



Sri Chandrasekharendra Saraswathi Viswa
Mahavidyalaya (SCSVMV)

Enathur, Kanchipuram, Tamilnadu - 631 561

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Mechanical Engineering Association (MEA)

News Letter

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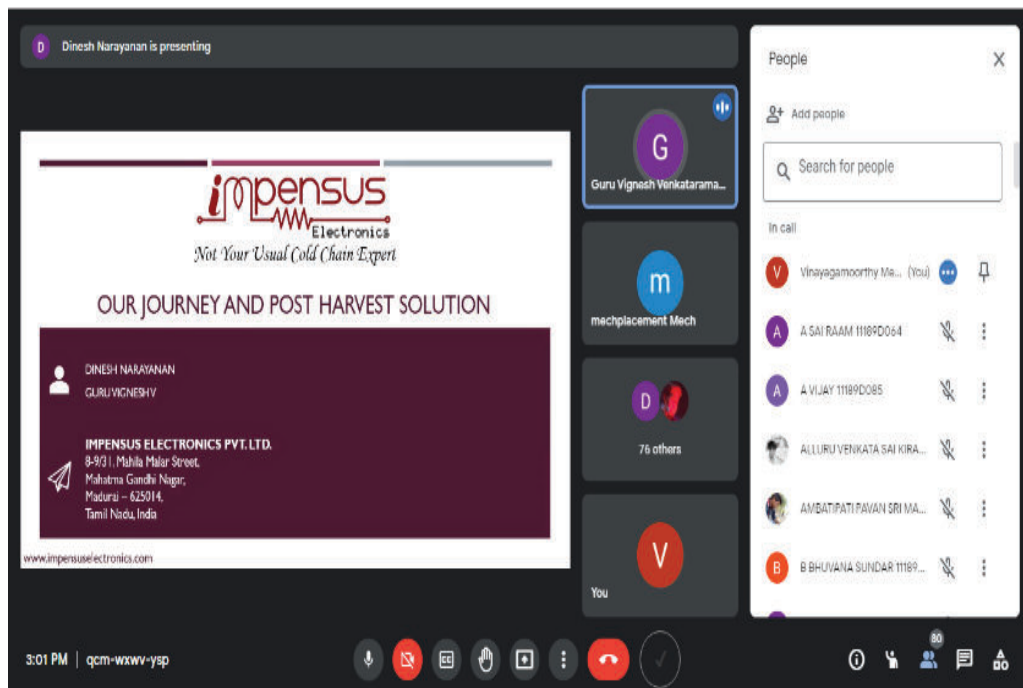
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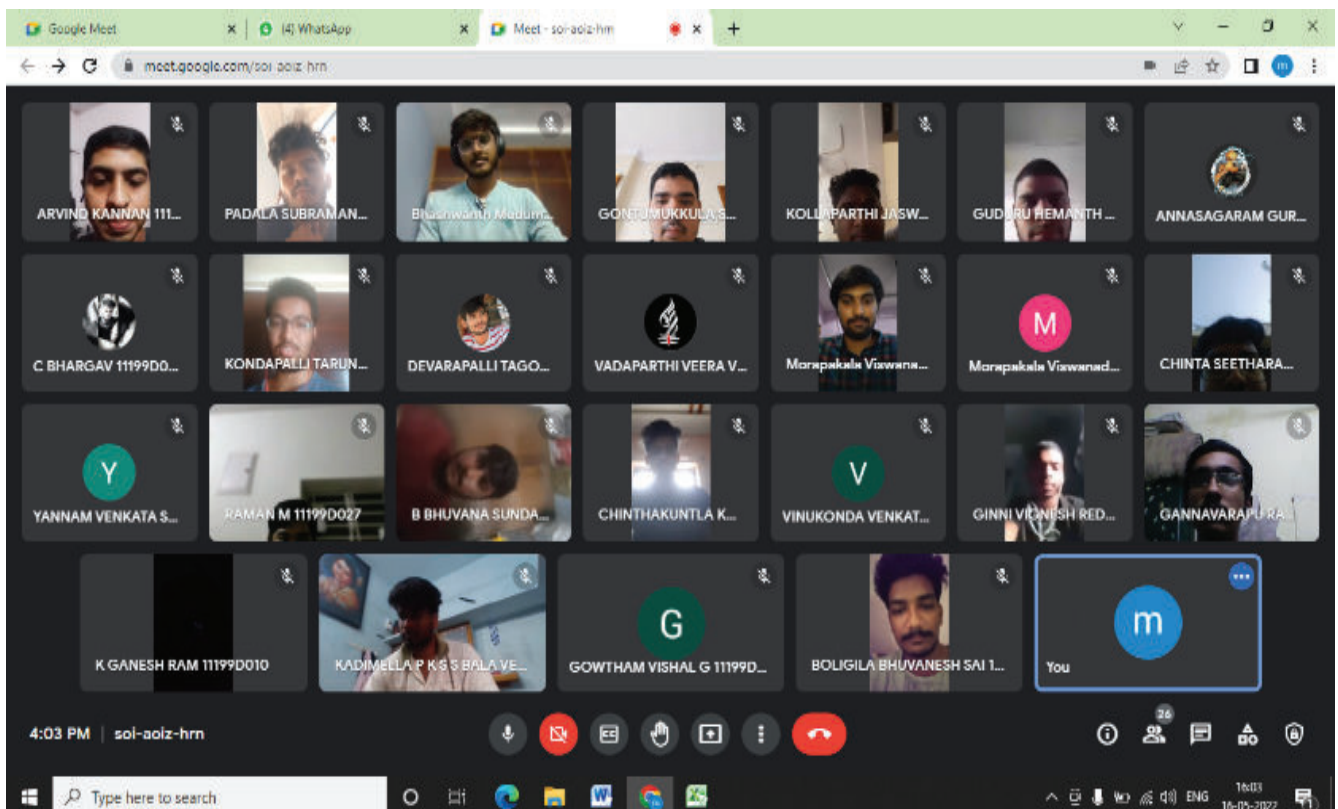
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Webinars/Workshops/Conferences/Seminars/FDPs Organized by the department

A webinar was held on Programme on Start-ups on Feb 14, 2022 from 4:00 PM to 5:00 PM. The eminent speaker was Mr. R. Venkatraman, Entrepreneur, Business Coach, Life Mentor with 89 registrations and 81 attendees.

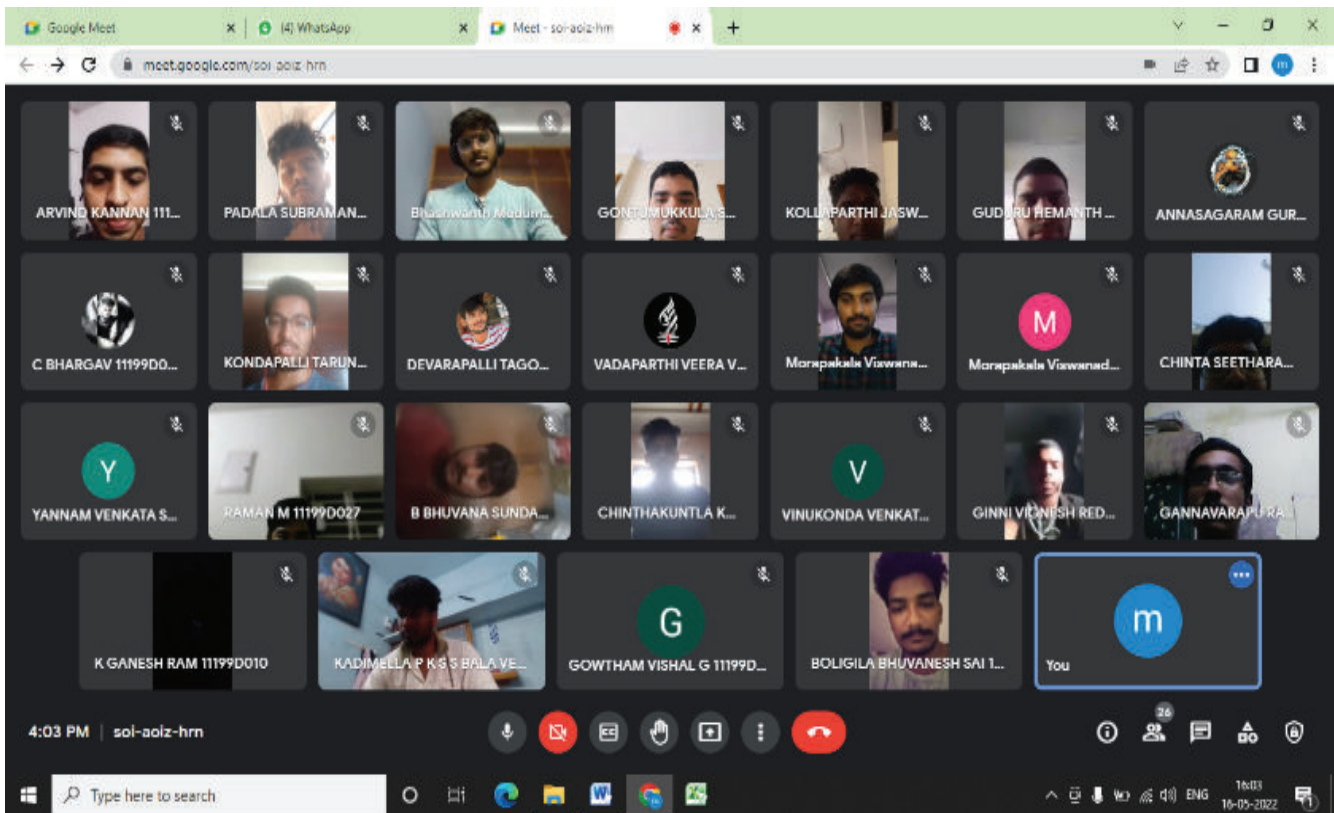


A webinar was held on Programme on Start-ups on Feb 14, 2022 from 4:00 PM to 5:00 PM. The eminent speaker was Mr. R. Venkatraman, Entrepreneur, Business Coach, Life Mentor with 89 registrations and 81 attendees.



Webinars/Workshops/Conferences/Seminars/FDPs Organized by the department

Lecture on "Placement Procedures in IT Companies": A webinar was held on Lecture on "Placement Procedures in IT Companies" on May 16, 2022 from 3:00 PM to 4:00 PM. The eminent speakers B. Bhuvana Sundar, Mudumba Sai Bhashwanth M. Viswanadha Praneet (2022 Passed out), Dept. of Mechanical Engg, SCSVMV with 35 registrations and 28 attendees.

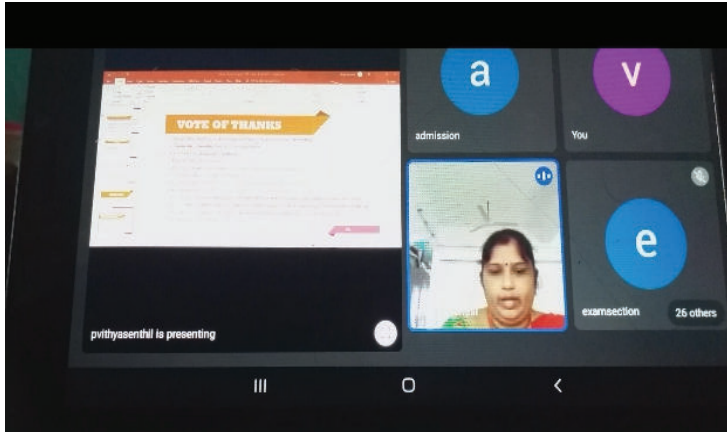


Research Colloquiums

1. Sri S Bharani Kumar, a mechanical engineering research scholar, presented his research investigation on "Studies on the Effect of Particles During Electrical Discharge Machining of Al6061-SiC Metal Matrix Composites (MMC)" during the occasion of the research colloquium on 24.02.2022.



Public Viva-Voce



A public viva-voce has been held for Mrs P Vithya, a research scholar of mechanical engineering entitled, "Synthesis of Rapeseed Oil Based Refrigeration Oil on Performance and Tribological Investigation of Vapour Compression Refrigeration System" on 09.03.2022 at Seminar hall, Department of Mechanical Engineering, SCSVMV.

A public viva-voce has been held for Sri R Ellappan, a research scholar of mechanical engineering based on his research investigation on "Corrosion studies on IC engine components under bio-lubricant bio diesel combination" on 20.03.2022 at Department of Mechanical Engineering, SCSVMV.



A Public viva-voce has been held for Sri R Balamkumar, a research scholar of mechanical engineering based on his research investigation on "Study of Biodiesel Synthesis from Waste Ayurvedic Oil on its Evaluation of Engine Performance, Emission, and Tribological Characteristics." on 07.12.2022 at Department of Mechanical Engineering, SCSVMV.



Expert Visit

Dr. K Balasubramaniun, Director of the Non-ferrous Materials Technology Development Centre (NFTDC), Hyderabad, Telangana, visited our university on 19.03.2022 for the initiative of the collaborative workshop, research, and developments on e-vehicle, and joint programs of master in engineering on advanced manufacturing and e-vehicles.

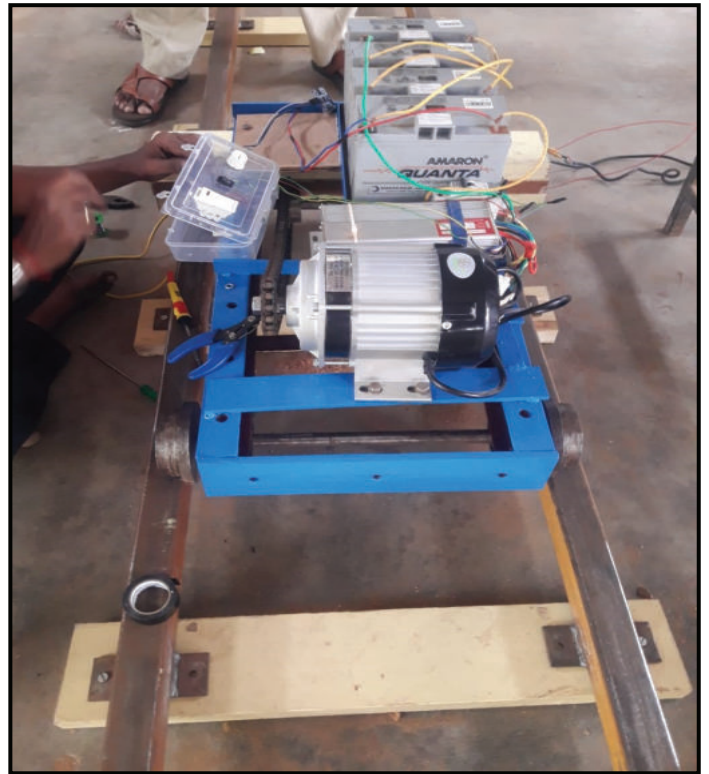


Significant reportable activities

Food Train

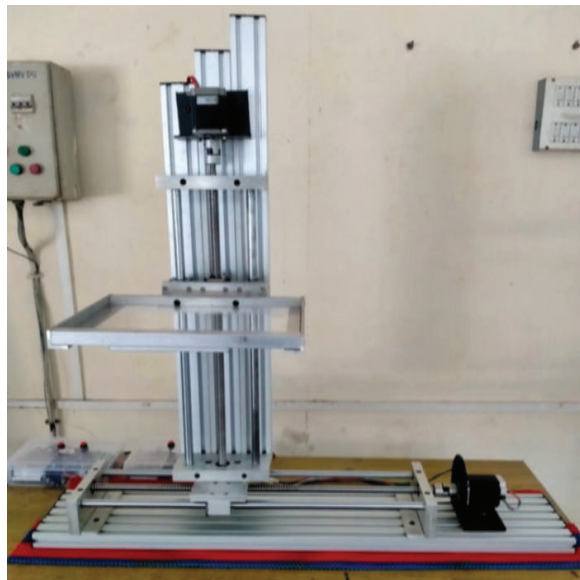
The food train is a customized vehicle in which the motion takes place without driver intervention. Food train is a mobile robot that can automatically navigate and transport materials from one location to another. It can deliver efficient, cost-effective movement of materials and can be applied to various requirements in standard or customized designs to best suit any application. This project has been done by SCSVMV for the purpose of transferring food from the cooking area to the dining area. The work has been started with the fabrication of a separate metal track to move the train from one point to another. Chassis has been designed by using mild steel plates and is used for placing the batteries, mounting the wheels, motors, control board and sensors. Wheels and axels have been developed by machining and the wheels have been keyed on the axle, keeping the distance between the wheels same as that of the rail tracks. Once the wheels are mounted, a DC motor is fixed on the chassis by using a separate platform. Power is given to the driving wheels through a chain drive connecting the sprockets placed on the motor shaft and the driving axle. A control board has been made possessing the micro-controller and its circuit. It has been programmed to drive the motor in both the directions. Brakes are applied to the vehicle by using sensors. A proximity sensor has been placed at the front end of the chassis which precisely detects obstructions if any in front of the vehicle and sends the signal to the controller. The controller then produces signal to cut-off the power supplied to the motor. The flow of signal takes place from the operator via ON/OFF switch and from there; the signal directly goes to the micro-controller.

Significant reportable activities



Microcontroller then sends the signal to the motor and the motor drives the wheels. A separate switch has been given for moving the vehicle to move in the opposite direction. The entire setup has been developed and successfully tested to move in both linear and circular motion.

Manuscript Image Capturing Device



Preservation of ancient palm leaf manuscript is the essential, though its difficult to preserve physically, the scripts in the palm leaves can be digitized by using high Resolution camera and stored in the computer for long duration. The present automated manuscript capturing device is developed to capture the scripts in the manuscripts with different length. It contains two axis movement controlled by the stepper motor and ball screw mechanism with supporting steel rods. The horizontal ball screw is used to move along longitudinal direction based on the length of the manuscript. The vertical ball screw housing holds the camera/Tab for capturing the scripts. The focal length of the camera/tab can be adjusted by using vertical ball screw controlled by the stepper motor.

Squat Rack

The squat rack is one of the most important pieces of equipment for every gym member. It is a type of weight lifting apparatus with two movable metal posts that hold a barbell. In addition to other exercises, a squat rack enables one to perform dead-lifts, barbell lunges, and, pull-ups, etc. Such squad rack was fabricated in central work shop with team of teaching and non-teaching faculty members. The device was designed and fabricated with premium quality steel which can support up to 150 Kgs Weight Capacity. Currently, the squad rack equipment was placed in central gym for the exercise purposes.



Welding Inspection

Steel roof trusses have become one of the best alternatives to wood roof trusses. It is essentially a triangulated system of straight, interconnected structural elements that are joined at the nodes by welding. The complex process of the fabrication of these trusses requires skilled labour, tools, and techniques to form the specific structures.

Plasma cutters were used to cut the steel into the correct shape for the trusses. Also, the assembly work was carried out with respect to the truss type, location, wind exposure, span, and desired roof slope using both press baking and rolling processes. The welding joints, such as butt, lap, and tee joint configurations, were carried out on the assembled part of the steel, with the additional plates in different locations of the trusses.

The mechanical department faculty properly inspected the welded joints to detect welding defects in various regions of the trusses. Also, the defective regions of the joints were rewelded to improve the strength of the steel roof trusses. Currently, the steel roof trusses are on the top floor of the Vishalakshi Boys Hostel and Meenakshi Girls Hostel on university premises.



Start-up program



The Department of Mechanical Engineering at SCSVMV organized a three-day workshop on "Start-up" from March 13 to 15, 2023. with Dr. T. Rajmohan, Associate Professor of Mechanical Engineering at SCSVMV, serving as the resource person, and Dr. S. Vijayabhaskar, Assistant Professor of Mechanical Engineering at SCSVMV, as the coordinator. This workshop aimed to provide participants with a comprehensive understanding of startups, their legal structures, funding opportunities, and the necessary steps to establish and run a successful startup company.

Guest Lecture Delivered by the faculty members



Dr R Balakumar, Assistant Professor delivered a guest lecture on "Comprehensive Source for Bio-diesel" for IInd year and IIIrd year students on 27.02.2023 at St. Joseph College of Engineering, Sriperumbudur

Patent Published

The following four patents published by the faculty members between March 2022 to March 2023.

(12) PATENT APPLICATION PUBLICATION (21) Application No.202341013072 A
 (19) INDIA
 (22) Date of filing of Application :27/02/2023 (43) Publication Date : 31/03/2023

(12) PATENT APPLICATION PUBLICATION (21) Application No.202241012969 A
 (19) INDIA
 (22) Date of filing of Application :10/03/2022 (43) Publication Date : 11/11/2022

(54) Title of the invention : DRONE ASSISTED SPRAYING

(51) International classification	:A61K 356300, B64C 390200, B64D 011800, G05D 010000, G05D 011000
(86) International Application No	:NA
(87) International Publication No	:NA
(61) Patent of Addition to Application Number	:NA
(62) Divisional to Application Number	:NA
(71)Name of Applicant :	1)DR. S. VIJAYABHASKAR Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA 631561. -----
(72)Name of Inventor :	1)DR. S. VIJAYABHASKAR Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA 631561. -----
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	3)A. GURU SAI ESWAR Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA 631561. -----
	4)P.G. NAVEEN Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA 631561. -----
	5)M.RAMAN Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA 631561. -----

(54) Title of the invention : DESIGN AND DEVELOPMENT OF MECHANICAL BOWLING MACHINE

(51) International classification	:G06F0001160000, G02B0021240000, A63F0013000000, A61P0003040000, H01F0011000000
(86) International Application No	:NA
(87) International Publication No	:NA
(61) Patent of Addition to Application Number	:NA
(62) Divisional to Application Number	:NA
(71)Name of Applicant :	1)Dr. A. NANDAKUMAR Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA 631561. -----
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	3)A.P.S. MAHAVEER Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA 631561. -----
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	5)D. NAVEEN Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA 631561. -----
	6)B. MOULI Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA 631561. -----

(12) PATENT APPLICATION PUBLICATION (21) Application No.202241011794 A
 (19) INDIA
 (22) Date of filing of Application :04/03/2022 (43) Publication Date : 11/11/2022

(12) PATENT APPLICATION PUBLICATION (21) Application No.202241011797 A
 (19) INDIA
 (22) Date of filing of Application :04/03/2022 (43) Publication Date : 11/11/2022

(54) Title of the invention : RADAR SPEED GUN

(51) International classification	:G01S0013580000, G01S0013600000, G01S0013920000, G01F0001660000, G01S0013280000
(86) International Application No	:NA
(87) International Publication No	:NA
(61) Patent of Addition to Application Number	:NA
(62) Divisional to Application Number	:NA
(71)Name of Applicant :	1)Dr. S. ARUMUGAM Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA, 631561 -----
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	2)Mr. R. BALAKUMAR Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA, 631561 -----
	3)B. SYAM SAI ESWAR Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA, 631561 -----
	4)B. SAI SUMANTH Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA, 631561 -----
	5)B. RAGHAVENDRA Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA, 631561 -----
	6)G. PAVAN NIVAS REDDY Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA, 631561 -----
	7)G. NVSK LEEJA DINAKAR Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA, 631561 -----

(54) Title of the invention : AYURVEDIC MEDICINE PREPARATION-SMART FLOUR MAKING MACHINE

(51) International classification	:A61K0036670000, A61K0033300000, A63B0026000000, H02K0053000000, A61K0033340000
(86) International Application No	:NA
(87) International Publication No	:NA
(61) Patent of Addition to Application Number	:NA
(62) Divisional to Application Number	:NA
(71)Name of Applicant :	1)Dr. T. RAJMOHAN Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA, 631561 -----
(72)Name of Inventor :	1) Dr. T. RAJMOHAN Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA, 631561 -----
	2)Mr. R. BALAKUMAR Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA, 631561 -----
	3)MANYAM HARI KRISHNA Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA, 631561 -----
	4)DATHA SATYA SAI SRIVATSA Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA, 631561 -----
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	6)K. MANIDEEP Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SCSVMV, ENATHUR, KANCHIPURAM, TAMIL NADU, INDIA, 631561 -----

Faculty development program / Symposium/ Seminars/ Workshops/ Webinars attended by the faculty members

S No	Date	Faculty Name	Program title of the following: FDP / Symposium / Seminars / Workshops / Webinars	Institute organised, Venue
1	04-03-2022 to 05-03-2022	Dr S Arumugam	Artificial Intelligence & Machine learning approach in renewable energy systems	S A Engineering College, Chennai.
2	23-05-2022 to 28-05-2022	Dr S Arumugam	Envisioning Pathways in Thermal Sciences	SRM Institute of Science & Technology, Chennai.
3	14-03-2022 to 16-03-2022	Dr A Nandakumar	The Essence of Mathematics in Engineering	Muthayammal Engineering College, Rasipuram.
4	23-05-2022 to 28-05-2022	Dr A Nandakumar	Envisioning Pathways in Thermal Sciences	SRM Institute of Science & Technology, Chennai.
5	04-03-2022 to 05-03-2022	Dr A Nandakumar	Recent Advancements in Envirostructural confluence	Mahendra Engineering College, Namakkal.
6	09-02-2022	Dr A Nandakumar	Sustainability Science: A Multidisciplinary Apporoach	Yashwantrao Chavan College of Science, Karad.
7	12-02-2022	Dr A Nandakumar	Environmental Impact Assessment	Jodhpur Institute of Engineering and Technology, Jodhpur.
8	25-02-2022 to 26-02-2022	Dr A Nandakumar	Creativity and Innovation in Technology Development	SS College of Engineering, Udaipur, Rajasthan.
9	21-03-2022 to 26-03-2022	Dr A Nandakumar	Environmental Sustainability and Research Ethics	Avinashilingam University, School of biosciences, Coimbatore.
10	18-04-2022 to 23-04-2022	Dr K Palani	Next Generation Computing: Key Trends, Challenges and Opportunities	SRM Institute of Science & Technology, Chennai.

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11	14-03-2022 to 19-03-2022	Dr K Palani	Fundamentals on German Language	Department of Mechanical Engineering, SCSVMV, Kanchipuram.
12	19-02-2022 to 24-02-2022	Dr S D Sathish Kumar	Advanced Research Methodology: Tools and Techniques	Bon Secours College for Women, Thanjavur.
13	14-03-2022 to 16-03-2022	Dr S D Sathish Kumar	The Essence of Mathematics in Engineering	Muthayammal Engineering College, Rasipuram.
14	21-03-2022 to 25-03-2022	Dr S D Sathish Kumar	Advancements in Security using Deep Learning	GMR Institute of Technology, Rajam, AP.
15	18-04-2022 to 23-04-2022	Dr S D Sathish Kumar	Next Generation Computing: Key Trends, Challenges and Opportunities	SRM Institute of Science & Technology, Chennai.
16	21-03-2022 to 23-03-2022	Dr S D Sathish Kumar	Challenges towards Global Competence	Dr.MGR Educational and Research Institute, Chennai.
17	04-03-2022 to 05-03-2022	Dr S D Sathish Kumar	Artificial Intelligence & Machine Learning Approach in Renewable Energy Systems	S.A. Engineering College, Chennai.
18	03-04-2022	Dr S D Sathish Kumar	Digital Tools for HR in Internet and Social Media	Department of HRM, Dr.MGR Educational and Research Institute, Chennai.
19	30-03-2022	Dr S D Sathish Kumar	Employability Skills	Department of HRM, Dr.MGR Educational and Research Institute, Chennai.
20	11-04-2022 to 10-05-2022	Dr S D Sathish Kumar	Certificate Course on 30 Days Master Class on Java Programming	Pantech e Learning Private Limited.

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S No	Date	Faculty Name	Program title of the following: FDP / Symposium / Seminars / Workshops / Webinars	Institute organised, Venue
21	28-02-2022 to 29-03-2022	Dr S D Sathish Kumar	Certificate Course on 30 Days Master Class on Python Programming	Pantech e Learning Private Limited.
22	21-02-2022 to 03-03-2022	Dr P Vithya	Applications of Artificial Intelligence in Digital Manufacturing	Sri Sai Ram Engineering College, Chennai.
23	25-05-2022	Dr R Balakumar	Digital Twin in Robotics	SIMATS School of Engineering, Saveetha Group, Chennai.
24	23-05-2022 to 28-05-2022	Dr R Ellappan	Envisioning Pathways in Thermal Sciences	
25	23-05-2022 to 28-05-2022	Dr P Chengareddy	Envisioning Pathways in Thermal Sciences	SRM Institute of Science & Technology, Chennai.
26	23-05-2022 to 28-05-2022	Dr G Venkatakoteshwara Rao	Envisioning Pathways in Thermal Sciences	SRM Institute of Science & Technology, Chennai.
27	23-05-2022 to 28-05-2022	Dr G Venkatakoteshwara Rao	Design Thinking And Rapid Prototyping: An Entrepreneurship And Startup Approach	National Institute of Technology (NIT), Arunachalpradesh.
28	04-03-2022 to 05-03-2022	Dr G Venkatakoteshwara Rao	Artificial Intelligence & Machine Learning Approaches in renewable energy systems	S A Engineering College, Chennai.
29	08-10-2022	Dr R Vinayagamoorthy	Outcome Based Education (OBE) and its Attainment	Karpagam Academy of Higher Education, Coimbatore.
30	23-11-2022 to 22-12-2022	Dr R Vinayagamoorthy	Artificial Intelligence	Pantech e Learning.

Faculty development program / Symposium/ Seminars/ Workshops/ Webinars attended by the faculty members

S No	Date	Faculty Name	Program title of the following: FDP / Symposium / Seminars / Workshops / Webinars	Institute organised, Venue
31	12-09-2022 to 17-09-2022	Dr R Vinayagamoorthy	Future Trends of Automotive Drives	S.R.M. Institute of Science and Technology, Kattankulathur.
32	07-11-2022 to 11-11-2022	Dr A Tamilarasan	Thermal Science and Materials Engineering	Srinivasa Ramanujan Institute of Technology (Autonomous), Ananthapuramu, AP.
33	12-09-2022 to 17-09-2022	Dr S Vijayabhaskar	Future Trends of Automotive Drives	S.R.M. Institute of Science and Technology, Kattankulathur.
34	07-11-2022 to 11-11-2022	Dr S Vijayabhaskar	Thermal Science and Materials Engineering	Srinivasa Ramanujan Institute of Technology (Autonomous), Ananthapuramu, AP.
35	01-09-2022 to 30-09-2022	Dr S D Sathishkumar	30 Days Java Fullstack Masterclass	Pantech e Learning Private Limited, Chennai.
36	30-06-2022	Dr S D Sathishkumar	NPTEL e-awareness Workshop	Indian Institute Technology (IIT) Madras.
37	10-11-2022	Dr S D Sathishkumar	Big Data Analytics	Sri Mittapalli College of Engineering in association with Pantech e Learning Private Limited, Chennai.
38	12-10-2022 to 12-11-2022	Dr S D Sathishkumar	30 Days Image Processing Using Open CV Masterclass	Pantech e Learning Private Limited, Chennai.
39	20-09-2022 to 21-10-2022	Dr S D Sathishkumar	30 Days Data science 2.0 Masterclass	Pantech e Learning Private Limited, Chennai.
40	20-09-2022 to 21-10-2022	Dr S D Sathishkumar	30 Days Master Class on ESD & IOT	Pantech e Learning Private Limited, Chennai.

Faculty development program / Symposium/ Seminars/ Workshops/ Webinars attended by the faculty members

S No	Date	Faculty Name	Program title of the following: FDP / Symposium / Seminars / Workshops / Webinars	Institute organised, Venue
41	11-07-2022 to 12-08-2022	Dr S D Sathishkumar	30 Days Master Class on Python Full Stack	Pantech e Learning Private Limited, Chennai.
42	05-08-2022	Dr S D Sathishkumar	Basics of Intellectual Property Rights	IPR Cell & Institution's Innovation Council (IIC), Sacred Heart College (Autonomous), Tirupattur, Tirupattur District,
43	24-09-2022 to 30-09-2022	Dr S D Sathishkumar	Advance Tools and Techniques for Research Methodology	Sage University – Indore
44	14-10-2022 to 20-10-2022	Dr S D Sathishkumar	Dimensions of Wellness (Change Your Habits, Change Your Life)	Research Foundation of India & RFI - CARE
45	16-08-2022 to 20-08-2022	Dr S D Sathishkumar	21st Century Skills for Teaching & Learning (CSTL – 2022)	GMR Institute of Technology, Rajam, AP.
46	22-08-2022 to 27-08-2022	Dr S D Sathishkumar	Amazon Web Services	GMR Institute of Technology, Rajam, AP.
47	18-07-2022 to 22-07-2022	Dr S D Sathishkumar	Trends in CNC Machining and Metrology	National Institute of Technical Teachers Training and Research (NITTTR), Chennai.
48	24-06-2022 to 29-06-2022	Dr S D Sathishkumar	Multidisciplinary Applications of MATLAB in Engineering	P.R. Pote College of Engineering & Management, Amaravati, AP.
49	07-10-2022	Dr A Nandakumar	Plastics in the environment: Impacts and Management	Kumari Mangrove Foundation, Kanyakumari.
50	08-10-2022	Dr A Nandakumar	Step-by-Step Guidelines to Intellectual Property Rights	Rathinam College of Arts and Science, Coimbatore.

Faculty development program / Symposium/ Seminars/ Workshops/ Webinars attended by the faculty members

S No	Date	Faculty Name	Program title of the following: FDP / Symposium / Seminars / Workshops / Webinars	Institute organised, Venue
51	15-09-2022	Dr A Nandakumar	Entrepreneurship and StartUp for Beginners	Bharat-Ratna Indira Gandhi College of Engineering, Kegaon, Solapur
52	20-10-2022 to 21-10-2022	Dr A Nandakumar	Recent trends in data analysis	Rathinam College of Arts and Science, Coimbatore.
53	26-12-2022 to 30-12-2022	Dr P Chengareddy	Innovations in Mechanical Engineering	Vasireddy Venkatadri Institute of Technology, Guntur.
54	28-07-2022 to 29-07-2022	Dr R Ellappan	Deployment of low carbon energy supply technologies for sustainable development	Hindustan college of engineering and technology Coimbatore.
55	07-11-2022 to 11-11-2022	Dr R Ellappan	Thermal Science and Materials Engineering	Srinivasa Ramanujan Institute of Technology, Ananthapuramu.
56	07-11-2022 to 11-11-2022	Dr R Balakumar	Thermal Science and Materials Engineering	Srinivasa Ramanujan Institute of Technology, Ananthapuramu.
57	07-11-2022 to 11-11-2022	Dr D Vijayan	Thermal Science and Materials Engineering	Srinivasa Ramanujan Institute of Technology, Ananthapuramu.
58	06-03-2022 to 10-03-2022	Dr D Vijayan	Applications of Artificial Intelligence & Machine learning in Mechanical Engineering	SR Gudlavalleru Engineering College, Kakinada.
59	06-03-2022 to 10-03-2022	Dr A Tamilarasan	Applications of Artificial Intelligence & Machine learning in Mechanical Engineering	SR Gudlavalleru Engineering College, Kakinada.
60	06-03-2022 to 10-03-2022	Dr S Vijayabhaskar	Applications of Artificial Intelligence & Machine learning in Mechanical Engineering	SR Gudlavalleru Engineering College, Kakinada.

Articles presented by the faculty members in conference, symposium, seminars

S No	Event Date	Faculty Name	Article Title	Program title of the following: FDP / Symposium / Seminars / Workshops / Webinars	Institute organised, Venue
1	27-04-2022	Dr A Nandakumar	Experimental Investigation of Sustainable Grinding Performance of Nano SIC Reinforced Al Matrix composites using MQL	Trends and Innovations in Mechanical Engineering (TIME 5.0-2022)	Dr. M.G.R Education and Research Institute, Chennai.
2	22-04-2022 to 23-04-2022	Dr A Arunpremnath	Effect of rice husk filler on hardness & Impact of basalt fibre epoxy polymer composite		R.G.M College of Engineering & Technology, Nandyal, AP.
3	07-03-2022	Dr D Vijayan	Delamination Studies and effect of machining parameters on delamination PC-GFRP and Aramid-GFRP Composites	International Conference on Processing and Characterization of Materials (ICPCM 2022)	Sri Sivasubramaniya Nadar College of Engineering, Chennai.
4	27-04-2022	Dr R Vinayagamoorthy	Friction and wear studies on Senegalia Catechu resin based green composites	Trends and Innovations in Mechanical Engineering (TIME 5.0-2022)	Dr. M.G.R Education and Research Institute, Chennai.
5	27-04-2022	Dr P Vithya	Tribological Characteristics of Rapeseed oil Based Pentaerythritol Ester as Biodegradable Refrigeration oil for Sustainable Solutions	Trends and Innovations in Mechanical Engineering (TIME 5.0-2022)	Dr. M.G.R Education and Research Institute, Chennai.
6	27-04-2022	Dr P Vithya	Application of CuO Nanoparticles as Biodegradable Lubricant Additive for Domestic Refrigerator Compressors—An Tribological Investigation	Trends and Innovations in Mechanical Engineering (TIME 5.0-2022)	Dr. M.G.R Education and Research Institute, Chennai.
7	27-04-2022	Dr R Balakumar	Study on Tribological Characteristics of Wao Biodiesel Using HFRR Tribometer	Trends and Innovations in Mechanical Engineering (TIME 5.0-2022)	Dr. M.G.R Education and Research Institute, Chennai.
8	27-04-2022	Dr R Balakumar	Tribological Analysis of Wao Biodiesel Using Four Ball Wear Tribometer	Trends and Innovations in Mechanical Engineering (TIME 5.0-2022)	Dr. M.G.R Education and Research Institute, Chennai.
9	27-04-2022	Dr R Ellappan	Corrosion Studies On I.C Engine Components Under Biolubricant Biodiesel Combination	Trends and Innovations in Mechanical Engineering (TIME 5.0-2022)	Dr. M.G.R Education and Research Institute, Chennai.

Articles presented by the faculty members in conference, symposium, seminars

S No	Event Date	Faculty Name	Article Title	Program title of the following: FDP / Symposium / Seminars / Workshops / Webinars	Institute organised, Venue
10	27-04-2022	Dr R Ellappan	Fabrication of natural fibre reinforced composite material for mudguard	Trends and Innovations in Mechanical Engineering (TIME 5.0-2022)	Dr. M.G.R Education and Research Institute, Chennai.
11	29-09-2022 to 30-09-2022	Dr S D Sathishkumar	Experimental Investigation of Fiber Orientation in Glass Fiber Reinforced Thermoplastic Composites	Modern Materials for Engineering and Research (ICMMER 2022)	Department of Mechanical Engineering, Sengunthar Engineering College, Tiruchengode, Tamil Nadu,
12	16-12-2022 to 17-12-2022	Dr G Venkata koteswara Rao	Friction and wear behaviour of amygdalus-based green composites	International Conference on Sustainable Technologies and Advances in Automation, Aerospace and Robotics (STAAR'22)	Vellore Institute of Technology (VIT), Bhopal.
13	05-11-2022 to 07-11-2022	Dr R Balakumar	Synthesis and optimizing the process parameters of biodiesel from waste ayurvedic oil	Trends and Innovations in Mechanical Engineering (TIME 5.0-2022)	Vellore Institute of Technology (VIT), Vellore.

Consultancy Services

The following are consultancy assignments carried out at the department, mainly utilising the existing facilities, knowledge, or expertise of the consultant. The following are the special facilities of the department:

1. Stir Casting
2. Compression Moulding Machine
3. Inverted Metallurgical Microscope
4. USB microscope camera with polariser
5. Pin on Disc Tribometer
6. Four ball wear tester
7. 3D Printing setup

Journals, Conference proceedings, Books, Book chapters, Magazines, Article in page published by the faculty members

S No	Faculty Name	Article Title	Name of the Journal, Book, Conference Proceedings / Publisher Name	Volume, Issue, Year, Page no	Indexed by (Web of science/ Science Citation index / Scopus/Google scholar)	Impact Factor
1	Dr T Rajmohan, Dr K Mohan, Dr S Vijayabhaskar	Tribological characterization of hybrid natural fiber MWCNT filled polymer composites	Bio-Fiber Reinforced Composite Materials: Mechanical, Thermal and Tribological Properties, Springer.	1, 339-359, 2022		
2	Dr T Rajmohan	Bio-fibre Reinforced Composites: Mechanical, Thermal and Tribological Properties and Industrial Applications—An Introduction	Bio-Fiber Reinforced Composite Materials: Mechanical, Thermal and Tribological Properties, Springer.	1, 3-12, 2022		
3	Dr T Rajmohan, Dr D Vijayan, Dr K Mohan, Dr S Vijayabhaskar	Dynamic Mechanical Analysis (DMA) of Natural Fibre Reinforced Polymer Matrix Composites (NFRPMC)-Review	Bio-Fiber Reinforced Composite Materials: Mechanical, Thermal and Tribological Properties, Springer.	1, 310-318, 2022		
4	Dr A Nandakumar, Dr T Rajmohan, Dr S Vijayabhaskar, Dr D Vijayan	Sustainable Grinding Performances of Nano-Sic Reinforced Al Matrix Composites under MQL: An Integrated Box-Behnken Design Coupled with Artificial Bee Colony (ABC) Algorithm	Sustainable Chemistry, MDPI.	3(4), 482-510, 2022	Scopus	
5	Dr R Vinayagamoorthy	Bio-fibre Reinforced Polymeric Composites for Industrial, Medicine and Domestic Applications	Bio-Fiber Reinforced Composite Materials: Mechanical, Thermal and Tribological Properties, Springer.	1, 31-49, 2022		
6	Dr A Tamilarasan, Dr D Vijayan	Parametric estimation for AWJ cutting of Ti-6Al-4V alloy using Rat swarm optimization algorithm	Materials and Manufacturing Processes, Taylor and Francis.	1(1), 1-11, 2022	Science Citation Index Expanded	4.783 (2021)
7	Dr A Tamilarasan	AWJC of NiTi interleaved r-GO embedded carbon/aramid fibre intermetallic laminates: Experimental investigations and optimization through BMOA	Materials and Manufacturing Processes, Taylor and Francis.	1(1), 1-16, 2022	Science Citation Index Expanded	4.783 (2021)

Journals, Conference proceedings, Books, Book chapters, Magazines, Article in page published by the faculty members

S No	Faculty Name	Article Title	Name of the Journal, Book, Conference Proceedings / Publisher Name	Volume, Issue, Year, Page no	Indexed by (Web of science/ Science Citation index / Scopus/Google scholar)	Impact Factor
9	Dr A Tamilarasan	RSM - Improved salp swarm algorithm for quality characteristics in AWJM of ananas comosus-HIPS composites	International Journal of Lightweight Materials and Manufacture	6(3). 297-310, 2023	Scopus	
10	Dr A Tamilarasan	Optimisation via BBD-isoa approach while machining NFRP composite	Materials and Manufacturing Processes	1, 1-14, 2023	Science Citation Index Expanded	4.783 (2021)
11	Dr A Tamilarasan	Hybrid SCCSA: An efficient multilevel thresholding for enhanced image segmentation	Multimedia Tools and Applications	1, 1-43, 2023	Science Citation Index Expanded	2.577 (2021)
12	Dr D Vijayan	Delamination studies and effects of machining parameters on delamination of PC-GFRP and aramid-GFRP composites	Materials Today: Proceedings	72, 2199-2205 2023	Scopus	
13	Dr D Vijayan	Influence of Fiber Content on Tensile and Flexural Properties of Ramie/Areca Fiber Composite—An Algorithmic Approach Using Firefly Algorithm	Bio-Fiber Reinforced Composite Materials: Mechanical, Thermal and Tribological Properties, Springer.	3(4), 482-510, 2022	Scopus	
14	Dr R Vinayagamoorthy	Bio-fibre Reinforced Polymeric Composites for Industrial, Medicine and Domestic Applications	Bio-Fiber Reinforced Composite Materials: Mechanical, Thermal and Tribological Properties, Springer.	1, 31-49, 2022	Scopus	
15	Dr S D Sathish Kumar	Experimental Study of Fiber Orientation on the Mechanical Properties of Glass Fiber Reinforced Thermoplastic Composites	Material science Forum, Trans Tech Publications Limited.	1082, 74-83, 2023	Scopus	
16	Dr S Vijayabhaskar	Preparation, Mechanical Properties and Thermal Analysis of Basalt Fiber Reinforced with Polypropylene (BFRPP) Composites	Bio-Fiber Reinforced Composite Materials: Mechanical, Thermal and Tribological Properties, Springer.	1, 31-49, 2022	Scopus	

Awards / Rewards received by the faculty members





Dr S Arumugam, Associate Professor, Department of Mechanical Engineering received a "Best Presentation Award" for his research paper entitled, "Design and Fabrication of rotatable welding table" on an international conference on advanced functional materials at KL University, Guntur, India on 01.03.2022.







Dr S Arumugam, Associate Professor, Department of Mechanical Engineering received a "Best Presentation Award" for his research paper entitled, "Design and Fabrication of rotatable welding table" on an international conference on advanced functional materials at KL University, Guntur, India on 01.03.2022.







Placements

S No	Student Name	Name of the company placed	Designation	Salary/ annum
1	 Kummiti Gangadhar Naidu (11189D042)	Hyundai Mobis Ltd, Chennai.	Graduate Engineer Trainee	3.6 Lacs
2	 Dharmapuri Markandeya Sharma (11199D009)	JM Frictec Ltd, Chennai.	Graduate Engineer Trainee	2.4 Lacs
3	 P G Naveen (11199D024)	Shibaura Machines Ltd., Chennai.	Graduate Engineer Trainee	4.25 Lacs
4	 Y V Sudheer Reddy (11199D033)	NVH India Auto Parts Private Ltd, Chennai	Graduate Engineer Trainee	2.4 Lacs
		Motherson Automotive Technologies & Engg. Ltd., Chennai	Operation Engineer Trainee	1.68 Lacs


Placements

S No	Student Name	Name of the company placed	Designation	Salary/ annum
5	 G R Sai Bharadwaj (11199Do11)	NVH India Auto Parts Private Ltd, Chennai	Graduate Engineer Trainee	1.68 Lacs
		Motherson Automotive Technologies & Engg. Ltd., Chennai	Operation Engineer Trainee	2.4 Lacs
6	 K Ganesh Ram (11199Do10)	Motherson Automotive Technologies & Engg. Ltd., Chennai	Operation Engineer Trainee	2.4 Lacs
7	 M Raman (11199Do27)	Motherson Automotive Technologies & Engg. Ltd., Chennai	Operation Engineer Trainee	2.4 Lacs
8	 B Muthu Navin Maatesh (11199Do23)	Motherson Automotive Technologies & Engg. Ltd., Chennai	Operation Engineer Trainee	2.4 Lacs

Placements

S No	Student Name	Name of the company placed	Designation	Salary/ annum
9	 V. V. R. Phani Madhav (11199D032)	Motherson Automotive Technologies & Engg. Ltd., Chennai	Operation Engineer Trainee	2.4 Lacs
10	 M. Trivikram Sairaj (11199D022)	Motherson Automotive Technologies & Engg. Ltd., Chennai	Operation Engineer Trainee	2.4 Lacs
11	 G. N. S. Jagadeesh (11199D013)	Motherson Automotive Technologies & Engg. Ltd., Chennai	Operation Engineer Trainee	2.4 Lacs
12	 P. Rudra Narayana Murthy (11199D023)	Motherson Automotive Technologies & Engg. Ltd., Chennai	Operation Engineer Trainee	2.4 Lacs

Internships

S No	Student Name	Name of the company	Internship duration	On / Off Campus
1	 Dharmapuri Markandeya Sharma (11199D009)	Mithra Auto Agencies, Khammam	1 month	Off Campus
2	 P G Naveen (11199D024)	Same Deutz Fahr (India) Ltd, Chennai	11 days	Off Campus
3	 Arvind Kannan (11199D002)	Kirby Building Systems & Structures India Pvt Ltd., Madhapur, Telangana.	22 days	Off Campus
4	 Palakodeti Balaprasad (11199D003)	Integrated Cleanroom Technologies Pvt Ltd., Hyderabad, Telangana.	15 days	Off Campus

Jagadguru Vacanam



ஐகத்குரு வசனம்

தார்மீகமான கலாச்சாரம் நம்முடைய நாட்டை காப்பாற்றி கொண்டு வருகிறது. விஞ்ஞானத்தின் மூலமாக, நவீனத்தின் மூலமாக, பல்வேறு வளர்ச்சிகள் வந்தாலும், மனிதன் மனிதனாக வாழ்வதற்கு, மனிதன் சிறந்த பக்தனாக வாழ்வதற்கு வேண்டிய மனத்திலே ஒரு பக்குவம், மனத்திலே ஒரு நிதானம், மனத்திலே ஒரு பொறுப்பு, 'அன்பே ஸிவம்' என்கிற அந்த அன்பை - 'அன்பும், அறனும் உடைத்தாயின்', என்று கல்யாணப் பத்திரிக்கையிலே எழுதுகிறார்கள்; அந்த அன்பும், அறமும் சேர்ந்த ஒரு வாழ்க்கை அமைவதற்கு, மாணவர் ஸமுதாயம் என்பது தேச பக்தியுடனும், தெய்வ பக்தியுடனும் வளர வேண்டும்.

Jagadguru Vacanam

DHÄRMIC CULTURE IS PROTECTING OUR COUNTRY.

Even though there are various scientific and modern advancements, for a human being to live as a good human being, a pious devotee, possessing a manas with maturity, calmness, and responsibility, to live a life of 'Anbe Śivam' - (Compassion is God, kindness is Lord Śivā Himself) - they write 'Anbum Aranum Udaithāyin' (If love and virtue in the household reign) on wedding invitations; TO LIVE THAT LIFE OF LOVE AND VIRTUE, THE STUDENT COMMUNITY SHOULD GROW UP WITH DEŚA BHAKTI AND DAIVA BHAKTI.

ŚrīŚāṅkarī
May 13, 2023

Editorial Committee

Dr T Rajmohan, HOD, Department of Mechanical Engineering, SCSVMV.

Dr D Vijayan, Assistant Professor, Department of Mechanical Engineering, SCSVMV.

Dr R Ellappan, Assistant Professor, Department of Mechanical Engineering, SCSVMV.

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