



# Dr. Sudhir Chandra Sur Degree Engineering College

540, DumDum Road, Surer Math (Near Dum Dum Jn. Station), Kolkata-700074

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Affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal, WBSCTVESD and Approved by AICTE



**JIS GROUP**  
Educational Initiatives



## NEWSLETTER

**AUTOMOBILE ENGINEERING DEPARTMENT, DSCSDEC**  
**SPECIAL EDITION: COVID 19 LOCKDOWN**

**MAY 2020**

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## PRINCIPAL'S MESSAGE



The key to **Happiness** is not that you never get **Angry, Upset, Frustrated, Irritated** or **Depressed**. It's **how fast** you decide to **get out** of it.

I am glad to convey my best wishes and message through this news letter during this crisis period when everyone are fighting hard to combat with COVID 19, to all faculties, staff and students of Department of Automobile Engineering.

Dear Students, If you are determined to work hard to achieve your goal, nothing in this world can deter you from achieving your goal. However, if at the outset you fail to get your goal, figure out whether something change needed in your set goal as per your potential. Again work with great vigor you will definitely achieve your goal. If you have set your goal, strive hard to achieve it and the success will be yours. Taking excuse for not doing things is very easy, equally easy is finding reasons, ways and means for doing it.

Your enthusiasm, support and cooperation during this crisis period are appreciable. Covid-19 has given us many reasons to look into the other side of the table. Mother Earth, Nature, Plants, Animal and Birds are demanding many things from the Human being. It's right time to understand the need of the day. Education and learning can't be stopped. Love, affection, respect, kindness, desire, positive attitude and optimistic approach can't be locked down.

Try to develop positive mindset and attitude, so that a value based success and goal can be achieved. A quotation for all my budding technocrats:

**"I was always looking outside myself for strength and confidence, but it comes from within. It is there all the time." – Anna Freud**

Till next newsletter all the best!

Dr. Om Prakash Sharma  
Principal, DSCSDEC

## HoD'S MESSAGE



Nic Brown, an unknown man, IT executive by profession, wrote a letter to his saviours i.e. the medical persons, after recovering from COVID 19. "Every day I was there, especially when I was on a ventilator and full life support, the staff would write on the window the goals for me to try and reach each day. They would encourage me. One day from the hospital authorities, someone wrote, 'we will get you home'.

We, the Department of Automobile Engineering, DSCSDEC hereby present you the Newsletter for the COVID 19 Lockdown Period which is an outstanding collaborative work of the students and all Departmental members.

On behalf of all the faculty members and as the mentor of Automobile Engineering Department, I would like to say that, we are here to take care of you and we assure that we will provide the best education possible at all and every conditions. And all together we will win this fight against COVID 19. Remember that this will too pass and we will live with our sheer valor once again, as we were used to. So, stay at home and keep learning.





## About Us: Department of Automobile Engineering



The Department of Automobile Engineering was established in the year 2009 at the very inception of Dr. Sudhir Chandra Sur Degree Engineering College. The department started with a Four years B. Tech course (capacity of 60 students) and later on, Diploma in Automobile Engineering (capacity of 60 students) started in 2014.

The department offers courses to ensure a regular supply of top notch Automobile Engineers who have hands on experience and are well versed with latest Automobile Technology to fill up the demand gap between industry and academia. The department has state of the art laboratory facilities to provide hands on training to the students in the emerging field of specialization. Automobile engineering students get exposure to practically all fields of engineering. Automobile is a branch where all sorts of engineering and technologies are involves e.g. Automobile, Mechanical, Electrical, Electronics, Industrial design. The department has their student chapter under SAE (Society of Automotive Engineers).

### Vision of the Department

To be recognized as a space of excellent education and research in the field of Automobile Engineering generating the dedicated workforce and to help as an important resource for industries, research and society most importantly.

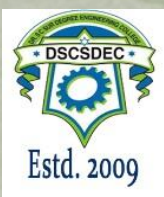
### Mission of the Department

1. To uphold academic growth by developing a space where the students will be engaged in the search of new knowledge and therefore inventive ideas will emerge.
2. To implement a comprehensive approach in designing the curriculum so that the students can be in touch with the advances in engineering thus meeting the industry requirements.
3. To develop coordination with important industries, R&D organization, educational institutions for continuous improvement in teaching, training and research.
4. To provide the students such an environment where leadership and ethical values will be appreciated leading to meaningful contributions to the society

### Courses Offered

Course Name	Total Intake
B.Tech in Automobile Engineering	60
Diploma in Automobile Engineering	60





# Digital Class Details



**Digital Classes Conducted: 379 and counting**

Since the Lockdown Period i.e. 17<sup>th</sup> march, 2020 the Department of Automobile Engineering has taken 379 online classes and still now, the doubt clearing classes are going on. The online platforms used are **Zoom, Google Classroom, My Perfectice, TeamLink, GotoMeeting, LiveBoard and BlueJeans.**

The Technical Assistants have taken all their allocated laboratory classes by modifying the conventional lab manuals into unique digital materials (**Questions, Assignments and providing YouTube Links**).

**Lectures Uploaded in YouTube: 144 till date**

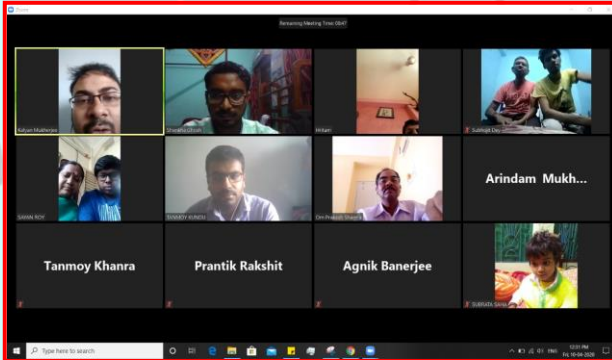
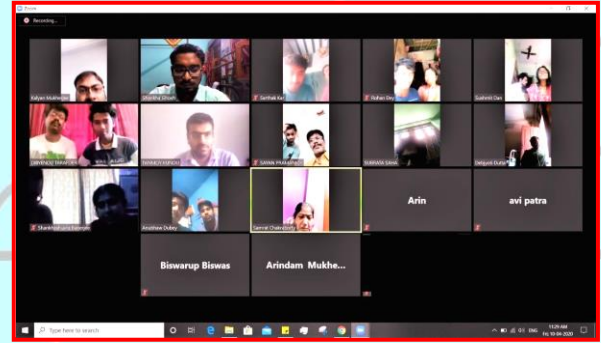
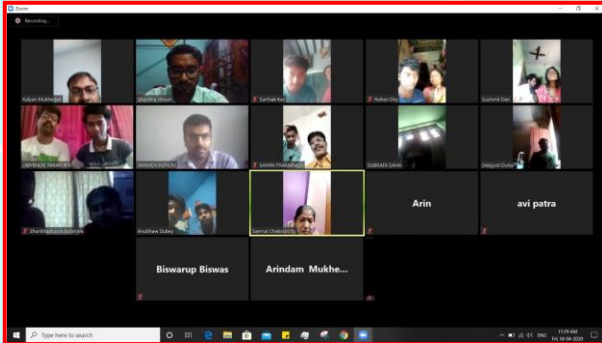
With an objective to create a digital archive and a digital repository of the academic contents, so that the students can read and learn at any time, from any place, the Department of Automobile Engineering created a YouTube channel. **Till now, 144 lectures have been uploaded and the total views of this channel are 896.**

**Online Tests taken: 23**

All the faculties have taken Online Tests of their individual subjects using the Digital Platforms **Google Classroom and Google Forms.**

**Almost 90% of the Automobile Engineering Department students** were present in the **2nd SLOT TEST Examination**, which was organized by the sheer supervision of Respected Principal Sir and the constant motivation and encouragement of Honourable MD Sir and the JIS Management.

## Digital Parent Teacher Meetings



## PTM's Conducted: 2

On 10<sup>th</sup> April, 2020 Department of Automobile Engineering, organized Parent-Teacher Meeting for the students of B.Tech as well as Diploma.

We shared the details of the ongoing digital teaching-learning methodologies with the Parents and had a interesting discussion regarding the pros and cons of this system. The parents shared their ideas like taking more online class tests, providing E-Books so that the Academics can smoothly run. But for the continuation of the academics, they expressed their heartfelt thanks to MD Sir and our faculty members for their continuous efforts.





# Industry Collaborative Webinars



## Webinars conducted by Industrial Persons: 5

**DR. SUDHIR CHANDRA SUR DEGREE ENGINEERING COLLEGE**  
 540, Dum Dum Road, Surer Math, (Near Dum Dum In. Station), Kolkata - 700074  
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**Webinar on "Advances in Automobile Engineering"**  
**EGR, SCR and Electric Vehicles**

Guest Speaker : Mr. Dolon Kumar Das Faculty In-charge (Automobile Engineering) Mukesh Training Academy

**Wednesday, 8<sup>th</sup> April, 2020, Time - 3.30 pm onwards**  
 In association with Automobile Engineering Department of DSCSDEC

**Advances in Automobile Engineering:  
 EGR, SCR and Electric Vehicles**

**Speaker**  
**Mr. Dolon Kr. Das, Faculty In-charge,  
 (Automobile Engineering), Mukesh  
 Hyundai Training Academy**

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**Applications of Metallurgical Principles and Concepts used in Automotive Component Production Industries**

**Speaker: Mr. Raju Ghoshal, M.Tech in Foundry and Forge Technology, R & D Engineer and Industry Expert**

**Monday, 13<sup>th</sup> April, 2020 Time : 4.00 pm onwards**  
 In association with Automobile Engineering Department of DSCSDEC

**Metallurgical Principles used in  
 Automobile Industries**

**Speaker**  
**Mr. Raju Ghoshal, R&D Engineer and  
 Industrial Expert**

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**Webinar on Introduction to 3D Printing and Business Opportunities**

**Speakers**

Sourabh Joshi Co founder & Marketing & Sales Manager, Solidspace Technology      Subhro Dey Co founder & Operations Manager, Solidspace Technology

**Tuesday, 14<sup>th</sup> April, 2020 Time : 4.30 pm onwards**  
 In association with Automobile Engineering Department of DSCSDEC

**Introduction to 3-D Printing and  
 Business Opportunities**

**Speakers**  
**Mr. Sourav Joshi and Mr. Subhro Dey,  
 Co-founders, SolidSpace Technologies**

**Dr. Sudhir Chandra Sur Degree Engineering College**  
 540, Dum Dum Road , Surer Math, Kolkata - 700074

**Webinar on the theme "The Roar of Engines: COVID 19 and Beyond"**

**Speaker: Mainak Chakraborty Expert in Industrial Economics**

**Date: 24<sup>th</sup> April, 2020 Time: 05.00 pm onwards**  
 Registration Link: <https://forms.gle/sHKvviYajsd6dBNt6>  
 Webinar Link: <https://bluejeans.com/827567581/6995?src=calendarlink>  
 In association with the Department of Automobile Engineering, DSCSDEC

**The Roar of the Engines: COVID19  
 and Beyond**

**Speaker**  
**Mr. Mainak Chakraborty, Expert in  
 Industrial Economics**

**Industry Connect Lectures**

Organised by Department of Automobile Engineering

**Webinar on Reliability of Industrial Components**

**Speaker Mr. Prabir Namhata Industrial Expert**

Registration Link <https://forms.gle/BN7UtsByZpYKq9B48>  
**1<sup>st</sup> May, 2020 5 pm onwards**

**Reliability of Industrial Components**

**Speaker**  
**Mr. Prabir Namhata, Industrial Expert**





## Webinars by Distinguished Alumni



During the lockdown period, we have contacted many distinguished alumni of Automobile Engineering Department. We are extremely grateful to our Alumni, Mr. Asjad Reza and Mr. Sayan Sadhu, who have provided their valuable time to motivate and encourage our present students.

Alumni Connect  
Industry Lecture Session

**Webinar on  
"Vehicle Safety Management and Vehicle Insurance Policies  
Adopted by Industries"**

Organized by:  
Department of Automobile  
Engineering  
Date : 16<sup>th</sup> April, 2020  
Time : 05.00 PM onwards

**Asjad Reza,  
Deputy Manager (Auto claims)  
Tata AIG GIC Ltd**

Zoom Meeting :  
<https://us04web.zoom.us/j/3176152343?pwd=NE9pYzFLNEUwMzVzdjJzSjRyZCUQT09>  
Meeting ID: 317 615 2343  
Password: 5xU9Xy

**Vehicle Safety Management and Insurance Policies adopted by Automotive Industries**

**Speaker**

**Mr. Asjad Reza  
Deputy Manager (Auto Claims)  
TATA AIG GIC Ltd.**

Asjad was the student of Automobile Engineering Department of 2013-2017 Batch.

**ALUMNI CONNECT**  
Industry Lecture Session

Organised by  
Department of Automobile Engineering

**Webinar on Turbochargers &  
Necessity of BS-VI**

**Speaker**  
**Mr. Sayan Sadhu**  
Deputy Manager, Ashok Leyland  
Alumni of Automobile Engineering Department

Registration Link  
<https://forms.gle/ewSwziSNvLeXdVIZ8>

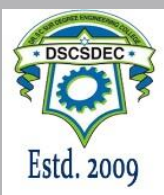
**3<sup>rd</sup> May, 2020  
6 pm onwards**

**Turbochargers and the necessity of BS-VI**

**Speaker**

**Mr. Sayan Sadhu  
Deputy Manager (Operations)  
Ashok Leyland**

Sayan was the Alumni of Automobile Engineering Department, DSCSDEC of 2014-2018 batch.



## Internship Details



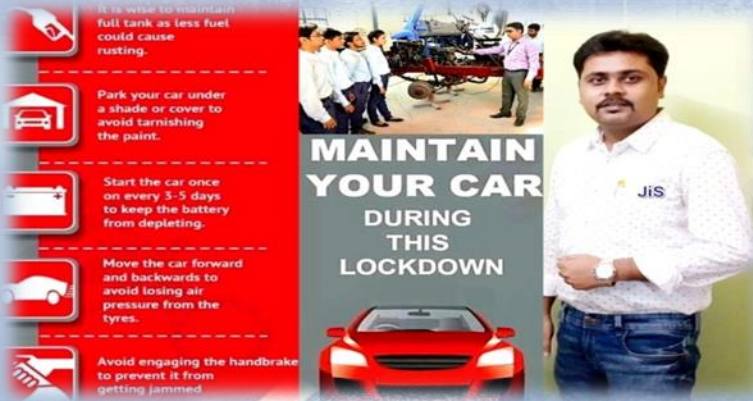
**Students Registered for Online Internships: 31**

All the students of Automobile Engineering 3<sup>rd</sup> Year registered for the mandatory Online Internships as per MAKAU Guidelines. Along with these Internships, many of them have opted for the Paid Internships. The Internship Details for the students are mentioned below:

Student Name	Topic of Internship	Mentor Name
Avi Patra	Preparation of a project report for 10 kW solar power plant at our Institute	Mr. Arindam Mukherjee
Jonty De		
Rituraj Munshi		
Promit Sen		
Tunir Majumder	Electric Locomotive	Mr. Subrata Saha
Anubhav Dubey		
Samrat Chakraborty		
Shankhashuvra Banerjee		
Arin Halder	Design and software implementation of E Rickshaw using solar panel	Mr. Kalyan Mukherjee
Animesh Roy		
Md. Nadim Ansari		
Dibyendu Tarafder		
Subham Chandra Mahato	Study on Hybrid Vehicles	Mr. Shankha Ghosh
Sayan Pramanik		
Susmit Dan		
Shuvam Basak		
Souvik Kar	Power Plant Maintenance Practices	Mr. Tanmoy Kundu
Saptarshi Adak		
Sagar Biswas		
Rohit Barua		
Akash Roy		



# Vehicle Maintenance During Lockdown Period



Video made by Mr. Supriya Dhara, JTA, to explain the maintenance of vehicles during the Lockdown Period.

**Link:**

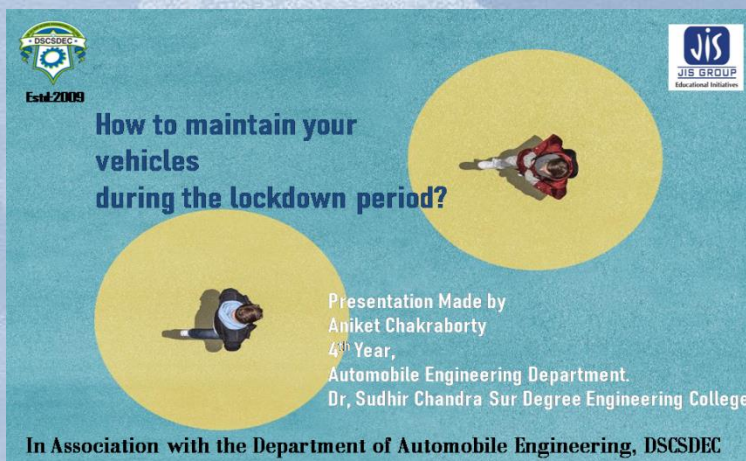
<https://www.facebook.com/watch/?v=2323555347445170>



Aniket Chakraborty, B.Tech, 4<sup>th</sup> Year student of Automobile Engineering Department explains the process and procedures to maintain four wheelers during the Lockdown Period.

**Link:**

<https://www.youtube.com/watch?v=32KGJEOh1Ik&t=110s>



Presentation made by Mr. Arindam Mukherjee and Aniket Chakraborty, explaining briefly the common measures which needs to taken by the owner of any vehicle. The presentation includes the maintenance of both four and two wheelers.

**Link**

<https://drive.google.com/file/d/1JeK7afEnfMREHkToOX7moiWAbCOgGkRk/view?usp=sharing>



## Songs of Hope to fight against COVID19

### Songs of Solidarity Shankhashuvra Banerjee #IndiaFightsCOVID19

**Shankhashuvra Banerjee, a student of 3<sup>rd</sup> Year (B.Tech), Automobile Engineering has written and sung a song to extend hope and optimism to fight against the COVID19 pandemic condition.**

The link of the song:

<https://youtu.be/7-tmAfBJoGA>

## Wonder Wheels: A project to redefine Vintage Vehicles



## WonderWheels

Two students of Automobile Engineering (Diploma) have started a new project to redefine the old and vintage Vehicles which have been lost in the shades of time. They are trying to create a platform, where they will be able to discuss the unique features of all these vehicles.

The link :

<https://www.facebook.com/DSCSDECAUE/posts/722495808491066>



# #Fight against COVID19



Poster made by Ritwika Sen to spread awareness to fight COVID 19



Poster made by Sabyasachi Das to communicate Stay at Home



Automobile Engineering students collectively spreading the message to stay at homes



Poster made by Afridi Ahmed, 2<sup>nd</sup> Year B.Tech, student thanking the doctors and all the medical workers





In the upcoming days, India faces a huge water crisis according to the report published by NITI Aayog in 2018. The reports suggest that 54% of India faces high to extremely high water stress. Since, the lockdown period the water of consumption of water has been increased due to obvious reasons. So, we are trying to understand the characteristics of Rainwater Harvesting Plant technology so that the upcoming crisis can be dealt with.

For more details follow our social media pages

<https://www.facebook.com/DSCSDECAUE/>

<https://www.youtube.com/channel/UCrSHeQ6rHS9ETRMNxCyCDhQ>