

# **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'21**

## **EVEN SEMESTER**

*Newsletter 2021 - 2022*

## **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.
- 
- **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



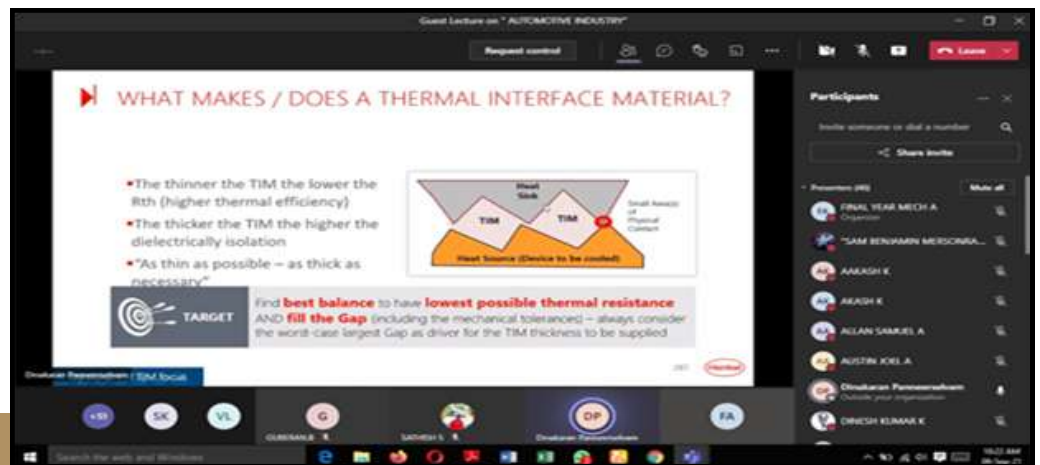
**DATE: 27.08.21**



The Department of Mechanical Engineering has conducted a Career Awareness and Entrepreneurship Programme, Resource Person - Mr. Gokulakannan Narasimhan, Senior Recruiter, Servicenow.



**DATE: 08.09.21**



The Department of Mechanical Engineering has conducted a Guest Lecture on “Automotive Industry”, Resource Person - Mr. P. Dinakaran, Deputy Manager, Technical Customer Service –South Henkel Adhesive Technologies India Pvt Ltd.



**DATE:23.10.21**

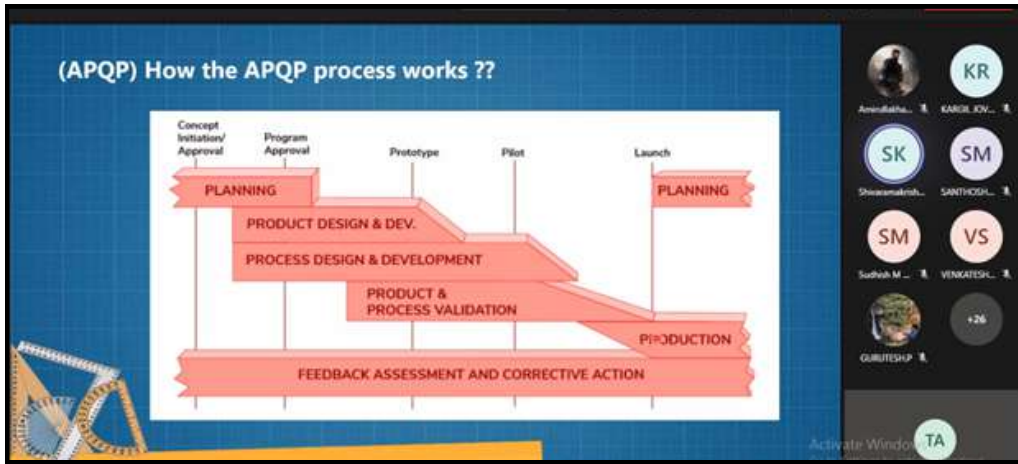
The Department of Mechanical Engineering has conducted a Guest Lecture on “Innovation on advanced Manufacturing”, Resource Person-Mr. Sivaramakrishnan .K, Project Manager, ZF WABCO.



**DATE:23.10.21**



The Department of Mechanical Engineering has conducted a Guest Lecture on “Automotive Industry”, Resource Person - Mr. P. Dinakaran, Deputy Manager, Technical Customer Service –South Henkel Adhesive Technologies India Pvt Ltd.

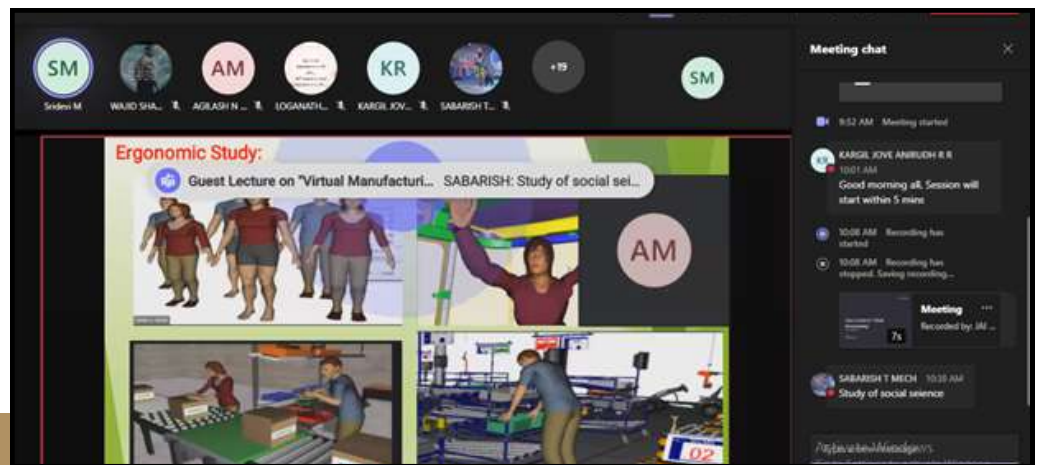


**DATE:31.10.21**

The Department of Mechanical Engineering has conducted a Guest Lecture on “Innovation on Core Tools in Automotive Industry”, Resource Person-Mr. Sivaramakrishnan .K, Project Manager, ZF WABCO



**DATE:05.11.21**



The Department of Mechanical Engineering has conducted a Guest Lecture on Guest Lecture on “Innovation on Core Tools in Automotive Industry”, Resource Person-Ms. Sridevi M, Senior Manufacturing Engineer, Caterpillar, Ascendes IT PARK, TARAMANI

## *ELECTRIC VEHICLE*

### Future of Electric Vehicles in India

Accelerate the future of transportation. Learn about the future of electric vehicles in India.



**DATE : 27.01.21**

The Department of Mechanical Engineering has conducted a Webinar on “Electric Vehicle”, Resource Person-Mr.Rajendra Prasad Nalluri Head Business Support Cloud Kampus.

# WORKSHOP!



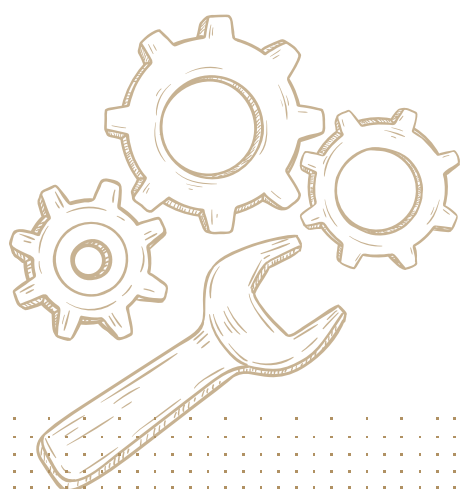
Our students have attended the workshop on the title **Research Scopes in Additive Manufacturing** from 20.09.21 to 24.09.21 to the students of year from II, III & IV year, Resource person Dr. M. Duraiselvam, Professor, Department of Production Engineering, Dean-Planning and Development, NIT, Trichy.



Sl. No	Name of the Co-ordinator	Name of the Proposal	Funding Agency Name	Funding Amount	Date of Proposal Sending
1)	Dr.P.Sevvel (PI)	Fabricating Ti16Zr alloy dental implants with porous scaffold structures using selective laser melting: Analysis of bio-compatibility and surface modifications	Empowerment and Equity Opportunities for Excellence in Science, Science and Engineering Research Board (SERB), New Delhi-110070	Rs. 28,76,232	18-07-2021
2)	Dr.P.Sevvel (PI) Dr.R.Geetha (CO – PI)	An ontology based 3D digital documentation of Masilamaniswara Temple integrating techniques of terrestrial laser scanning and unmanned aerial vehicle digital photogrammetry	Science and Heritage Research Initiative (SHRI) – DST, Technology Bhawan, New Mehrauli Road New Delhi-110 016	Rs.33,62,364	09-08-2021
3)	Dr. S. Baskar (Convener) Mr.S.Praveenkumar (Co-convener)	Artificial Intelligence and Machine Learning Approach in Renewable Energy Systems (Workshop)	Science and Engineering Research Board (SERB), New Delhi-110070	Rs. 65,000	28-12-2021

# FDP / SEMINAR / WORKSHOP/ SYMPOSIUM ORGANIZED

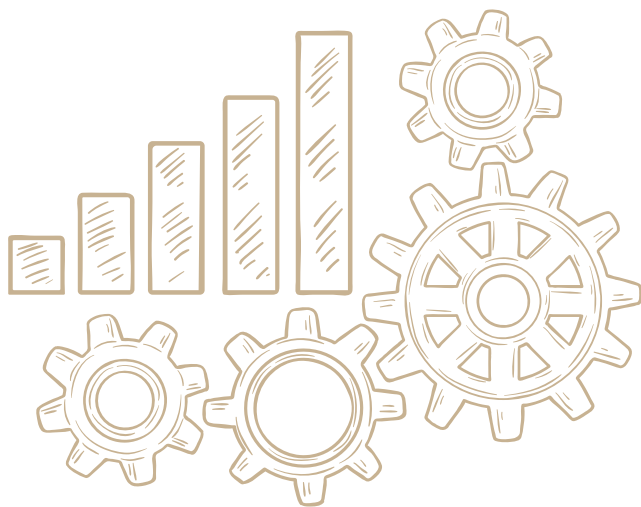
Sl No	NATURE OF PROGRAM	NAME OF THE PROGRAM	DETAILS OF THE GUEST(S)	DETAILS OF THE PARTICIPANTS	DATE & DURATION	VENUE
1)	Online National Workshop	5 Days Online National Workshop on Research Scopes in Additive Manufacturing	<p>Dr. T. Ram Prabhu, Scientist – D, CEMILAC, DRDO, Bengaluru.</p> <p>Dr.-Ing. M. Duraiselvam, Professor, NIT - Trichy</p> <p>Dr. K. Senthilkumaran, AP   Mech, IIITDM Kancheepuram.</p> <p>Dr. Sagar M, Baligheid Associate Professor, CMR Institute of Technology, Bengaluru</p> <p>Dr.P.Sevel Professor, Mechanical SAEC</p>	167	20th to 24th September 2021	Online



# FACULTY ATTENDED FDP / SEMINAR / WORKSHOP

Sl. No	NAME OF THE FACULTY	SEMINAR/WS/ CONFERENCE/ CEP/FDP/QIP ATTENDED	NAME OF THE PROGRAMME	VENUE	DATE / DURATION
1)	Mr. C. Dhanesh	Webinar	Recent Advancements and Optimization Practices in Renewable Energy Industries	Online	11/06/2021 / 1 day
2)	Mr. D. Prakash	Webinar	Recent Advancements and Optimization Practices in Renewable Energy Industries	Online	11/06/2021 / 1 day
3)	Mr. S.R. Venkataraman	Webinar	National Education Policy (NRP 2020)	Online	12/06/2021 / 1 day
4)	Mr. D. Prakash	Webinar	National Education Policy (NEP 2020)	Online	12/06/2021 / 1 day
5)	Mr. S.R. Venkataraman	Webinar	National Education Policy (NEP 2020)	SA Engg. Coll	12/06/2021 (1 day)
6)	Dr. S. Baskar	Webinar	Recent Innovations in Science & Technology (RIST 2021)	Online	19/06/2021 - 20/06/2021 / 2 days
7)	Mr. D. Prakash	Webinar	Presentation and Public Speaking Skills	Online	27/06/2021 / 1 day
8)	Mr. S.R. Venkataraman	FDP	Advancements in composite Materials	Online	28/06/2021 -02/07/2021 / 5 days

9)	Mr. R. Jeeva	FDP	Design of Experiments	Online	28/06/2021 – 02/07/2021 / 5 days
10)	Mr. R. Jeeva	Online FDP	Design of Experiments	Bharath Engineering College	28/06/21 – 02/07/21 (5 days)
11)	Mr. S.R. Venkataraman	FDP	Advancements in Composite Materials	Bharath Institute of Science and Technology	28/6/21 – 02/07/21 (5 days)



# UHV COMPLETED FACULTY

Sl. No	NAME OF THE FACULTY	SEMINAR/ WS/ CONFERENCE/ CEP/FDP/QIP ATTENDED	NAME OF THE PROGRAMME	VENUE	DATE / DURATION
1)	Mr. S.R. Venkataraman	FDP	Inculcating Universal Human Values in Technical Education	AICTE	25/10/21 – 29/10/21 (5 days)
2)	Mr. G. Prabakaran	FDP	Inculcating Universal Human Values in Technical Education	AICTE	25/10/21 – 29/10/21 (5 days)
3)	Mr. S. Praveenkumar	FDP	Inculcating Universal Human Values in Technical Education	AICTE	8/11/21 – 12/11/21 (5 days)
4)	Mr. Roosvelt Prabhu	FDP	Inculcating Universal Human Values in Technical Education	AICTE	22-11-21 to 26-11-21 (5 days)
5)	Mr.S.J.RAJA RAJAN	FDP	Inculcating Universal Human Values in Technical Education	AICTE	22-11-21 to 26-11-21 (5 days)

<b>S No</b>	<b>DATE</b>	<b>EVE NT</b>	<b>VENUE</b>	<b>NA,ME of PARTICIP ANTS and YEAR Sec</b>	<b>PROFESSIONAL BODYAFFLIATION /DETAILS OF SPONSORSHIP (IF ANY)</b>	<b>RE- MAR K</b>
1.	22.12.2021	Hack Atho n	S.A.Engi neering College	K.Shreevis shnu/II	S.A.Engineering College	Partici pated
2.	22.12.2021	Hack Atho n	S.A.Engi neering College	D.M.Moha nkrishna/II	S.A.Engineering College	Partici pated
3.	22.12.2021	Hack Atho n	S.A.Engi neering College	B.Pradap/I I	S.A.Engineering College	Partici pated
4.	22.12.2021	Hack Atho n	S.A.Engi neering College	M.Karthic k/II	S.A.Engineering College	Partici pated
5.	22.12.2021	Hack Atho n	S.A.Engi neering College	G.Purusho th kumar/III A	S.A.Engineering College	Partici pated
6.	22.12.2021	Hack Atho n	S.A.Engi neering College	Rakesg.L/I II A	S.A.Engineering College	Partici pated
7.	22.12.2021	Hack Atho n	S.A.Engi neering College	Mohanaarr iharan .K/III A	S.A.Engineering College	Partici pated

8.	22.12.2021	Hack Athon	S.A.Engineering College	Vishwanath. B/III A	S.A.Engineering College	Participated
9.	22.12.2021	Hack Athon	S.A.Engineering College	E.Rupesh/II I A	S.A.Engineering College	Participated
10.	22.12.2021	Hack Athon	S.A.Engineering College	R.V.Shiyamchand/III B	S.A.Engineering College	Participated
11.	22.12.2021	Hack Athon	S.A.Engineering College	R.Deepakumar/II	S.A.Engineering College	Participated
12.	22.12.2021	Hack Athon	S.A.Engineering College	A.Jeevabharathi/II	S.A.Engineering College	Participated
13.	22.12.2021	Hack Athon	S.A.Engineering College	R.Purushothaman/II	S.A.Engineering College	Participated
14.	22.12.2021	Hack Athon	S.A.Engineering College	N.Agilash/II	S..A.Engineering College	3rd Prize
15.	22.12.2021	Hack Athon	S.A.Engineering College	Vishwanath. B/III A	S.A.Engineering College	Participated

## FACULTY RESEARCH WORK

S.NO	NAME OF THE RESEARCH SCHOLAR WITH DESIGNATION	RESEARCH AREA & TOPIC	RESEARCH GUIDE (Name, Design., Address)	NAME OF THE UNIVERSITY IN WHICH Ph.d IS REGISTERED	DATE OF REGISTRATION
1.	Mr.D.Srinivasan Associate Professor	Friction Stir welding of aluminium alloys	Dr.P.Sevvel Professor, SAEC	AUC – Reg.No16152997314	AUC 04/07/2016
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	AUC 20/12/2016
3.	Mr.C.Krishnamurthy Assistant Professor	Dynamic characteristics of polymer matrix composite using Natural fibers	Dr.M.S.Jagatheshwaran, Associate Professor, SAEC	AUC-Reg.No 17142991126	AUC 20/12/2016
4.	Mr.Dhanesh.C Assistant Professor	Exhaust Heat Recovery in IC Engines	Dr. J. Venkatesan Professor, SVCE	AUC-Reg.No 1325299830	AUC 18/6/2013

5.	Mr.Suresh K Assistant Professor	Mechatronics based design and development of magneto rheological abrasive flow machining for Nano surface finishing	Dr.Karuppas amy K Professor, AU- Tirunelveli	AUC- Reg.No 1614289111	AUC 30/12/ 2015
6.	Mr.L. Anantha Raman Assistant Professor	Optimization of swirl ratio on HSDI Diesel Engine for better performance and lower exhaust emissions.	Dr. S. Rajakumar Associate Professor	AUC- Reg.No 1414289124	AUC 03/01/ 2014

## DETAILS OF RESEARCH WORK (External Candidates)

S.NO	NAME OF THE SUPERVISOR WITH DESIGNATION	NAME OF THE RESEARCH SCHOLAR WITH DESIGNATION WITH ADDRESS	RESEARCH AREA & TOPIC	DATE OF REGISTRATION.	STATUS OF RESEARCH WORK
1.	Dr.P.Sevvel	Mr.Satheesh C Asst.Professor	Analysis of parameters for Deep hole drilling	28/06/2017	Synopsis submitted
1.	Dr.P.Sevvel	Dhanesh Babu S.d Asst.Professor	Generation of Mathematical Model for Peak Temperature distribution during FSW process	January 2016	Synopsis submitted
1.	Dr.P.Sevvel	Giridharan K Asst.Professor	Experimental Study on Mechanical Properties of Friction Stir Welded Dissimilar Joints of Aluminium Alloys AA8011-AA6082	January 2016	Confirmation completed

1.	Dr.P.Sevvel	Kandukuri Anilbasha Asst.Professor	Joining of magnesium alloy with low carbon steel by cold metal transfer (cmt) arc welding process	July 2019	Course work
1.	Dr.P.Sevvel	Yokesh Kumar B Asst.Professor	Influence of tool rotational speed on microstructural characteristics of dissimilar Mg alloys during friction stir welding	January 2016	Confirmation completed
1.	Dr.P.Sevvel	Lokesh Kumar P J Asst.Professor	Fabrication of Nano Composites for Automobile Applications	July 2018	Course work
1.	Dr.P.Sevvel	John Solomon I Asst.Professor	effect of different layer thickness and pulse frequency on fabrication of thin walled az31 magnesium alloy using wire arc additive manufacturing	July 2019	Course work

8.	Dr.P.Sevvel	Gunasekaran J Assistant Professor	Selective Laser Meltig	January 2020	Course work
1.	Dr.P.Sevvel	Yokesh Kumar B Asst.Professor	Influence of tool rotational speed on microstructural characteristics of dissimilar Mg alloys during friction stir welding	January 2016	Confirm ation complete d
1.	Dr.P.Sevvel	Lokesh Kumar P J Asst.Professor	Fabrication of Nano Composites for Automobile Applications	July 2018	Course work
1.	Dr.P.Sevvel	John Solomon I Asst.Professor	effect of different layer thickness and pulse frequency on fabrication of thin walled az31 magnesium alloy using wire arc additive manufacturing	July 2019	Course work

9	Dr.S.Baskar	Mr.N. Nagabhooshanam Asst.Professor	A microstructure analysis of aluminium alloys using Aluminium gravity die casting process	AUC 28/12/2016	Thesis submitted
10	Dr. M.S.Jagatheshwaran	Mr. A. Suheal	Friction and wear characteristics of electroless NiP coating incorporated with nano capsules	1/03/2021	Course work
11	Dr. M.S.Jagatheshwaran	Mr. Devaraj.S	Electroless cermet nano composite coatings for high temperature tribology application	20/01/2021	Course work
12	Dr. M.S.Jagatheshwaran	Mr.Sathish.K	Tribological behavior of NiP electroless coating with nano particles	22/01/2021	Course work
13	Dr. M.S.Jagatheshwaran	Mr. J. Srinivas	A study on mechanical and tribological behaviour of Al-Zr composite using stir casting	21/01/2021	20/01/2021

### 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.
1.	Dr. P. Sevvel	Impact of speed of traverse during joining of CDA101 plates by FSW process	Scientia Iranica
1.	Dr. P. Sevvel	Effect of Tool Pin Geometry and Process Parameters During FSW of Dissimilar Alloys of Mg	Materials Research
1.	Dr.P.Sevvel	Generation of force and torque during joining of AZ91C plates by FSW under distinctive tool tilt angle and their impact on mechanical strength and micro-structure”,	Journal of Adhesion Science and Technology
1.	Dr.P.Sevvel	A brief review on the manufacturing of metal components using selective laser melting	Materials Today Proceedings
1.	Dr.P.Sevvel	A review on additive manufacturing of alloys using laser metal deposition	Materials Today Proceedings
1.	Dr S Baskar	Process optimization using grey relational analysis in dry sliding wear behavior on SiC/B4C/Talc reinforced Al 6061 hybrid metal matrix composite	Metallurgical Research & Technology <b>118</b> , 614 (2021)

1.	Dr.S.Vishvanathperumal	Halloysite Nanotubes (HNTs)-Filled Ethylene-Propylene-Diene Monomer/Styrene-Butadiene Rubber (EPDM/SBR) Composites: Mechanical, Swelling, and Morphological Properties	Silicon
1.	A. Sivaramakrishnan	Parametric study of basin saline water in single slope solar still using CFD modelling	AIP Conference Proceedings 2396, 020009 (2021);
1.	R.Jeeva	Internal Logistics optimization in the assembly line using lean techniques	Recent Advances in Manufacturing, Automation, Design and Energy Technologies pp 731-739
1.	L. Anantharaman	A review on recent trends in the microbial production of biodiesel	AIP Conference Proceedings 2396, 020007 (2021);
1.	Dr. P. Sevvel	Microstructural analysis and mechanical behaviour of copper CDA 101/AISI-SAE 1010 dissimilar metal welds processed by friction stir welding	Materials Research
1.	<u>Dr. S. Vishvanathperumal</u>	<u>Properties of SBR/NR Blend: The Effects of Carbon Black/Silica (CB/SiO<sub>2</sub>) Hybrid Filler and Silane Coupling Agent</u>	<u>Silicon</u>
1.	<u>Dr. S. Vishvanathperumal</u>	Modeling tensile modulus of nanoclay filled ethylene–propylene–diene monomer/styrene–butadiene rubber using composite theories	<u>Journal of Rubber Research</u>

1.	Mr. S. Praveenkumar and <u>Dr. S. Baskar</u>	Intensification of proton conductivity through polymer electrolytic membrane using novel electrode pattern	Journal of the Indian Chemical Society
1.	Mr.D.Srinivasan and Dr. P. Sevvel	A review on Cold Metal Transfer (CMT) technology of welding	Materials Today Proceedings
1.	K.Suresh	Effect of Silane Treated Wheat Husk Biosilica (WHB) Deionized Water Dielectric on EDM Drilling of Ti-6Al-4V Alloy	Silicon
1.	Mr. S.R.Venkataraman	Optical Microstructure, FESEM, Micro Tensile and Micro Hardness properties of LM 25- B4Cnp-Grnp hybrid composites manufactured by Selective Laser Melting	Advances in Materials science and Engineering
1.	Mr. D.Prakash	Experimental investigation on the average surface roughness (Ra) of AlSi10Mg alloy manufactured by L-PBF method	Advances in materials science and engineering
1.	Mr.S.Dhanasekar	Study of Mechanical properties on Ferric oxide microparticles reinforced with polyethylene	Advances in Materials science and Engineering
1.	<u>Dr. S Baskar</u>	Optimization of Process Parameter on AA8052 Friction Stir Welding Using Taguchi's Method	Advances in Materials Science and Engineering

**DETAILS OF PATENTS, AWARDS & INVITATION RECEIVED BY FACULTY**

S.N O	NAME OF THE FACUL TY	AWARDS /INVITATION RECEIVED			DETAILS OF APPLICATION OF PATENTS		
		DATE	NATUR E OF AWARD / INVITA TION	GRANTIN G AUTHORI TY / JOURNAL / CONFERE NCE	DATE	APPLICANT NAME,DEPT	TOPIC WITH IPR APPLICATION NUMBER
1	Dr.S.B askar	24/12/2 021	Session chair Invitatio n	1st International Conference on <b>Water Energy &amp; Environment</b> [WEECON 2021] organized by <b>ISET Research India</b> in association with <b>IEI Vietnam</b>	19/11/20 21	Dr.P.Sevvel, Professor, Dept of Mechanical Engineering, S.A. Engineering College, Chennai	Height adjustable Wheel Chair  <b>App No.:</b> 350259- 001  <b>Granted</b>

# 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.	Arul Muthu Kumaran	13.12.21	Participation in Technical Quiz	MEVOLUTION National symposium, DMI College of Engineering
1.	S.Mahesh Kumar	24.12.21	Completion certificate of In Plant Training	M&E Engineering Dept., Chennai Port Trust.
1.	S.Karthikeyan			
1.	Hareesh BS	26.10.21	Completion certificate of 1 month Internship (27.09.2021 to 26.10.2021)	Sundaram Clayton Ltd.
1.	Dhivakaran P			
1.	Ganesh S			
1.	Mahesh Kumar	25.10.21	Completion certificate of Internship	Brakes India Pvt. Ltd.
1.	Santhosh Kumar R	06.01.22	Completion certificate of Project in Industry	Wheels India
1.	Santhosh Kumar R	02.11.21	Completion certificate of Project in Industry	CVRDE, DRDO, Avadi.
1.	Kargil Jove Anirudh	18.10.21	Completion certificate of Project in Industry	CVRDE, DRDO, Avadi.

## DETAILS OF GRANTS (RECEIVED /APPLIED)

S.No.	TITLE OF RESEARCH PROPOSAL	PI / RESEARCH COORDINATOR(S)	FUNDING ORGANIZATION	FUND REQUESTED
<u>1.</u>	Fabricating Ti16Zr alloy dental implants with porous scaffold structures using selective laser melting: Analysis of bio-compatibility and surface modifications	<b>Dr.P.Sevel (PI)</b>	Empowerment and Equity Opportunities for Excellence in Science, Science and Engineering Research Board (SERB), New Delhi-110070	Rs. 28,76, 232
<u>2.</u>	An ontology based 3D digital documentation of Masilamaniswara Temple integrating techniques of terrestrial laser scanning and unmanned aerial vehicle digital photogrammetry	<b>Dr.P.Sevel (PI)</b> <b>Dr.R.Geetha (CO – PI)</b>	Science and Heritage Research Initiative (SHRI) – DST, Technology Bhawan, New Mehrauli Road New Delhi-110 016	Rs.33,62,364
<u>3.</u>	Artificial Intelligence and Machine Learning Approach in Renewable Energy Systems (Workshop)	<b>Dr. S. Baskar (Convener)</b> <b>Mr.S.Praveenkumar (Co-convener)</b>	Science and Engineering Research Board (SERB), New Delhi-110070	Rs. 65,000

## REQUISITION OF SEED AMOUNT/FUND FOR GRANT RECEIVED

S.N O	TITLE OF RESEARCH PROPOSAL	PRINCIP AL INVESTI GATOR	DETAILS OF THE FUND	REMARKS
1.	2 days Virtual Workshop on ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING APPROACH IN RENEWABLE ENERGY SYSTEMS	Dr. S. Baskar	FUNDING ORGANIZATION	SERB
			DATE OF APPROVAL OF GRANT	
			AMOUNT GRANTED	Rs: 50,000
			EVENT CONDUCTION APPROVAL	YES/NO (EC F01 Enclosure as Proof)
			EXPECTED EXPENDITURE	
			REQUIRED SEED AMOUNT/FUND	Rs. 50,000

## DETAILS OF FACULTY INTERACTION WITH OUTSIDE WORLD

S.N O	NAME OF THE FACULTY	DETAILS OF INTERACTION WITH OUTSIDE WORLD
1	Dr.P.Sevel	Reviewed papers for the SCI Journal “Metals”

## Faculty Awards, Recognition, Fellowship

S.No.	Name of full time teachers receiving awards from state level, national level, international level	Name of the award, fellowship, received from Government or recognized bodies
1.	Dr.P.Sevel (State Level)	“Outstanding Researcher Award” from VDGGOOD Professional Association

## LIST OF MOUs

S.NO	NAME OF THE ORGANIZATION / COMPANY / INSTITUTE	DATE OF MOU SIGNED	LINKAGE OF THE MoU	BENEFITS OF MoU
1.	RAMAMURTHY METAL WORKS	27.08.2021	General agreement	<ul style="list-style-type: none"> <li>• Technological knowledge Transfer</li> <li>• Industrial Project opportunities for students.</li> <li>• Industrial visits and Internships</li> </ul>
2.	HEXAIND TECHNOLOGIES AND SERVICES LLP	27.08.2021	General agreement	<ul style="list-style-type: none"> <li>• Industrial Project opportunities for students.</li> </ul>



# **EDITORIAL BOARD**

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**MECHNICAL**

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**MECHANICAL**

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