
21.	Mr. V. Sabari raj	Workshop	2 Days Virtual Workshop on "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS"	S.A.Engineering College
22.	Mr. A. Sivaramakrishnan	Workshop	2 Days Virtual Workshop on "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS"	S.A.Engineering College
23.		FDP	Six Day Online FDP on " APPLIED THERMODYNAMICS FOR ENGINEERS"	Sri Venkateshwara College of Engineering
24.		Online FDP	Online FDP on " Modern Materials, Advanced Technologies for Infrastructure & Modelling of Mechanical Behavior of Composite Materials"	Vel Tech High Tech Dr. Sakunthala Engineering College, Chennai
25.		FDP	Three-day FDP on ANSYS and Computational Fluid Dynamics	Hindusthan College of Engineering and Technology, Coimbatore
26.		FDP	Five Days Online FDP on Recent Innovations and Developments in Energy Technologies (RIDET)	Velammal Engineering College

27.	Mr.G.Prabaharan	Workshop	2 Days Virtual Workshop on "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS"	S.A.Engineering College
28.		Online FDP	Online FDP on " Modern Materials, Advanced Technologies for Infrastructure & Modelling of Mechanical Behavior of Composite Materials"	Vel Tech High Tech Dr. Sakunthala Engineering College, Chennai
29.	Mr.K.A.V. Roosvelt prabhu	Online FDP	Online FDP on " Modern Materials, Advanced Technologies for Infrastructure & Modelling of Mechanical Behavior of Composite Materials"	Vel Tech High Tech Dr. Sakunthala Engineering College, Chennai
30.		FDP	FDP on "Emerging Technologies in Mechanical Engineering"	Jeppiar Institute of Technology
31.		FDP	Online UHV Refresher FDP	AICTE
32.	Mr.K.N.Ramu	Workshop	2 Days Virtual Workshop on "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS"	S.A.Engineering College
33.		FDP	FDP on "Emerging Technologies in Mechanical Engineering"	Jeppiar Institute of Technology
34.	Mr.V.Sathishkumar	Workshop	2 Days Virtual Workshop on "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS"	S.A.Engineering College
35.		Online FDP	Online FDP on " Modern Materials, Advanced Technologies for Infrastructure & Modelling of Mechanical Behavior of Composite Materials"	Vel Tech High Tech Dr. Sakunthala Engineering College, Chennai
36.	Mr.S.Praveenkumar	Workshop	2 Days Virtual Workshop on "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS"	S.A.Engineering College

38.	Mr. S.J.Rajaraman	Workshop	2 Days Virtual Workshop on "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS"	S.A.Engineering College
39.		FDP	FDP on "Emerging Technologies in Mechanical Engineering"	Jeppiar Institute of Technology
40.		FDP	Six Day Online FDP on " APPLIED THERMODYNAMICS FOR ENGINEERS"	Sri Venkateshwara College of Engineering
41.	Mr.J.Vasanthe Roy	Workshop	2 Days Virtual Workshop on "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS"	S.A.Engineering College
42.		Coursera	Finite Element Analysis Convergence and Mesh Independence	Coursera Project Network
43.		Online Training Course	Optimization Onramp	Math Works Training Services
44.	Mr.K.Manimaran	Workshop	2 Days Virtual Workshop on "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS"	S.A.Engineering College
45.		Online FDP	Online FDP on " Modern Materials, Advanced Technologies for Infrastructure & Modelling of Mechanical Behavior of Composite Materials"	Vel Tech High Tech Dr. Sakunthala Engineering College, Chennai
46.		FDP	FDP on "Emerging Technologies in Mechanical Engineering"	Jeppiar Institute of Technology
47.	Mr.D.Prakash	Workshop	2 Days Virtual Workshop on "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS"	S.A.Engineering College
48.		Online FDP	Online FDP on " Modern Materials, Advanced Technologies for Infrastructure & Modelling of Mechanical Behavior of Composite Materials"	Vel Tech High Tech Dr. Sakunthala Engineering College, Chennai
49.		FDP	Three-day Faculty Development Programme on ANSYS and Computational Fluid Dynamics	Hindusthan College of Engineering and Technology, Coimbatore

50	Dr SEVVEL P	Online Course	Finite Element Analysis Convergence and Mesh Independence	-
51	Dr SEVVEL P	FDP	Advancements in Thermal and Renewable Energy Technologies (ATRET-2022)	(ATRET-2022)
52	Dr SEVVEL P	SEMINAR	Scope of Data Science and Artificial Engineering in Mechanical Engineering	SAVEETHA ENGINEERING
53	Dr SEVVEL P	Online Course	Machine Learning Onramp	MATHWORKS
54	Dr SEVVEL P	CONFERENCE	Recent trends in fabrication of Parts using fused deposition modeling (fdm) – a review	RIST 2022
55	Dr SEVVEL P	CONFERENCE	Latest developments in Mechanisms and methods for fabrication of parts using laser Directed energy deposition (lded) – a review	RIST 2022
56	Dr SEVVEL P	Online Course	Effective time management for professionals	Udemy

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

66	Mr K Manimaran	FDP	Inculcating Universal Human Values in Technical Education	AICTE
67	Mr K Manimaran	FDP	Advance Research in Friction Welding and its Engineering Applications	Rajalakshmi Engineering College
68	Mr C Dhanesh	FDP	Advance Research in Friction Welding and its Engineering Applications	Rajalakshmi Engineering College
69	Mr K Manimaran	<u>Online Course</u>	Finite Element Analysis Convergence and Mesh Independence	Coursera
70	Mr K Manimaran	SEMINAR	Scopus of data Science and Artificial Intelligence in Mechanical Engineering.	Saveetha Engineering College
71	Mr K Manimaran	FDP	Automation System Design & Simulation using Automation Studio Software	Dell soft Tech
72	Mr S Praveenkumar	<u>Online Course</u>	Foundations, Data, Data Everywhere	Coursera
73	Mr S Praveenkumar	FDP	The Role of Artificial Intelligence in Renewable Energy Applications	KPRIET
74	Mr S Praveenkumar	SEMINAR	Scopus of data Science and Artificial Intelligence in Mechanical Engineering.	Saveetha Engineering College

75	Mr K A V Roosvelt Prabhu	FDP	Futuristic Research in Mechanical Engineering	SRMIST
76	Mr S J Rajaraman	SEMINAR	Finite Element Analysis Convergence and Mesh Independence.	Coursera
77	Mr S J Rajaraman	FDP	Automation System Design & Simulation using Automation Studio Software	Dell soft Tech
78	Mr S J Rajaraman	FDP	Advance Research in Friction Welding and its Engineering Applications	Rajalakshmi Engineering College
79	Mr K N Ramu	FDP	Advance Research in Friction Welding and its Engineering Applications	Rajalakshmi Engineering College
80	Mr K N Ramu	FDP	Inculcating Universal Human Values in Technical Education	AICTE
81	Mr K N Ramu	CONFERENCE	FABRICATION OF MULTI CONFIGURATION UNMANNED AERIAL VEHICLE	RIST 2022
82	Roosvelt Prabhu K A V	FDP	Advance Research in Friction Welding and its Engineering Applications	Rajalakshmi Engineering College

83	Roosvelt prabhu K A V	FDP	ADDITIVE MANUFACTURING	VTMT Engineering College.
84	Roosvelt prabhu K A V	<u>Online Course</u>	Linear, Nonlinear Analysis & Post Processing	COURSERA
85	S DHANASEKA R	SEMINAR	Scopus of data Science and Artificial Intelligence in Mechanical Engineering.	Saveetha Engineering College
86	S DHANASEKA R	<u>Online Course</u>	Finite Element Analysis Convergence and Mesh Independence	COURSERA
87	S DHANASEKA R	FDP	Inculcating Universal Human Values in Technical Education	AICTE
88	J Vasanthe Roy	FDP	Advancements in Thermal and Renewable Energy Technologies	ATRET
89	J Vasanthe Roy	Conference	International conference on Advances in Material science and Technology (ICAM 2022)	-
90	J Vasanthe Roy	FDP	The Role of Artificial intelligence in Renewable Energy Applications	KPRIET
91	J Vasanthe Roy	FDP	Advance Research in Friction Welding and its Engineering Applications	Rajalakshmi Engineering College

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

PATENTS, AWARDS & INVITATION RECEIVED BY FACULTY

2021 Magazine

DATE	APPLICANT NAME, DEPT	TOPIC WITH IPR APPLICATION NUMBER
04/02/2022	Mr.D.Srinivasan,Mr.C.Dhanesh andDr.P.SevvelDept of Mechanical Engineering, S.A. Engineering College, Chennai	Mobile app controlled Wheel Chair with Height Adjustment MechanismApp No.: 202241004331Published
11/02/2022	Mr. Vasanthe Roy JMr. Roossvelt PrabhuMr. Sathishkumar VDept of Mechanical Engineering, S.A. Engineering College, Chennai	Low-cost Semi-automatic Fabric cutting machine for small scale garmentsApp No.: 202241005792Published
11/02/2022	Mr. S. DhanasekarDr. S. RamachandranMr. D. PrakashDr. S. BaskarDept of Mechanical Engineering, S.A. Engineering College, Chennai	Micro-Biomaterial Based Biodiesel Deriving Through EsterificationApp No.: 202241004739Published
16/02/2022	Mr. S. Praveen KumarMr. K. ParthasarathyMr. G. PrabakaranDr. S. BaskarDr. S. RamachandranDept of Mechanical Engineering, S.A. Engineering College, Chennai	Novel X electrode flow channel to improve the performance of PEMFCApp No.: 202241008128Filed
04/03/2022	Mr. Ramu K NMr. Manimaran KMr. Sivaramakrishnan AMr.Vasanthe Roy J	A low-cost ecofriendly multi-purpose machine for washing and grinding.202241010387Published
06/05/2022	Mr. C. KrishnamurthyMr. S. R.VenkataramanMr. K. SureshMr. J. Vasanthe Roy	Pneumatic Assisted Garbage Bin Modified For Effortless Handling202241023444Published
06/05/2022	Sabari Raj VJeeva RRajarajan S JVasanthe Roy J	Aerodynamically Efficient Unmanned Aerial Vehicles for Blood Transportation202241023697Published
13/05/2022	Mr. R. Jeeva	A Data Processing Device For Electric Vehicle Based on IOT202241025599Published

21/07/2022	Mr. A. Sivaramakrishnan Dr. P. Sevvil 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
30/11/2022	Mr. Vasanthe Roy J Mr. Roossvelt 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
30/11/2022	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 Published on 09/12/2022
30/11/2022	Mr. Ramu K NMr. Manimaran KMr. Prakash D Dept of Mechanical Engineering, S.A. Engineering College, Chennai	MECHANICAL BURR COLLECTOR 202241068930 Published on 09/12/2022
30/11/2022	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

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

PATENTS APPLIED / PUBLISHED

SL.NO	APPLICANTS NAME	TOPIC	APPLICATION NUMBER	STATUS (PUBLISHED/ APPLIED)
1	Sabari Raj VJeeva RRajarajan S JVasanth Roy J	Aerodynamically Efficient Unmanned Aerial Vehicles for Blood Transportation	App No.:202241023697	06/05/2022
2	Mr. C. KrishnamurthyMr. S. R.VenkataramanMr. K. SureshMr. J. Vasanth Roy	Pneumatic assisted garbage bin modified for effortless handling	App No.: 202241023444	06/05/2022
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
1.	Dr.P.Sevvel	Tilt angle impact on strength, microstructure of friction stir welded AZ91CMg plates	Materials Science And Technology	12-10-2022

1.	Dr.S.Vishvanathperum al	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)	
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FACULTY INTERACTION WITH OUTSIDE WORLD

S.NO	NAME OF THE FACULTY	DETAILS OF INTERACTION WITH OUTSIDE WORLD
1.	Dr. S. Baskar	Presented a lecture on the topic on “How to Write an Effective Research Paper” organized by the Department of Mechanical Engineering, Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College.
2	Dr.P.Sevel	Presented a lecture as a resource person for the 6 days FDP on Dynamics of machines organized by Easwari Engineering College
3	Mr.C.Krishnamurthy	Presented a lecture as a resource person for the 6 days FDP on Dynamics of machines organized by Easwari Engineering College

CLASSWISE TOPPERS - JUNE-2022

SEMSTER- IV

Section A

S.NO	YEAR	REGISTER NO.	STUDENT NAME	PERCENTAGE OBTAINED	POSITION
1	IIYR	111920ME01017	VISHVA V	83	1
2	IIYR	111920ME01304	ARJUN P	82.88	2
3	IIYR	111920ME01343	SHREE VISSHNU K	82.5	3
4	IIYR	111920ME01329	KUMARASAN R	73	4
5	IIYR	111920ME01321	JAYABASKAR S	72.25	5

Section B

S.NO	YEAR	REGISTER NO.	STUDENT NAME	PERCENTAGE OBTAINED	POSITION
1	IIYR	111920ME01007	KARTHICKEYAN R	76.38	1
2	IIYR	111920ME01325	KARTHIKEYAN B	73.5	2
3	IIYR	111920ME01339	PURUSHOTHAMAN R	73.25	3
4	IIYR	111920ME01306	BALAJI M	73.13	4
5	IIYR	111920ME01003	BALAKUMAR A	73	5

CLASSWISE TOPPERS - JUNE-2022

SEMSTER- VI

Section A

S.NO	YEAR	REGISTER NO.	STUDENT NAME	PERCENTAGE OBTAINED	POSITION
1	IIIIYR	111919114304	MOHAMMED AABID.H	79.44	1
2	IIIIYR	111919114315	SATHISHKUMAR S	78.44	2
3	IIIIYR	111919114313	RAKSHITH.S.V	77.56	3
4	IIIIYR	111919114010	MOHAMED ABU SHAWQUI	76.56	4
5	IIIIYR	111919114302	KOUSHIK AMRISH. P	76.33	5

Section B

S.NO	YEAR	REGISTER NO.	STUDENT NAME	PERCENTAGE OBTAINED	POSITION
1	IIIIYR	111919114022	YUGESH J	80.22	1
2	IIIIYR	111919114005	JASWANTH R	79.78	2
3	IIIIYR	111919114309	PRASANTH.D	75.67	3
4	IIIIYR	111919114023	YUVARAJ M	75.22	4
5	IIIIYR	111919114317	SHIYAM CHAND R.U	74.89	5
6	IIIIYR	111919114321	VIJAY.K	74.89	5
7	IIIIYR	111919114324	NIRMAL V	74.89	5

CLASSWISE TOPPERS - JUNE-2022

SEMSTER- VIII

Section A

S.NO	YEAR	REGISTER NO.	STUDENT NAME	PERCENTAGE OBTAINED	POSITION
1	IVYR	111918114029	JAIGANESH G	82.67	1
2	IVYR	111918114063	RAVINDER J	82	2
3	IVYR	111918114092	VENKATESH B	81	3
4	IVYR	111918114060	PREM SUNDAR R	79	4
5	IVYR	111918114031	JAWAHAR K R	78.67	5

Section B

S.NO	YEAR	REGISTER NO.	STUDENT NAME	PERCENTAGE OBTAINED	POSITION
1	IVYR	111918114083	SUDHARSAN S	87.33	1
2	IVYR	111918114032	JAYAKUMAR C	85	2
3	IVYR	111918114088	SWARAJ K	84	3
4	IVYR	111918114033	JEEVA R	83.33	4
5	IVYR	111918114057	PRADEEP K V	82.67	5

Section C

S.NO	YEAR	REGISTER NO.	STUDENT NAME	PERCENTAGE OBTAINED	POSITION
1	IVYR	111918114006	AKASH K	83.67	1
2	IVYR	111918114041	MAHESH KUMAR S	83.67	1
3	IVYR	111918114100	YASHWANTH KUMAR S	83	2
4	IVYR	111918114027	HEMANTH KUMAR C	81.67	3
5	IVYR	111918114085	SURESH R	81	4
6	IVYR	111918114089	THIRUNAVUKKARASU G R	81	4
7	IVYR	111918114058	PRAKALESH V	80.33	5



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