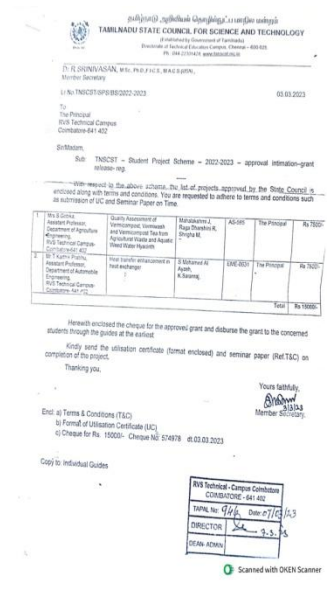
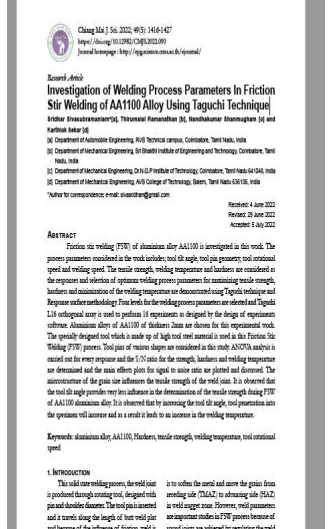

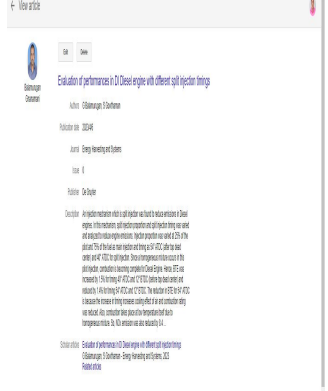



# FACULTY ACHIEVEMENTS

S.No	Faculty Name	Program Name	Certification Status
1	<p>Mr.T.Karthik Prabhu, ME, (PhD) Assistant Professor, Department of Automobile Engineering</p>	<p>TNSCST Project Fund (Enhancement of heat transfer in double pipe heat exchanger)</p>	
2	<p>Dr.S.Sridhar, PhD Professor and Head, Department of Automobile Engineering</p>	<p>Investigation of Welding Process Parameters In Friction Stir Welding of AA1100 Alloy Using Taguchi Technique</p>	

<p>3</p>	<p>Dr.S.Sridhar, PhD Professor and Head, Department of Automobile Engineering</p>	<p>Microstructural analysis and experimental investigation of mechanical properties of epoxy based hybrid composite reinforced with flax, sisal and luffa fibre</p>	 <p>Journal of Composites Processing Research, Vol. 21, No. 4, pp. 468-502 (2022) Received 15 February 2022, Accepted for publication 29 March 2022, Available online 21 March 2022 https://doi.org/10.22159/jccpr.2022.210406</p> <p><b>Microstructural analysis and experimental investigation of mechanical properties of epoxy based hybrid composite reinforced with flax, sisal and luffa fibre</b></p> <p>S. Sridhar<sup>1</sup>, A. Nandhakumar<sup>2</sup>, M. Nishanath<sup>3</sup> and R. Magnummuru<sup>4</sup>  <sup>1</sup>Professor, Department of Automobile Engineering, JSS Institute of Campus, Chikballari-56102, India  <sup>2</sup>Professor, Department of Mechanical Engineering, OMR CPJ Institute of Technology, Chikballari-56102, India  <sup>3</sup>Asst. Professor, Department of Mechanical Engineering, OMR CPJ Institute of Technology, Chikballari-56102, India  <sup>4</sup>Professor, Department of Mechanical Engineering, Rajaraj Institute of Engineering, Chikballari-56102, India</p> <p>The flax fibre provides lots of health benefits during its production and loading. One aim is to replace the glass fibre by natural fibres which are more eco-friendly by using vegetable and natural fibres in weight ratio. The work is the investigation of the hybrid composite by reinforcing it with flax, luffa fibre and sisal fibre. In this work, the natural fibres are treated to remove the impurities and increase the bonding strength and tensile strength. The mechanical and physical properties for the above hybrid composite are investigated.</p> <p><b>Keywords:</b> Flax, Luffa fibre, Sisal fibre, Hybrid Composite, Compressive strength, Tensile strength etc.</p> <p><b>Introduction</b></p> <p>Natural fibres supports for healthy environment. Flax fibre, cotton, sisal and other natural fibres are the sustainable resources and they are renewable and biodegradable. Natural fibres are available, low cost and more easily available. These fibres are available in hybrid and also give high mechanical properties in combination as the reinforcing elements for the composite materials. The most innovative material developed because of the demanding consciousness on the flexibility in the product, eco-friendly design and environmental friendly design are natural [1]. The responsibility between the fragrance, temperature and effect of fibre loading of natural fibre reinforced composite materials and their dynamic mechanical analysis are carried out [2]. The investigation of these applications, which are advanced for the real fibre reinforced composite and its applications are developed [3]. One dimensionless equation are analyzed for the specimens manufactured using the suitable molding techniques [4]. The long fibres produce effective strength and are found to be suitable when they are used as reinforcing elements prepared by compression molding technique [5].</p> <p>The epoxy based composite are analyzed for its mechanical properties and microstructural characteristics by several researchers for several applications and it is observed that there is a huge scope for the investigations of epoxy based composite materials in the future [6]. The morphology and mechanical properties such as thermal resistance are investigated for the study of the effect of the fibre on the reinforcement phase for the composite materials [7]. The strength, fracture toughness, compatibility of the natural fibre composite are analyzed for the selection of best fibres for the natural fibre reinforced composites [8]. The work is carried out on natural fibre reinforcement for fabrication of a epoxy based composite to investigate the tensile, flexural and dynamic mechanical properties [9]. Investigations are carried out for the novel composite material reinforced with flax and sisal for the reinforcement for analyzing its tensile properties [10]. Fibre matrix compatibility is studied for an effect on tensile strength and mechanical properties for a composite material [11]. The optimization of filling parameters on natural fibre reinforced composites using central composite design is carried out [12]. The epoxy based composite are used for the mechanical properties and analyzed using ANOVA and Taguchi analysis [13]. The epoxy based composite materials will provide high tensile, modulus, flexural and impact properties. The various types of fibre reinforced with epoxy based composite materials are discussed. The influence of epoxy resin and filler size on the properties of the mechanical properties of the composite materials is discussed and analyzed [14]. Optimization of the molding process parameters for the composite materials is discussed and analyzed using design of experiments. Grey relational analysis is carried out to determine the optimal process parameters and the mathematical models for the responses are developed and validated [15, 16]. Response surface methodology is employed for identification of the optimal</p>
<p>4</p>	<p>Mr.G.Balamurugan, ME, MBA, (PhD) Assistant Professor, Department of Automobile Engineering</p>	<p>Evaluation of performances in DI Diesel engine with different split injection timings</p>	 <p><b>Evaluation of performances in DI Diesel engine with different split injection timings</b></p> <p>Author: G. Balamurugan    Volume: 2024    Issue: 1    Pages: 1-10</p> <p><b>Abstract:</b> In this paper, the performance of a DI Diesel engine with different split injection timings is studied. The engine is operated at different load conditions and the performance parameters such as Brake Power, Brake Torque, Brake Specific Fuel Consumption, Brake Thermal Efficiency, etc. are measured. The results show that the performance of the engine is improved with the split injection technique. The optimal split injection timing is found to be 10% at 1000 rpm and 15% at 1500 rpm. The results are compared with the conventional injection technique and it is observed that the split injection technique is more efficient than the conventional injection technique.</p>
<p>5</p>	<p>Mr.G.Balamurugan, ME, MBA, (PhD) Assistant Professor, Department of Automobile Engineering</p>	<p>Effect of split injection in DI diesel engine with varying injection proportion</p>	 <p><b>Effect of split injection in DI Diesel engine with varying injection proportion</b></p> <p>Author: G. Balamurugan    Volume: 2024    Issue: 1    Pages: 1-10</p> <p><b>Abstract:</b> In this paper, the effect of split injection on the performance of a DI Diesel engine is studied. The engine is operated at different load conditions and the performance parameters such as Brake Power, Brake Torque, Brake Specific Fuel Consumption, Brake Thermal Efficiency, etc. are measured. The results show that the performance of the engine is improved with the split injection technique. The optimal split injection proportion is found to be 10% at 1000 rpm and 15% at 1500 rpm. The results are compared with the conventional injection technique and it is observed that the split injection technique is more efficient than the conventional injection technique.</p>

**FACULTY DEVELOPMENT PROGRAM 2021 - 2022**


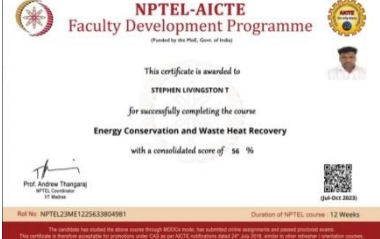
S.No	Faculty Name	Program Name	Certification Status
1	Mr.M.Dhanabalakrishnan, ME, Assistant Professor, Department of Automobile Engineering, RVS Technical Campus – Coimbatore.	Industrial Automation using CNC and Intelligent Systems	
2	Mr.M.Dhanabalakrishnan, ME, Assistant Professor, Department of Automobile Engineering, RVS Technical Campus – Coimbatore.	IIT PALS FDP in Ashok Leyland	
3	Mr.G.Balamurugan, ME, MBA Assistant Professor, Department of Automobile Engineering, RVS Technical Campus – Coimbatore.	Emerging Technological Challenges in Electric Vehicle	
4	Mr.A.Kavin Kumaran, ME, Assistant Professor, Department of Automobile Engineering, RVS Technical Campus – Coimbatore.	3D Printing & Design	
5	Mr.A.Kavin Kumaran, ME, Assistant Professor, Department of Automobile Engineering, RVS Technical Campus – Coimbatore.	Electric Vehicles – Research Issues and Challenges	
6	Mr.T.Rathish Kumar, ME.,(Ph.D) Assistant Professor, Department of Automobile Engineering, RVS Technical Campus – Coimbatore.	Recent Trends in Manufacturing Technology and Thermal Engineering	


**FACULTY DEVELOPMENT PROGRAM 2022 - 2023**

S.No	Faculty Name	Program Name	Certification Status
1	Mr.G.Balamurugan, ME, MBA Assistant Professor, Department of Automobile Engineering, RVS Technical Campus – Coimbatore.	Practical Aspects of ICT Tools & Online Teaching in Current Scenario	
2	Mr.G.Balamurugan, ME, MBA Assistant Professor, Department of Automobile Engineering, RVS Technical Campus – Coimbatore.	Outcome Based Education	
3	Mr.T.Karthik Prabhu, ME.,(Ph.D) Assistant Professor, Department of Automobile Engineering, RVS Technical Campus – Coimbatore.	Integrated Active Teaching-Learning Pedagogy Approaches for Enhancing Focused Outcome Based Engineering Education	
4	Mr.A.Kavin Kumaran, ME, Assistant Professor, Department of Automobile Engineering, RVS Technical Campus – Coimbatore.	Smart Manufacturing	
5	Mr.T.Rathish Kumar, ME.,(Ph.D) Assistant Professor, Department of Automobile Engineering, RVS Technical Campus – Coimbatore.	Augmented Reality, Virtual Reality & Metaverse Development	

7	Mr.A.Kavin Kumaran, ME, Assistant Professor, Department of Automobile Engineering, RVS Technical Campus – Coimbatore.	Alternate Fuels	
9	Mr.A.Kavin Kumaran, ME, Assistant Professor, Department of Automobile Engineering, RVS Technical Campus – Coimbatore.	Additive Manufacturing	
10	Mr.A.Kavin Kumaran, ME, Assistant Professor, Department of Automobile Engineering, RVS Technical Campus – Coimbatore.	Integrated Active Teaching-Learning Pedagogy Approaches for Enhancing Focused Outcome Based Engineering Education	


### FACULTY DEVELOPMENT PROGRAM 2023 - 2024

S.No	Faculty Name	Program Name	Certification Status
1	Mr.T.Rathish Kumar, ME.,(Ph.D) Assistant Professor, Department of Automobile Engineering, RVS Technical Campus – Coimbatore.	Train the Trainer program on Digital Productivity and AI Fluency under the Faculty Development Programme	
2	Mr.T.Stephen Livingston, ME.,(Ph.D) Assistant Professor, Department of Automobile Engineering, RVS Technical Campus – Coimbatore.	Energy Conservation and Waste Heat Recovery	

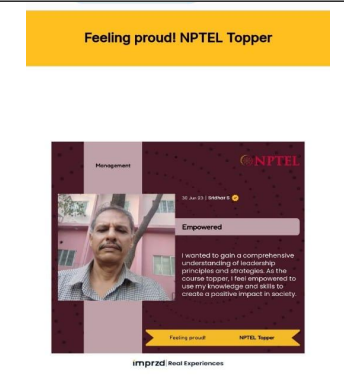
3	Mr.T.Stephen Livingston, ME Assistant Professor, Department of Automobile Engineering, RVS Technical Campus – Coimbatore.	Entrepreneurship development for faculty in energy conservation domains of engineering and technology	
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### August – September 2022


S.No	Faculty Name	Course Name	Certification Status
1	Mr.M.Dhanabalakrishnan, ME, Assistant Professor	Product Design and Development	

### March – April 2023

S.No	Faculty Name	Course Name	Certification Status
1	Dr.S.Sridhar, PhD, Professor & Head	Total Quality Management	

			 <p><b>NPTEL Online Certification</b>      This certificate is awarded to  <b>SRIDHAR S</b>      for successfully completing the course  <b>Total Quality Management - I</b>      with a consolidated score of <b>72 %</b>      Online Assignments   25/25   Proctorial Exam   46.5/75      Total number of candidates certified in this course: 385      Feb-Apr 2023 (8 week course)      Indian Institute of Technology Kharagpur</p>
2	Dr.S.Sridhar, PhD, Professor & Head	Inspection and Quality Control in Manufacturing	 <p><b>NPTEL Online Certification</b>      This certificate is awarded to  <b>SRIDHAR S</b>      for successfully completing the course  <b>Inspection and Quality Control in Manufacturing</b>      with a consolidated score of <b>75 %</b>      Online Assignments   25/25   Proctorial Exam   49.5/75      Total number of candidates certified in this course: 719      Jan-Feb 2023 (4 week course)      Indian Institute of Technology Bombay</p>
3	Mr.M.Dhanabalakrishnan, ME, Assistant Professor	Fundamentals of Welding Science and Technology	 <p><b>NPTEL Online Certification</b>      This certificate is awarded to  <b>M DHANABALAKRISHNAN</b>      for successfully completing the course  <b>Fundamentals of Welding Science and Technology</b>      with a consolidated score of <b>57 %</b>      Online Assignments   21.25/25   Proctorial Exam   35.25/75      Total number of candidates certified in this course: 720      Jan-Mar 2023 (8 week course)      Indian Institute of Technology Guwahati</p>
4	Mr.G.Balamurugan, ME, MBA, Assistant Professor	Fundamentals of Automotive Systems	 <p><b>NPTEL Online Certification</b>      This certificate is awarded to  <b>BALAMURUGAN</b>      for successfully completing the course  <b>Fundamentals of Automotive Systems</b>      with a consolidated score of <b>46 %</b>      Online Assignments   15.9/25   Proctorial Exam   30/75      Total number of candidates certified in this course: 1088      Jan-Apr 2023 (12 week course)      Indian Institute of Technology Madras</p>

## July - October 2023

S.No	Faculty Name	Course Name	Certification Status
1	Mr. T. Stephen Livingston, ME, Assistant Professor	Energy Conservation and Waste Heat Recovery	 <p>The certificate is awarded to <b>STEPHEN LIVINGSTON T</b> for successfully completing the course <b>Energy Conservation and Waste Heat Recovery</b> with a consolidated score of <b>56 %</b>.  <b>Online Assignments   18.8625   Proctored Exam   36.9375</b>                      Total number of candidates certified in this course: 206                      Jul-Oct 2023 (12 week course)                      Indian Institute of Technology Kharagpur                      Prof. Rajanath Kumar, Director, NPTEL                      swayam</p>

### STUDENT PARTICIPATION ACTIVITIES

S.No	Name of the Student	Event	Venue	Prize
1	Christin Joe Reji	Startup India Learning Program	Invest India, New Delhi	 <p>#startupidia upGrad  <b>Invest India</b>                      National Investment Promotion Agency                      hereby confers upon  <b>Christin Joe Reji</b>                      the certificate of completion for the #startupidia Learning program                      75976331                      June 20, 2023</p>
2	Christin Joe Reji	IEDC Summit 2023	IEDC Summit, Calicut	 <p><b>IEDC SUMMIT 2023</b>                      Unleashing Opportunities, Uniting Perspectives  <b>CERTIFICATE OF PARTICIPATION</b>                      THIS CERTIFICATE IS PRESENTED TO  <i>Christin Joe Reji</i>                      In Recognition of his/Her/Its Contribution to the Success of IEDC Summit 2023</p>
3	Christin Joe Reji	National Entrepreneurship Conclave 2023	Lead College of Management, Palakkad	 <p><b>LEAD</b> <b>KIED</b> <b>K-DISC</b>  <b>CERTIFICATE</b>                      This is to Certify that Mr./Ms./Mx. <b>Christin Joe Reji</b>                      has participated in National Entrepreneurship Conclave 2023 held at LEAD College of Management, Chollal                      Palakkad on 8<sup>th</sup>, 9<sup>th</sup> &amp; 10<sup>th</sup> March 2023</p>



4	Christin Joe Reji	Agile HR	National Institute of Personnel Management, Palakkad	
5	M.Vimal Kumar	Workshop on Electric and Hybrid Vehicle with IC Engine Dismantling & Assembling	IIT Madras Research Park	
6	Kribesh	Workshop on Electric and Hybrid Vehicle with IC Engine Dismantling & Assembling	IIT Madras Research Park	
7	Arunesh	Workshop on Electric and Hybrid Vehicle with IC Engine Dismantling & Assembling	IIT Madras Research Park	
8	Ajay Akilendra	Workshop on Electric and Hybrid Vehicle with IC Engine Dismantling & Assembling	IIT Madras Research Park	

9	Ramprasath	Workshop on Electric and Hybrid Vehicle with IC Engine Dismantling & Assembling	IIT Madras Research Park	
10	M.Vimal Kumar	Automotive Proto Kindling Workshop	NIT Trichy	
11	Kribesh	Automotive Proto Kindling Workshop	NIT Trichy	
12	Arunesh	Automotive Proto Kindling Workshop	NIT Trichy	
13	Ajay Akilendra	Automotive Proto Kindling Workshop	NIT Trichy	
14	Ramprasath	Automotive Proto Kindling	NIT Trichy	

		Workshop		
15	Selvabalan	Logical Rivera	Kalaingar Karunanidhi Institute of Technology, Coimbatore	
16	Girithari Prasad	Parchakra 2023 (National Symposium)	RVS College of Engineering and Technology, Coimbatore	
17	Girithari Prasad	Parchakra 2023 (National Conference)	RVS College of Engineering and Technology, Coimbatore	
18	Girithari Prasad	Mechtronz - 2023	PPG Institute of Technology, Coimbatore	

## WEBINARS

 <p><b>RVS TECHNICAL CAMPUS-COIMBATORE</b> Kumarankottam Campus, Kannampalayam, Coimbatore - 641 402 Accredited by NAAC/Approved by AICTE New Delhi &amp; Affiliated to Anna University Chennai</p> <p><b>DEPARTMENT OF AUTOMOBILE ENGINEERING</b> ORGANIZES WEBINAR ON <b>ALTERNATE MATERIALS FOR AUTOMOBILES</b></p> <p>Date : 30.08.2022 Time : 3.00 p.m.</p> <p>Online Mode via Google Meet <a href="https://meet.google.com/xqe-qnuf-pxt">https://meet.google.com/xqe-qnuf-pxt</a></p> <p><b>RESOURCE PERSON</b></p> <p><b>Dr. S. Prabhakaran</b> Assistant Professor (Sr.Gr) Department of Robotics and Automation Engineering PSG College of Technology- CBE</p> <p><b>CHIEF PATRON</b> Vijayashree Dr.K.V.Kuppusamy Chairman</p> <p><b>CONVENER</b> Dr.S.Sridhar HOD/AUTO</p> <p><b>PATRONS</b> Dr.B.K.Bhadri Advisor to Hon'ble Chairman Dr.S.Vijayan Principal</p> <p><b>FACULTY CO-ORDINATORS</b> M.Dhanabalakrishnan, AP/AUTO A.KavinKumaran, AP/AUTO T.Rathish kumar, AP/AUTO</p>	<h3><b>ALTERNATE MATERIALS FOR AUTOMOBILES</b></h3> <p>Webinar on 30.08.2022 at 3.00PM</p> <p><b>Speaker :</b> Dr.S.Prabhakaran</p> <p>Assistant Professor Senior Grade 1 Department of Robotics and Automation Engineering PSG College of Technology Coimbatore.</p> <p><b>No of Students Participated : 52</b></p>
 <p><b>RVS TECHNICAL CAMPUS - COIMBATORE</b> Kumarankottam campus, Kannampalayam, Coimbatore - 641 402</p> <p><b>DEPARTMENT OF AUTOMOBILE ENGINEERING</b></p> <p><b>A WEBINAR ON</b> <b>Application of CFD in Automobile Industries</b> ON <b>05/10/2021</b> at 11.45 am to 12.45 pm,</p> <p><b>OUR GUEST</b></p> <p><b>Mr. A. Ramakrishnan</b> Assistant Professor BIT - Sathyamangalam</p> <p><b>Patrons</b> Dr. K. V. Kuppusamy Chairman Dr. S. Vijayan Principal Dr. S. Sridhar Hod/Automobile</p> <p><b>Platform: Google-Meet</b> Meeting link: <a href="https://meet.google.com/pay-kfen-egc">meet.google.com/pay-kfen-egc</a></p> <p><b>Co-ordinators</b> Mr. A. Kavin kumar, AP/Auto Mr. T. Rathish kumar, AP/Auto Mr. M. Dhanabalakrishnan, AP/Auto</p> <p><b>Scan &amp; Join</b></p> <p>QR Code</p>	<h3><b>APPLICATION OF CFD IN AUTOMOBILE INDUSTRIES</b></h3> <p>Webinar on 05.10.2021 from 11.45 a.m. to 12.45 p.m.</p> <p><b>Speaker :</b> Mr.A.Ramakrishnan</p> <p>Assistant Professor, Department of Mechatronics Engineering, Bannari Amman Institute of Technology, Coimbatore.</p> <p><b>No of Students Participated : 44</b></p>

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KUMARANKOTAM CAMPUS, KANNAMPALAYAM, COIMBATORE - 64102

**INSTITUTION'S INNOVATION COUNCIL**

**Department of Automobile Engineering**  
ORGANIZES  
**Virtual Webinar On**  
**Introduction Of Heating**  
**Ventilation and Air-conditioning**

Meeting At

Date : 06 October 2023  
Time : 11:00PM - 12:00PM

**MR.R.GOPINATHAN**  
Project Engineer  
Carawan Electrical & Mechanical Works  
Dubai, UAE

ALL PARTICIPANTS WILL  
GET E-CERTIFICATE  
MEETING LINK

For More Details Contact  
Mr.Rathish Kumar  
Assistant Professor  
Automobile Engineering  
Ph : +91 94960 19735

## INTRODUCTION OF HEATING VENTILATION AND AIR-CONDITIONING

Webinar on 06.10.2023 from 11.00 a.m. to  
12.00 p.m.

**Speaker :** Mr.R. Gopinathan  
Project Engineer,  
Carawan Electriucal & Mechanical  
Works,  
Dubai, UAE

**No of Students Participated :** 55

**RVS TECHNICAL CAMPUS - COIMBATORE**  
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KUMARANKOTAM CAMPUS, KANNAMPALAYAM, COIMBATORE - 64102

**INSTITUTION'S INNOVATION COUNCIL**

**DEPARTMENT OF AUTOMOBILE ENGINEERING**  
Organizes  
**VIRTUAL WEBINAR ON**  
**Role Of Hydrogen In**  
**Future Automotives**

Date : 15 September 2023  
Time : 11.00AM - 12.00PM

**MR.P.DINESHKUMAR PONNAIYAN**  
SENIOR RESEARCH FELLOW (HYDROGEN FUEL CELL)  
PSG COLLEGE OF TECHNOLOGY

FREE REGISTRATION

For More Details Contact  
Mr.T.Karthikprabhu  
Assistant Professor  
Automobile Engineering  
PH - +91 85260 36266

All Participants Will  
Get E-Certificate

MEETING LINK

## ROLE OF HYDROGEN IN FUTURE AUTOMOTIVES

Webinar on 15.09.2023 from 11.00 a.m. to  
12.00 p.m.

**Speaker :** Mr.P. Dineshkumar Ponnaiyan  
Senior Research Fellow,  
Fuel Cell technology,  
PSG College of Technology,  
Coimbatore

**No of Students Participated :** 60

## DEPARTMENT FUNCTIONS



*Hands on Training on Assembling and Dismantling of Automobile Vehicle*



*Students visited Auto Expo at Codissia Trade Centre to grasp the latest Automotive Technologies available in the Market*





*MoU Signing Ceremony with M/s Hashtag Automation, Coimbatore on 25.08.2023*



*Srivaru Motors Visit on 31.08.2023*





*SGA Motors – Test Drive conducted on 10.10.2023*