

NEWSLETTER



FROM HOD's DESK

It gives me immense pleasure to lead the department of Automobile Engineering. We proudly present the Newsletter Vol. 12 (Jan 2021-June 2021) of 'Automobile Newsletter'. The department preserves its achievements and publishes its all activities by Automobile Newsletter.

During this pandemic period, the faculty members conducted online lectures. Despite all the difficulties faced, they conducted all the lectures and tests required to secure the academics of our students. We are actively involved in knowledge enhancement of students through project-based learning and organising online technical events. The faculty members are encouraged to publish research papers in reputed journals, participate in Faculty Development Program and workshop through a well-supported system. The prime motive of the newsletter is to highlight the achievements of students and faculty in academics and to highlight departmental events.

I hope that this newsletter will serve the purpose of reflecting all activities of department and it will inspire others to do their best.

Editorial Board:

Prof. QUAZI T. Z. & Prof. SONI JAISWAL

Vision of College

To Become Centre of Excellence in Engineering Education & Research.

Mission of College

To Educate Students to Become Quality Technocrats for taking up Challenges in all Facets of life.

Vision of Department

To foster research based technical skills to satisfy the needs of society.

Mission of Department

To develop highly competent technical manpower.

I. Programme Educational Objectives (PEO):

- To create excellent Automobile Engineers with core competency in mathematics, science and engineering enabling development of problem-solving skills.
- To strengthen themselves professionally and personally to accept responsibilities and pursue higher education in engineering and other professional fields.
- To use modern tools and techniques necessary for mechanical engineering and allied disciplines leading to research and development.
- To inculcate the students to work effectively in cross-functional teams and cultivate the principles of professional ethics and social responsibilities.
- To develop the students adaptable to change in environment and application of appropriate methodology for value addition to support economic growth.

II. Programme Outcome (PO):

At the end of the program, students will be able to....

- Apply knowledge of Mathematics, Science and fundamental of Automobile Engineering.

- Design and conduct experiments, as well as to analyse and interpret the data.
- Use of techniques, skills and modern engineering tools necessary for engineering practice.
- Identify, formulate and solve engineering problems
- Commitment to professional, social and ethical responsibility to function effectively as a team leader in engineering practices.
- Inculcate self-discipline, self-confidence and to make the students internally driven to set personal goals.
- Engage in life –long learning in order to maintain sustainable development even during the crisis.
- Solve the contemporary issues with broad understanding of the impact of engineering and technology on society
- Understand environmental and contemporary issues.
- Possess the skills to communicate effectively with a wide range of both engineering and non-engineering community.
- Apply knowledge of management principles to handle projects in multidisciplinary environment and work as a team and as an individual effectively.

III. Programme (PSO)

- Identify, Understand, Formulate, and analyse complex engineering problems in Automobile, design, thermal and manufacturing.
- Plan and execute efficient, sustainable, safe and cost-effective manufacturing of automobile components in ICE, AS, CBE through CAD/CAM/CAE tools ethica

DEPARTMENT EVENTS

Workshops on Augmented Reality

20th March, 2021



SARASWATI College of Engineering
Learn, Live, Achieve and Contribute

ONE DAY WORKSHOP ON AUGMENTED REALITY

AN INDUSTRY 4.0 INITIATIVE

GUEST
DR. RAJESH BUKTAR
PROFESSOR, SPCE, MUMBAI

DATE : 20TH MARCH 2021

ORGANISED BY
DEPARTMENT OF AUTOMOBILE ENGINEERING

Workshop on Digital Twin

21th March, 2021



SARASWATI College of Engineering
Learn, Live, Achieve and Contribute

ONE DAY WORKSHOP ON DIGITAL TWIN

AN INDUSTRY 4.0 INITIATIVE

GUEST
DR. RAJESH BUKTAR
PROFESSOR, SPCE, MUMBAI

DATE : 21ST MARCH 2021

ORGANISED BY
DEPARTMENT OF AUTOMOBILE ENGINEERING

Think Tank 2021

27th March, 2021



District 3142 Rotaract Club of Saraswati College Rotary Club of New Mumbai

CHAIRPERSONS :
Rtr. Pranav More
7506176162
Rtr. Prashik Tantarpare
8769028229

Venue : Zoom
27th March 2021
5pm Onwards

Next Think Tank

@rcsaraswati

Webinars by Alumni Series

13th Feb – 6th April, 2021



SARASWATI College of Engineering
Learn, Live, Achieve and Contribute

R.A.C.E. Committee of Automobile Department, SCOE
Bringing you the series of
WEBINARS BY ALUMNI

A series of webinars conducted by the seniors of our department, students who truly justifies our college motto
LEARN, LIVE, ACHIEVE AND CONTRIBUTE

Starting with our first webinar of this series

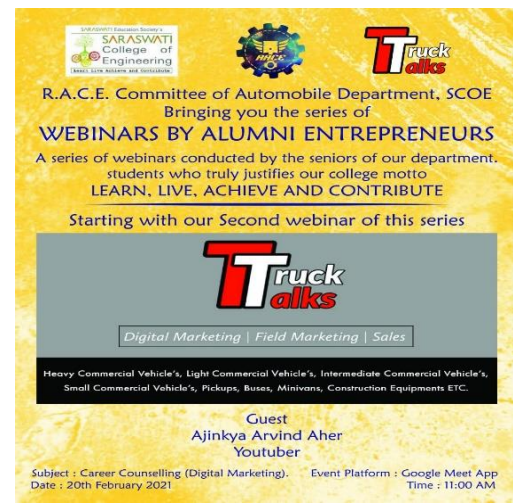
Let's take a small step to Reduce Air Pollution by doing De-Carbonising your vehicle

What is Decarbonising???

In simple terms, decarbonising an engine involves the removal of bad carbon deposits from the engine, which leads to an increase in ENGINE LIFE & PERFORMANCE and save upto 20000/- a year on FUEL EXPENSES & MAINTENANCE

Guest
Mr. Mohish Choudhary
Co-Founder, D' Carbonising Center

Subject : A New Startup. Event Platform : Google Meet App
Date : 13th February 2021 Time : 11:00 AM



SARASWATI College of Engineering
Learn, Live, Achieve and Contribute

R.A.C.E. Committee of Automobile Department, SCOE
Bringing you the series of
WEBINARS BY ALUMNI ENTREPRENEURS

A series of webinars conducted by the seniors of our department, students who truly justifies our college motto
LEARN, LIVE, ACHIEVE AND CONTRIBUTE

Starting with our Second webinar of this series

Digital Marketing | Field Marketing | Sales

Heavy Commercial Vehicle's, Light Commercial Vehicle's, Intermediate Commercial Vehicle's, Small Commercial Vehicle's, Pickups, Buses, Minivans, Construction Equipments ETC.

Guest
Ajinkya Arvind Aher
Youtuber

Subject : Career Counselling (Digital Marketing). Event Platform : Google Meet App
Date : 20th February 2021 Time : 11:00 AM



SARASWATI College of Engineering
Learn, Live, Achieve and Contribute

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Starting with our Fourth webinar of this series

Opportunities in Automobile Industry

Guest

Neelam Ravindra Nalawade
Assistant Manager, Mahindra & Mahindra
Kandivli East, Mumbai


Subject : opportunities in Automobile Industry. Event Platform : Google Meet App
Date : 6th March 2021 Time : 11:00 AM

SARASWATI Education Society's
SARASWATI College of Engineering
 Kharghar, Navi Mumbai - 410 210
 NAAC Accredited

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Starting with our Sixth webinar of this series
**Higher Education from Abroad Scope and Opportunities
 for Automobile Engineers**



Guest
 Ayappan Mani Devendar
 Pursuing Master of Sciences in Mechatronics
 from University of Siegen, Germany.

ONLY FOR TE & BE STUDENTS.
 Event Platform : Google Meet App
 Date : 6th April 2021. Time : 1:30 PM

MUMBAI FALCONS RACING LIMITED

Indian eRacing Championship
PRO

@oshankothadiya
@prathamesh.yedre
@sidmehdiratta



Prathamesh Yedre **Oshan Kothadiya** **Siddharth Mehdiratta**

TOP-3

#GAMERCONNECT

@mumbaifalcons @volkswagen_motorsport_india @volkswagen_india indikarting @rayoracing @redbullindia @iracingofficial @gamerconnect.in

STUDENT ACHIEVEMENTS

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Automobile Department

Hearty Congratulation

FOR GETTING 3RD PRIZE AT NATIONAL LEVEL PROJECT COMPETITION,
 ORGANIZED BY PILLAI COLLEGE OF ENGINEERING



Siddhesh Adavade **Kirankumar Chittapur** **Nikhil Shirsath** **Abhishek Jamnare**

1st

INDO - SRI LANKA VIRTUAL KATA CHAMPIONSHIP 2021

organised by
JAPAN KARATE-DO TENSHINKAN -SRI LANKA BRANCH

On occasion of
COMMONWEALTH DAY

CERTIFICATE
 This is to certify that

Prathamesh T. Shirodkar
 has participated in the "1st INDO-SRI LANKA VIRTUAL KATA CHAMPIONSHIP 2021" held on 24th May 2021. He/She participated as a contestant in 18 YEARS & ABOVE (OPEN POOL A) event and was awarded 1st place.

SHIHAN W.M. MANOJ UNANTENNA
 Chairman
 Tournament Organizing Committee
 7th DAN Black Belt- JAPAN
 7th DAN Black Belt- SLKF
 7th DAN Black Belt- WKF

SHIHAN PRAZ SHAIKH
 CO-ORDINATOR (INDIA)
 Black Belt - World Karate Federation (WKF)
 Black Belt 5th Dan - Karate Association of India (K.A.I.) -India
 Black Belt 5th Dan - International Indo Ryu Karate-Do Federation - India

SENSEI S. P. CHANDRAMOHAN
 Asst. Co-Ordinator
 Tournament Organizing Committee

Certificate Number: ISVKC/2115/307

Affiliated to-
 TENSHINKAN KARATE-DO FEDERATION - JAPAN
 SRI LANK KARATE-DO FEDERATION- SLKF
 (National Body-under Ministry of Sports)
 (World Karate Federation- WKF) (Asian Karate Federation- AKF)

SARASWATI Education Society's
SARASWATI College of Engineering
 Kharghar, Navi Mumbai - 410 210.
NAAC Accredited

CONGRATULATIONS !!!



PRADHYUMAN KOKANE
 SGPI: 8.25

**"Warmest Congratulations on your Achievement.
 We wish you all the best for your future."**

www.sce.edu.in

PLACEMENT (2020-2021)

1. **Mayur Narayan Kashid** (Batch 2020-21) placed in company **Qspiders Incubation Center**.
2. **Gaurav Sonawane** (Batch 2019-20) placed in company **Infosys Limited**.

FACULTY ACHIEVEMENTS

1. The “Patent” on “FUEL BURNER” has filed on the name of Prof. P D Ingle, T Z QUAZI, AMIT VASANTRAO PATIL, SIDDHESH LAD & VISHNUDAS CHODANKR in Nov. 2020.
2. The “Patent” on “Pothole Repairing Machine Using Waste Plastic in Mixes” has published on the name of Prof. AMIT VASANTRAO PATIL, T Z QUAZI, P D INGLE, SIDDHESH LAD & VISHNUDAS CHODANKAR in Nov. 2020.
3. Prof. VISHNUDAS ALIAS VIPUL CHODANKAR has published a paper on “Enhanced Effectiveness with positive Joule-Thomson pressure drop effects on a Cryogenic Heat Exchanger with Three Fluid - Two Communications” in International Journal of Numerical Methods for Heat and Fluid Flow, in July 2021.

2. A Research on Design and Optimization of a Cooling Plate for Battery of an Electric Vehicle
3. Anti-Dive and Anti-Squat Suspension Geometry
4. Modeling of an electric tractor powertrain using MATLAB/Simulink
5. Research On Design, Static and Dynamic Analysis of FSAE Chassis
6. Design and analysis of double wishbone suspension for formula student car
7. Design and analysis of steering system
8. OPTIMIZATION OF CELL OF HONEYCOMB SPOKES FOR NON-PNEUMATIC TIRE
9. Study of drag around the nosecone of FSAE Vehicle using CFD Analysis
10. Thermal Analysis of FSAE Brake Disc
11. Thermostat Valve Thermal Comfort Analysis Using F.E. A
12. A Study of Cross Wind Effect on Bike's Aerodynamic
13. Thermal Analysis of Piston
14. A Review on Static and Dynamic Analysis Of Automotive Clutch For Material Optimization
15. Electric Vehicle Development
16. Fabrication Of KTM 390 Wiring Harness According To FSAE Vehicle

INTERNATIONAL CONFERENCE ON INDUSTRY 4.0

- **Advances in Engineering and Sustainability
for the ‘Make in India’ initiative**

7 th May 2021

Paper Published

- | |
|---|
| 1. A Research on Flow Analysis Inside A Tractor Cabin Selecting Vent Location And Glazing |
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