

# OP Jindal University, Raigarh

## SAE Collegiate Club activities under SAEINDIA

**Duration- April 2021 to May 2022**

Sr Faculty Advisor- Dr Surendra Dwiwedi, Associate Professor, Mechanical

Faculty Advisor- Dr L R Bhandarkar, Associate Professor, Mechanical

Chairman- Dr. Siddharth S Chakrabarti, Prof & Head- Mechanical

SR. NO.	DATE	NAME OF EVENTS	CONTENT
01	10.06.2021		<p>Department of Mechanical Engineering, OP Jindal University, Raigarh in association with Institutional Innovation Council (IIC) and SAEINDIA inaugurated the OPJU-SAE collegiate Club through online mode on 10th June 2021. The inaugural session was bolstered by the presence of Mr. K Venkatraj, Deputy Director-General SAE-INDIA, Dr. Arun Sampath, Chief Engineer &amp; Head Innovation &amp; Global Technology Centre, Mahindra Electric Mobility Limited, Bengaluru, Dr. Vivek Kaundal, Specialist – Technical Education Global Engineering Academy, L&amp;T Technology Services Limited, Mysore and Mr. Bhavesh Kumar, Director-Dassault System, Chennai. Under the Aegis of SAEINDIA (Society of Automotive Engineers, INDIA), Collegiate club provides practical exposure</p>

			<p>to a professional engineering society as well as focal point for campus engineering programs and projects. SAEINDIA Collegiate clubs offer student members, organize programs and activities, fellowship, and leadership experience. SAEINDIA student members are also entitled to many of the services available to SAEINDIA's regular members. Presently, a total of 125 students have obtained the club membership. The inauguration was followed by a talk on "Role of Simulation in Electromobility Innovation" by Mr. Bhavesh Kumar. The sessions were attended by 100+ participants and SAE Collegiate Club members.</p>
02			<p>Certificate of SAE Collegiate Club</p>
			<p>University team Solaric has successfully cleared all the evaluation rounds of India's largest SAE India Efficycle 2020 Season 11 Competition (<a href="https://www.effi.saenis.org/">https://www.effi.saenis.org/</a>). The rounds included a number of different documents related to the</p>



# EFFI-CYCLE 2020

>>> DRIVE THE FUTURE<<<  
E-MOBILITY SEASON



## CERTIFICATE OF PARTICIPATION

This is to certify that Team SOLARIC (Team ID 20099) from  
OP JINDAL UNIVERSITY, RAIGARH, CHHATTISGARH  
has successfully participated in SAE Northern India Section EFFI-CYCLE 2020 hosted virtually  
from 17<sup>th</sup> to 27<sup>th</sup> September, 2020.

Shri Deepak Panda  
Convener, Efficycle-2020



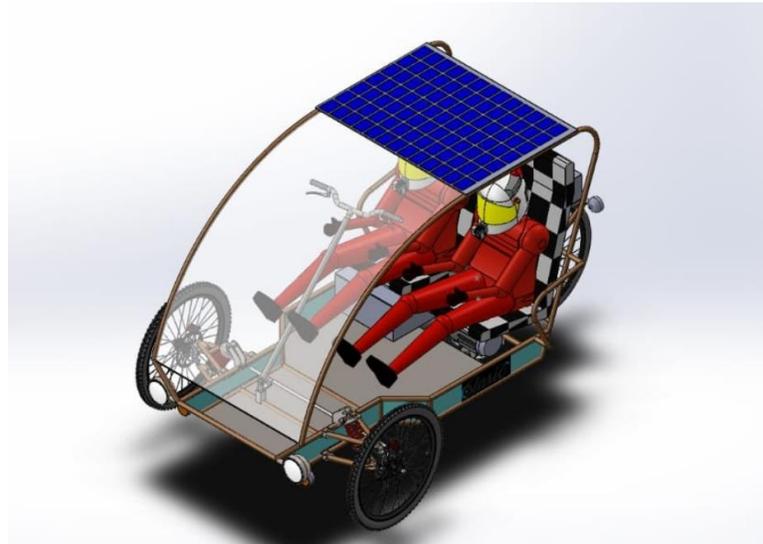
Shri Dinesh Tyagi  
Chairman, SAE-NIS

SUPPORTED BY



Certificate No: EFFI2020/V/1046

Date of Issue: 4-Oct-2020



Vehicle design, Project plan containing the details of all the steps completed in the manufacturing of the vehicle. The team has achieved the participation certificate.

3

02.6.20  
21

Hotter color=HIGHER PRESSURE & VISE-VERSA

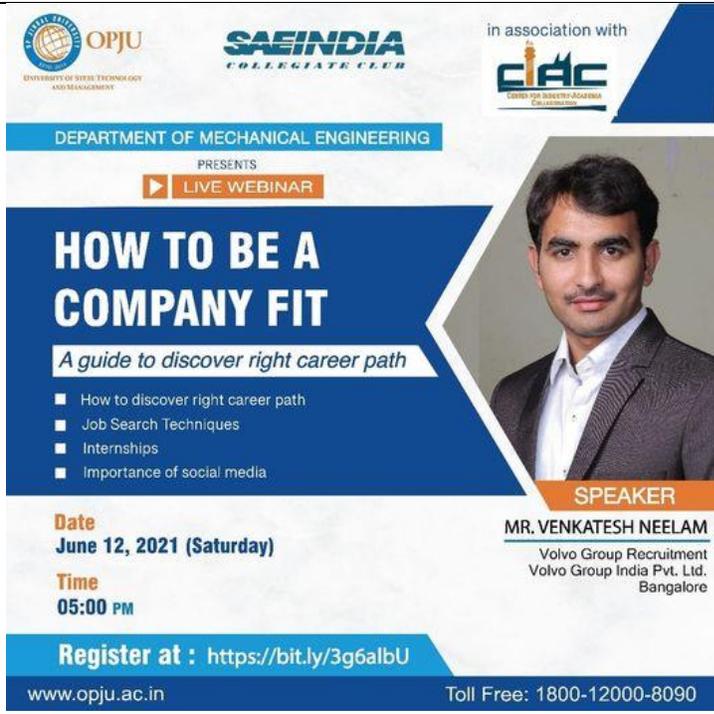
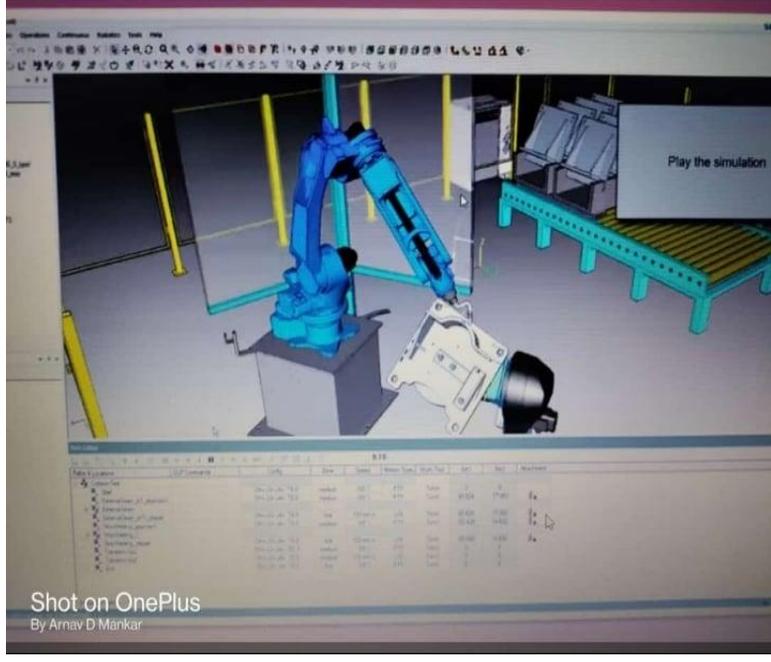
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	Squareback	Fastback	Notchback
$C_d$	0.334	0.311	0.312
$C_l$	-0.022	0.106	-0.095
$C_M$	-0.082	0.007	0.011
$C_r$	0.010	0.099	0.084

Click to add notes

A GYANESH KUMAR RAO's screen

SAE Collegiate Club initiated a project to develop Formula one racing car. Also conducted a session on “Formula one Aerodynamics”..... ,carried out by SAE Collegiate Club, conducted by Club member Mr Gyanesh Rao, M.Tech student- Mechanical.

<p>4</p> <p>12.6.20 21</p>	 <p>DEPARTMENT OF MECHANICAL ENGINEERING PRESENTS LIVE WEBINAR</p> <h1>HOW TO BE A COMPANY FIT</h1> <p><i>A guide to discover right career path</i></p> <ul style="list-style-type: none"> <li>How to discover right career path</li> <li>Job Search Techniques</li> <li>Internships</li> <li>Importance of social media</li> </ul> <p><b>Date</b> June 12, 2021 (Saturday)</p> <p><b>Time</b> 05:00 PM</p> <p><b>Register at :</b> <a href="https://bit.ly/3g6albU">https://bit.ly/3g6albU</a></p> <p><a href="http://www.opju.ac.in">www.opju.ac.in</a> Toll Free: 1800-12000-8090</p> <p><b>SPEAKER</b> <b>MR. VENKATESH NEELAM</b> Volvo Group Recruitment Volvo Group India Pvt. Ltd. Bangalore</p>	<p>The SAE OPJU Collegiate club in association with the Centre for Industry-Academia Collaboration on "How to be a Company Fit – A guide to discover the right career path" on 12th June 2021. The session was delivered by Mr. Venkatesh Neelam, Volvo Group Recruitment, Volvo Group India Private Limited, where he gave an insight to "How to discover the right career path? and how to attract potential employers?" He said information is at your fingertips but how you leverage and use it, decides the success you achieve in your life. The session was attended by 90+ participants..</p>
<p>5</p>	 <p>Shot on OnePlus By Arnav D. Mankar</p>	<p>An exploratory and wonderful session on "Digital Manufacturing" by Mr Krishna Prasad, Digital Manufacturing expert, Siemens Centre of Excellence, NIT Kurukshetra for Mechanical Engineering students was conducted on 10/08/2021. The speaker discussed about the new learning opportunities in the field of manufacturing by using Technomatix Plant simulation software. The session was attended by 80+ participants and organised by SAE Collegiate Club in association with Department of Mechanical Engineering.</p>

		
6		<p>Team Vidyut-OPJU in association with SAE-OPJU Collegiate Club and the Department of Mechanical Engineering organized a talk on 'Role of Artificial Intelligence &amp; Machine Learning projects for placements' on 20th June 2021. The speaker of the session was OPJU alumni Mr. Raj Kapish Gupta, Assistant System Engineer, Tata Consultancy Services. The overall session focused on 'Role of Artificial Intelligence and Machine Learning' in inter-discipline areas and especially on Automotive Technology. The session was attended by 100+ participants from different departments of the School of Engineering.</p>
7		<p>Department of Mechanical Engineering in association with SAE-OPJU Collegiate Club, organised a session on "Design of Mechanical Systems Using CFD" on 11th July 2021. Dr. Satish Kumar, Associate Professor, Department of Mechanical Engineering, NIT Jamshedpur stressed the fact that CFD is becoming nowadays an important design and research tool in the field of mechanical engineering to</p>

			<p>test and improve the design of different mechanical systems. The session was attended by 80+ participants comprising of students and industry personnel</p>
8		 <p>OP JINDAL UNIVERSITY RAIGARH, Chhattisgarh, India  OP JINDAL UNIVERSITY RAIGARH O P Jindal Industrial Park,  Chhattisgarh 496107, India  Lat 22.059832°  Long 83.349161°  18/05/22 11:32 AM</p>	<p>Department of Mechanical Engineering, in association with Institutional Innovation Council and SAE Collegiate Club, has organized a five-day training Program on "ANSYS-Hands on Workshop" from 4th to 10th May 2022. The students got an exposure to the new technology and capabilities of the software that can be utilized to support their innovations in Engineering and perform the simulations.</p>
9	5.6.2021	 <p><b>SAEINDIA</b> BENGALURU SECTION</p> <p><b>SAEINDIA</b> Society of Automotive Engineers India</p> <p><b>AUTONOMOUS VEHICLES – SOTA, FUTURE &amp; OPPORTUNITY</b></p> <p><b>MR. HARSHRAJ RAO</b>  SR. ENGINEERING MANAGER, AUTOMOTIVE SYSTEM SOFTWARE, NVIDIA</p> <p><b>MR. UNNIKRISHNAN A R,</b>  HEAD DEVELOPER ECO SYSTEM, DLI &amp; CSP BUSINESS, NVIDIA</p> <p><b>05 JUNE 2021 @ 4.00 TO 6.00 P.M</b></p> <p><b>Free registration</b></p> <p>Program Coordinator – MC, SAEIBS / Mr. Ashoka Kumar  Contact SAEINDIA - Mr. Ilangoan : 8870471511 / Email : ilangois@saeindia.org</p>	<p>The Duo Guest speaker of NVIDIA Group, Mr Harshraj Rao and Mr Unnikrishnan provided an exposure to our students on Autonomous Vehicles and its future scope through an online webinar. The webinar was conducted under the SAEINDIA – OPJU Collegiate Club.</p>

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**OP JINDAL UNIVERSITY, RAIGARH**  
Raigarh, Chhattisgarh -496109

**CONGRATULATIONS**  
Office Bearers of SAE Collegiate Club of OPJU

**DR. S K DWIVEDI**  
Senior Faculty Advisor

**PROF. L R BHANDARKAR**  
Additional Faculty Advisor

**ARNAV DINESH MANKAR**  
Student Chairperson

**ASHISH GAUTAM**  
Student Vice-Chairperson

**BINDESHWAR DASH**  
Student Secretary

**SHIVAM SHARMA**  
Additional Student Secretary

**YASHARTH MISHRA**  
Student Publicity Chair

**AYUSH KUMAR PANDEY**  
Student Publicity Vice-Chair

**CHIRAG MISHRA**  
Student Membership Chair

**ALOK KUMAR**  
Student Membership Vice-Chair

**AMIT KUMAR SAINI**  
Student Treasurer

**MANISH PATEL**  
Student Program Chair

**AKSHAT PANDEY**  
Student Reception Chair

www.opju.ac.in Toll Free :1800-12000-8090

Department of Mechanical Engineering and SAEINDIA-OPJU COLlegaite Club together congratulates the the Mechanical Engineering students on their selection for a leadership position as Office Bearers of the club.

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20.06.2021

**OP JINDAL UNIVERSITY, RAIGARH**  
Department of Mechanical Engineering  
is organizing

**A NATIONAL LEVEL ONLINE QUIZ ON AUTOMOTIVE TECHNOLOGY**

Online Certification Quiz Competition

Win Exciting Prizes

<b>DATE</b>	<b>TIME</b>	<b>WHO CAN PARTICIPATE?</b>
June 20, 2021	5:00 PM	Any student pursuing class 11th / 12th studying Maths, Physics and Chemistry and Class 10 <sup>th</sup>

1st Prize : 1500 ₹  
2nd Prize : 1000 ₹  
5 Consolation Prizes Of 500 ₹ each

Register at: <https://bit.ly/3oWGRQN>

Note: Participation certificate will be sent within 24 hours in participant's registered email id.

www.opju.ac.in For queries contact : 9109977022

Department of Mechanical Engineering and SAEINDIA-OPJU COLlegaite Club together conducted a national level Quiz on Automotive Technology as an outreach program for the Engineering aspirants.

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25.04.2021

**OP JINDAL UNIVERSITY, RAIGARH**  
Department of Mechanical Engineering  
Organizing

**NATIONAL LEVEL QUIZ COMPETITION ON GREEN TECHNOLOGY**

**Date : 25<sup>th</sup> April 2021**  
**Time : 9:30 AM - 11:00 PM**

**WHO CAN PARTICIPATE? :**  
Any student pursuing class 11th and 12th studying Maths, Physics and Chemistry

**Win Exciting Prizes**

**1st Prize : 2000 ₹**  
**2nd Prize : 1000 ₹**  
**4 Consolation Prizes Worth 500 ₹**

**Registration is Free**

**Note: Participation certificate will be sent within 24 hours in participant's registered email id.**

**Register at the link given in the description**      **For queries contact : 9109977048**

Department of Mechanical Engineering and SAEINDIA-OPJU COLlegaite Club together conducted a a national level Quiz on Green Technology as an Green Energy awareness Program.

<p>13</p> <p>31.07.2021</p>	 <p><b>Present Status of Automotive Sector</b></p> <ul style="list-style-type: none"> <li>• The Indian automobile industry is the fourth largest in the world.</li> <li>• Annual turnover of \$100 billion</li> <li>• Employs 32 million people</li> <li>• The two-wheeler industry in India is the largest in the world.</li> <li>• India is also the largest tractor manufacturer</li> <li>• The eight largest commercial vehicles manufacturer in the world.</li> <li>• The automobile sector currently contributes about 50 per cent of the manufacturing gross domestic product (GDP) in India</li> <li>• 26 per cent of the industry GDP and 7.1 per cent of overall GDP</li> <li>• The sector contributes approximately 13 per cent of excise revenue to the government.</li> </ul> <p><b>SAE OPJU COLLEGIATE CLUB</b> Presents <b>LIVE WEBINAR</b></p> <p><b>E-Mobility in India</b> Outcomes of the webinar The E-Mobility session will provide industrial skills and knowledge in the form of concept &amp; practical learning through Skill Awareness Program on E-Mobility.</p> <p><b>31 JULY 2021 (Saturday)</b> <b>11 A.M.</b></p> <p><b>MR. ASH HAR AHMED</b> Co-founder &amp; Director Skill Development &amp; Entrepreneurship</p> <p>www.opju.ac.in Toll free: 1800-12000-8090 www.linkedin.com/company/team-vidyut</p>	<p>Department of Mechanical Engineering in association with SAE-OPJU Collegiate Club, Team VIDYUT, and Skill Shark organized a session on “E-MOBILITY IN INDIA-Future of Sustainable Transportation” on 31st July 2021. The session was delivered by Mr. Ashhar Ahmed, Co-founder, and Director, Skill Development &amp; Entrepreneurship. The speaker discussed the automotive industry, the electric vehicle ecosystem, and different aspects of designing, manufacturing, simulation, electronics of electric vehicles. The talk was attended by 100+ participants and they gathered a crisp knowledge on E-Mobility.</p>
<p>14</p>	 <p><b>OP JINDAL UNIVERSITY</b> Department of Mechanical Engineering And Department of Civil Engineering Organizing</p> <p>Online certificate course on Basics of <b>AUTODESK AUTOCAD</b></p> <p><b>OBJECTIVES OF THE COURSE</b></p> <ul style="list-style-type: none"> <li>• To provide knowledge of Basics of Computer Aided Design using AUTOCAD Software</li> <li>• To provide Hands on Practice on AUTOCAD</li> <li>• To draw/ draft 2-D sketches of technical drawing, plan of a site and to easily share the ideas.</li> <li>• To introduce 3D drawing/ drafting in AUTOCAD</li> </ul> <p><b>Last Date of Registration:</b> July 7, 2021 <b>Date of Commencement:</b> July 12, 2021 <b>Course Fee:</b> Rs. 200/-</p> <p><b>For Registration Contact:</b> Mr. Gopal Krishna Gouda Mob: 9109977017 Mail: gopal.gouda@opju.ac.in Ms. Leena Behara Mob: 9425411293 Mail: leena.behara@opju.ac.in</p> <p><b>Mr. Laxman Nath Barik</b> Mob: 9109977028 Mail: lbark@opju.ac.in</p> <p><b>Course Coordinator –</b> Mr. Vinod Kumar Nagpure, Asst. Professor Mr. L. R. Bhandarkar, Asst. Professor</p> <p><b>Who can attend the course?</b> 5th and 6th Semester Diploma Civil and Mechanical Engineering students who want to lead their career in Design Engineering.</p>	<p>The Department of Mechanical Engineering in association with the Department of Civil Engineering and SAE OPJU Collegiate Club organised a one week online certificate course on “Basics of AUTOCAD” for the 5th and 6th semester students of Diploma Engineering from 12th-17th July 2021.</p>

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09.10.2021

in association with  
Department of Mechanical Engineering

October 9, 2021 (Saturday)  
3:00 PM

## Future trends in EV Technologies

By

**Mr. Brahmanand Reddy Patil**  
Vice President & Head-Central R&D  
CREAT UNO MINDA Enterprise  
Pune

Register at [bit.ly/3orzqCK](https://bit.ly/3orzqCK) to join the webinar

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**CREAT – Central R&D Overview**

- Flagship Technology Center of UNO MINDA Group
- Located in Pune
- 180+ Engineers
- Center of Competency for Electronics Hardware & Embedded Software
- Product Engineering – Ideation to Series Production
- DSIR recognized Electronics Lab

**ELECTRIFICATION**   **IN-VEHICLE EXPERIENCE**   **CONNECTIVITY**   **CONVENIENCE & SAFETY**

**Hardware, Software & Testing**

- Connectivity, Electrification, Cockpit and Body Electronics
- Qi, EMI/EMC, HiL Validation facilities

**Center Of Excellence**

- Material Sciences, Surface Coating
- Signal & Power Integrity, High speed simulation

An interesting session on "Future trends in EV technologies" by Mr Brahmanand Reddy Patil, Vice President & Head-Central R&D, CREAT UNO MINDA Enterprise Pune, India held on 9th October, 2021.

Link:

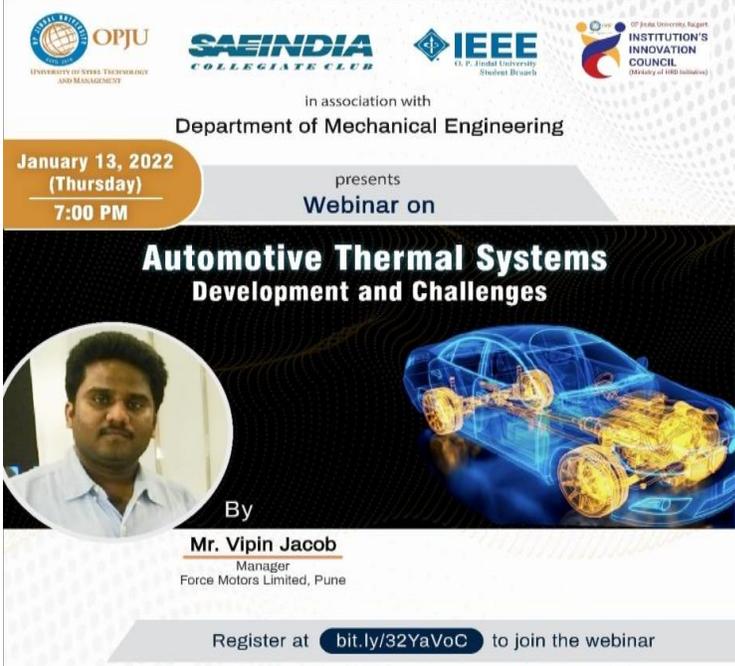
<https://www.facebook.com/photo/?fbid=1473866272977842&set=pcb.1473866766311126>

16

20.11.2021



Students proved the concept of Experiential learning-“learning by doing” and the journey started with Team "Solaric" representing the OP Jindal University in Electric Solar Vehicle Championship- 2019 & 2020  
Now the "VIDYUT" TEAM has carried the torch ahead and has started their work for the fabrication of Formula Car and will be representing upcoming national events shortly... We wish all the success for the team members...

<p>17</p> <p>13.01.2022</p>	 <p>SAEINDIA COLLEGIATE CLUB</p> <p>IEEE</p> <p>OPJU</p> <p>INSTITUTION'S INNOVATION COUNCIL</p> <p>in association with Department of Mechanical Engineering</p> <p>January 13, 2022 (Thursday) 7:00 PM</p> <p>presents Webinar on</p> <p><b>Automotive Thermal Systems Development and Challenges</b></p> <p>By <b>Mr. Vipin Jacob</b> Manager Force Motors Limited, Pune</p> <p>Register at <a href="https://bit.ly/32YaVoC">bit.ly/32YaVoC</a> to join the webinar</p>	<p>SAEINDIA-OPJU Collegiate Club in association with Institutional Innovation council (IIC@OPJU) organized a session on "Automotive Thermal System- Development and Challenges". Mr Vipin Jacob of Force Motors, Pune delivered on HVAC utilized in Automobiles.</p>
<p>18</p>	 <p>OP JINDAL UNIVERSITY PRESENTS TEAM VIDYUT</p> <p>Yasharth Mishra Captain</p> <p>Aditya Shekhar Vice-Captain</p> <p>Abhinav Sharma Manager</p> <p>Ayush Pandey Manager</p> <p>Vedika Agrawal Head-R&amp;I</p> <p>Chinmay Tiwari Head-Mechanical</p> <p>Vaibhav Tiwari Head-Mechanical</p> <p>Arnav Mankar Head-Designing</p> <p>Adit Dubey Head-T&amp;I</p> <p>Priyanshu Patel Head-T&amp;I</p> <p>Ashish Sharma Head-Electrical</p> <p>V. Ujjwala Head-Electrical</p> <p>Rashmi Kumari Head-Electrical</p> <p>Praveen Sahu Head-Logistic</p> <p>Banty Mahant Head-Logistic</p> <p>Chirag Mishra Head-Marketing</p>	<p>Team VIDYUT – An Student led group working on Development of Formula 1 Racing car to compete at national level competition organized by SAE SUPRA. The team is working for the fabrication and also attended the workshop conducted by SAE Supra</p>



19 04.05.2022

**OP Jindal University, Raigarh**  
 Department of Mechanical engineering & SAEINDIA - OPJU Collegiate Club  
 Presents

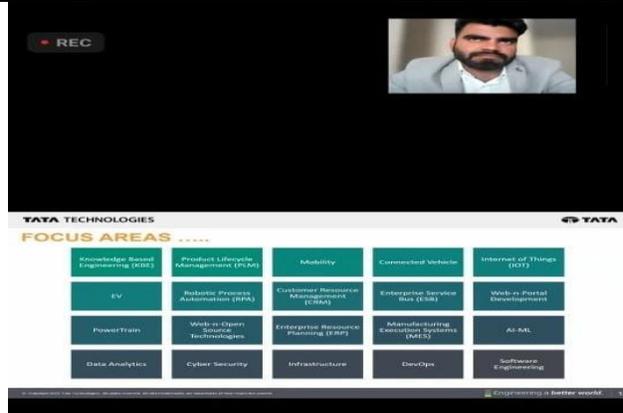
**Recent Trends and Innovations in Automotive Industry**  
 an Online Webinar under IEEE & SAE

**Speaker :**  
 Mr Sushant Kumar,  
 Campus Recruitment Head,  
 TATA Technologies

**04.05.2022**  
**03:00 PM**

**Moderator :**  
 Dr Surendra Dwiwedi  
 Associate Professor  
 Department of Mechanical Engineering  
 School of Engineering

SAEINDIA-OPJU Collegiate Club organized a webinar on "Recent Trends and Innovations in Automotive Industry". Mr Sushant Kumar of TATA Technologies, showcased the utilization of recent ongoing technologies in Automotive sector.



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The Centre of Excellence in Welding Technology (CoEWT) at OPJU in association with the SAE Collegiate Club, HRD Centre and Academic Staff College (ASC), OPJU, and Fronius India Private Limited, Pune jointly organized a Training Programme (Certificate Course) on “Advanced Welding Technology” from 6th to 10th December 2021. The training was attended by industry persons from esteemed organizations such as Jindal Power Limited, Steel structural division, OP Jindal Community College, JSW, and others.

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The Department of Mechanical and Electrical Engineering in association with SAE Club organized an online Expert Talk on "Electric Vehicle and the Way forward" in association with ISIE India on 04th October 2021. Mr Raunak Chaudhary, Senior EV Engineer, ISIE India discussed in detail the basics of Electric vehicles and stressed the fact that a huge opportunity waits ahead for the budding

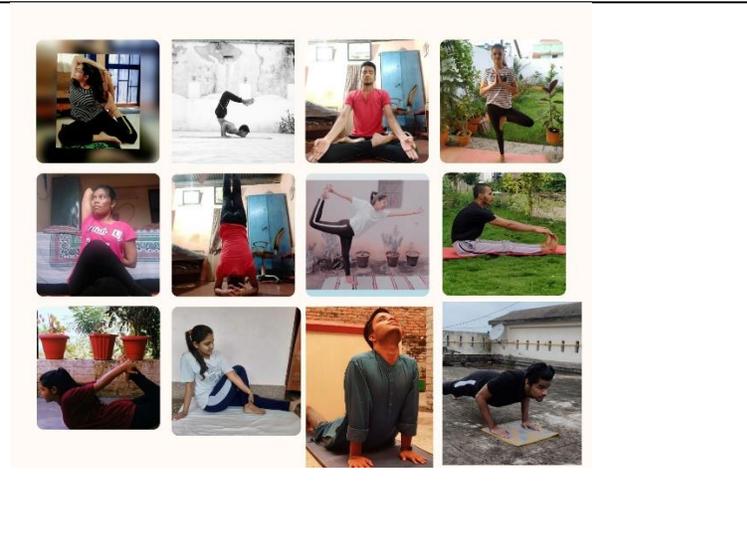
			<p>engineers in the field of electric vehicles. 45 participants attended the session.</p>
22			<p>Department of Mechanical Engineering in association with SAE Club organized an online one-day workshop on the “Design and Development of Robots” under the Workshop series of Technorollix 2K22 on 5th March 2022. The speaker of the workshop Mr Ajay Godara, Mentor of Change (NITI AYOJ G.O.I), Innovator, Founder &amp; CEO @Enovate Skill, Robotics, Automation, IIoT discussed in detail the simulation of robot design using AUTODESK TINKERCAD, Arduino programming, battery management, motor selection, chassis design and others. Around 125+ participants benefited from the workshop.</p>
23		 <p data-bbox="430 1535 609 1711">     Raigarh, Chhattisgarh, India      OP Jindal University, Punjipatra,      Lat 22.062261°      Long 83.349893°      26/10/21 03:12 PM   </p>	<p>The Department of Mechanical Engineering in association with Centre of Industry-Academia Collaboration and SAE Club organized an online Expert Talk on "Need of Digital manufacturing and its Future Prospects" in association with SIEMENS India on 26th October 2021. Mr Rohit Bhatia from Siemens India delivered the session. During the session, he primarily focused on the basics of digital manufacturing, its needs, advantages, the role of digital manufacturing in Industry 4.0, and job opportunities going forward.</p>

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Department of Mechanical Engineering, School of Engineering, O. P. Jindal University, Raigarh organized a 7 Days Online Faculty Development Program on "ANSYS Mechanical and CFD" in association with Entuple Technologies Pvt. Ltd Bangalore from 22nd November 2021 to 29th November 2021 in association with SAE Club. Research scholars from the Department of Mechanical engineering also participated in the training program. The session witnessed a vibrant and dynamic exchange of knowledge and experience during the programme.

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SAE OPJU Collegiate Club celebrated "International Yoga Day" with their members and wished everyone a healthy and peaceful life.

21 JUNE 2021

# International yoga day

