



TRIUMPH
Newsletter Published
by



MECHANICAL ENGINEERING DEPARTMENT
Special Issue: "Victory" Over Pandemic Situation (COVID19)
March-April 2020

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 newsletter during this crisis period when everyone are fighting hard to combat with COVID 19, to all faculties, staff and students of Department of Mechanical 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

"Where there is unity there is always victory"

-----Publilius Syrus



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From TIC's Desk

Mr. Subhasish Halder

Dept. of Mechanical Engineering

Dr. Sudhir Chandra Sur Degree Engineering College.



I am happy to present our current special issue of the NEWS LETTER "TRIUMPH" i.e. "VICTORY" over pandemic situation due to COVID19 as a replication of departmental activities.

A disease is termed as a pandemic when it spreads all over the globe and in most countries of the world. COVID-19 was declared as a pandemic by WHO (World Health Organization) after its spread was confirmed in more than 100 countries. Since the time COVID-19 came to India, there have been new terms emerging every day. From pandemic, social distancing to quarantine, there are many newer terms which were introduced to us during this period.

*Though government has been trying to make it as clear as possible for the general public. India is now following lockdown and practice social distancing or home quarantine. But "**Health care workers, police force and other social workers**" are doing their duties on the frontlines against **COVID-19**. We might say 'hero' too much these days, for their courageous, selfless and kind. Their determination to help others, at risk to yourself, is truly inspiring.*

*I appreciate my team members for their continuous effort in bringing out this newsletter and this time exclusively our struggle against COVID19. It gives me immense pleasure in seeing the articles by faculty and students on different activity and the department of mechanical engineering seems to be pro-active in organizing many online programs. We are very much grateful to the **Principal, DSCSDEC** and management of **JIS group** for their blessing and support to accomplish all such kind of activities.*

"Where there is unity there is always victory"

-----Publilius Syrus



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From Editor's Desk

Mrs. Ruma Sen

Assistant Professor

Dept. of Mechanical Engineering

Dr. Sudhir Chandra Sur Degree Engineering College.



We all can take pride from the fact that each one of us has contributed to the present day glory and growth of our college. Our Newsletter will serve as an interface between the Mechanical Engineering department of our Institute and outside world. It provides information about the academic activities organized in our department. Information about curricular and co-curricular activities held during recent past is also shared. I am happy to note that we have taken various initiatives to disseminate knowledge by organizing webinar, online quize, wall magazine competition, social activities etc. Online lectures are also organized by our departments time to time. The newsletter "Triumph" will increased awareness, enhanced the interaction among all of us during this hard time due to Covid19.

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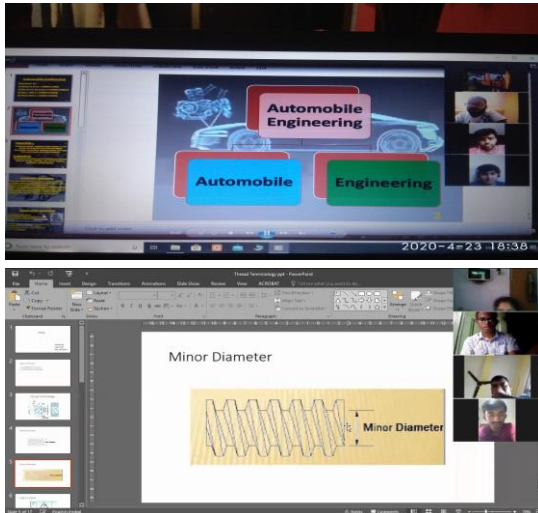


Departmental Events Organized

Name of Activity	Date	Name of Activity	Speaker name/ organization
Digital online class with doubt clearing session, mentorship & Departmental meeting	16.03.2020 to till today	Classes as per WBUT syllabus for even semester	All faculty members and T.A, of ME Department, DSCSDEC
PTM	10.04.20	Parent Teacher Meeting	ME DEPARTMENT, DSCSDEC
Webinar	13.04.2020	Technical workshop on CATIA AND AUTOCAD	ARDENT COMPUTECH PVT LTD
Webinar	17.04.20	Potential Job Opportunities in Metal Industries	Professor. (Dr.) Goutam Sutradhar, Director NIT, Manipur
Webinar	20.04.20	Introduction to machine tool and tool nomenclature	Professor. (Dr.) John Deb Barma, Associate Professor NIT, Agartala.
Webinar	23.04.20	Vehicle/Product development Cycle"	Mr. Padmesh Sewda, Validation Leader- Renault Global Projects, RNTBCI.
Webinar	24.04.20	Genetic Algorithm	Dr. Priyabrata Mahapatra, Assistant Professor, KIIT University, Bhubaneswar
Alumni meet	25.04.20	We connect	ME Dept, DSCSDEC
Webinar	26.04.20	Automotive Industry- Future & Opportunity	Mr. Rajiv Ranjan Choudhary, Area Manager Service- Odisha, Hero Motorcorp Ltd.
Webinar	29.04.20	Automotive Performance Development	Ms. Adrita Roy, Honda R&D Asia Pacific Co Ltd
Webinar	01.05.20	Application Of Fluid Mechanics In Designing Microsink	Dr. Aparesht Dutta, Assistant professor NIT, Durgapur

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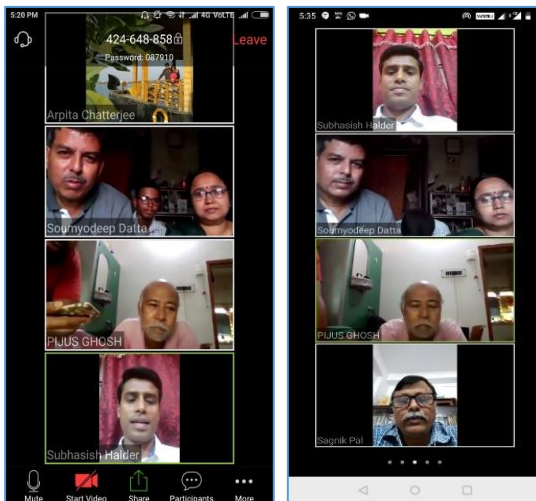
-----Publilius Syrus



ONLINE CLASSES:

Although the circumference is very sensitive, but the faculties of ME department have continued their teaching and discussion classes by using different online platform like Myperfectice,

Gotomeeting, Zoom, Google classroom etc. Along with this different study materials, recorded video lectures, Assignments are also provided to the students regularly. TA's have also taken their respective lab classes and doubts clearing classes through different online portal like Virtual Lab, zoom etc. By google classroom they regularly provided their lab to the students.



PARENT TEACHER MEETING:

The meeting was intended to have feedback on digital learning from parents and also to improve the academic performance by sharing more ideas. In the meeting faculties have described the online educational methodologies initiated by our department. The mentors of the relevant Academic Years then discussed the status of the individual students whose parents were present in this meeting.

After formal discussion the meeting was open to the guardians. The parents enquired about the possible dates for the semester examination and when the college is going to open. We assured them that the university will declare a formal notice and in the meantime our students will be supported and helped by all possible means on academic related activities. The parents asked for more online support

for some specific subjects. We informed them about the digital library where the students will be benefited to receive the E-Books in addition to the notes provided by us. At the end all the parents praised the initiative taken by the college for uninterrupted online education in this time of crisis. All faculties assured their support to all the students and parents in all possible ways.

The meeting ended with a note of "STAY HOME, STAY SAFE".

"Where there is unity there is always victory"

-----Publilius Syrus



WEBINAR ON TECHNICAL WORKSHOP ON CATIA AND AUTOCAD

During the session on Auto CAD, Mr. Soumyadip Sarkar explained the basic concepts of AutoCAD and demonstrated the practical usage of the same. Further he also engaged in interactive brainstorming sessions to help the students to have better understanding of the modelling software. He also mentioned the future trends and the present industry practices. His presentation was an engrossing experience for all of our students and his quick response to the verbal prompts and excellent doubt clearing session was admired by all.

Similarly the session on CATIA was also excellently handled by Mr. Bijoy Naskar who explained the basics of CATIA followed by demonstration of the modelling of geometrical designs and various machine parts for better grasp on the functionality of the software. His session was well appreciated by the students and they were immersed in the discussion from start to end. All the concepts were explained in an extremely lucid manner which cultivated great interest and curiosity in the minds of the participants.



WEBINAR ON POTENTIAL JOB OPPORTUNITIES IN METAL INDUSTRIES:

During the session on potential job opportunities in metal industries, Professor Goutam Sutradhar explained the basic concepts of Foundry and demonstrated the future potential of the same. Further he also engaged in interactive brainstorming sessions to help the students to have better understanding of the future of the metal industries of India and its potential.

He also mentioned the future trends and the present industry practices. His presentation was an engrossing experience for all of our students and his quick response to the verbal prompts and excellent doubt clearing session was admired by all. All the concepts were explained in an extremely lucid manner which cultivated great interest and curiosity in the minds of the participants.

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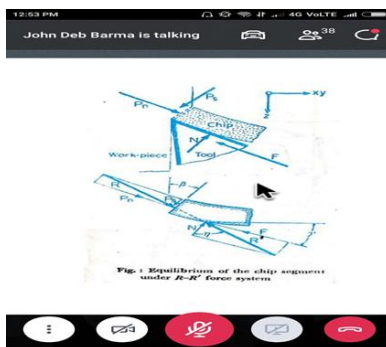
Dr. Sudhir Chandra Sur Degree Engineering College
540, Dum Dum Rd, Surer Math, Dum Dum, Kolkata-700004,
Phone: 033 25603889
<https://mec.ac.in>, Email: info@mec.ac.in

WEBINAR
ON
INTRODUCTION OF MACHINE TOOL AND TOOL NOMENCLATURE

Organized by
Mechanical Engineering Department

Dr. John Deb Barma
Associate Professor
MIT, Agartala

Date: 20/04/2020
Time: 32 PM



WEBINAR ON INTRODUCTION TO MACHINE TOOL AND TOOL NOMENCLATURE:

During the session the basics of Machine tool and then elaborated the theory and concepts of Tool Nomenclature was explained. His session and explanation was really lucid which cultivated great interest and curiosity in the minds of the students and was appreciated by them.

Further he also engaged in an interactive brainstorming sessions to help the students to have better understanding of the subject.

DSCSDEC Promotes Digital Education

Webinar on
"Vehicle/Product Development Cycle"

Organized by:
Department of Mechanical engineering

Date :23rd April, 2020
Time:12 P.M Onwards

Mr. Padmesh Sarda
Validation leader, Renault
Global Projects,
RNTB07

Ghar Pe Padhai Corona Se Ladai

WEBINAR ON VEHICLE/PRODUCT DEVELOPMENT CYCLE:

During the session it is clearly explained why there is a need for a product development, the importance of the product development cycle and how its failure brings a catastrophic effect to the company. It is also discussing how the products of the world have changed over the past decade and how important it is to develop products so that it can sustain future uncertainties. At the end of the session there was a question answer round which was an interactive brainstorming session. The speaker's explanation to the questions was very prompt and satisfactory which was appreciated and admired by all.

DSCSDEC Promotes Digital Education

Webinar on
"Genetic Algorithm"

Organized by:
Department of Mechanical engineering

Date :24th April, 2020
Time: 4:00 PM - 5:00 PM

Dr. Prabhata Mahapatra
Assistant Professor,
School of Mechanical Engineering,
KIIT University, Bhubaneswar

Ghar Pe Padhai Corona Se Ladai

WEBINAR ON GENETIC ALGORITHM

The concepts of Genetic Algorithm and the theory on why the GA are the heuristic search and optimization techniques that mimic the process of natural evolution are elaborated in this session. Speaker's session and explanation was really lucid which cultivated great interest and curiosity in the minds of the students and was appreciated by them. Further he also engaged in interactive brainstorming sessions to help the students to have better understanding of the subject. His presentation was an engrossing experience for all of our students and his quick response to the verbal prompts and excellent doubt clearing session was admired by all.

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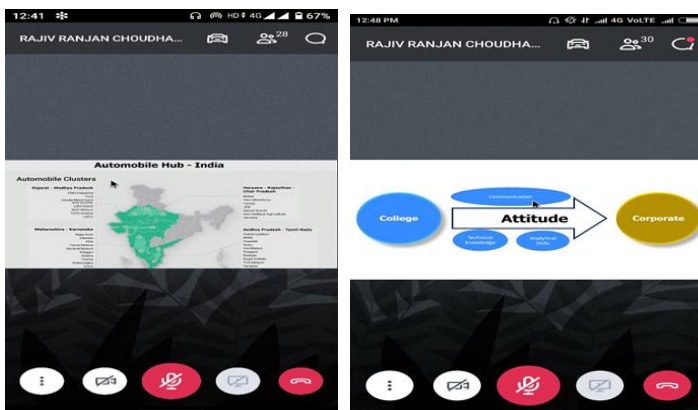
-----Publilius Syrus



ALUMNI MEET: WE CONNECT

The main objective of the program was to know the impact of the situation of COVID-19 around them and to share their working experience during this lock down period. Alumni from various batches and from all over the countries were present in this online alumni meet. They appreciated such meetings and suggested that there should also be parallel online alumni meetings along with the physical meeting in the future whenever alumni meetings are held as it opens up more options for the ones who are not able to be present physically. They were overwhelmed to see their teachers and junior batch mates. They shared their views, ideas and information regarding their present status and job opportunities with all the faculty members and fellow junior batch mates. They gave hope to the students saying that everything would be in its place once the harsh time subsides and that job is for the ones who are focused and determined.

Everyone was appreciating the initiative taken by **Hon'ble MD Sir** to go for uninterrupted education via online digital platforms. Everyone was happy to be a part of **JIS group family** as the group has donated **2.51 crores in CM fund to fight with COVID-19**.



WEBINAR ON AUTOMOTIVE INDUSTRY- FUTURE & OPPORTUNITY:

During the session speaker gave an insight on the automotive industry and how much the industry contributes to the GDP of India. He further went on explaining the job opportunities in such industries, at present the industries generates about thirty five million employments both directly and indirectly. The future of the industry is huge as the industry at present is under metamorphosis from petrol and diesel engine to battery operated vehicles, currently the industry is

of 74 billion dollars and is expected to grow to 300 billion by 2026. There are a lot of resources spent on R&D and interested students can surely opt this as their career. At the end of the session there was a question answer round which was an interactive brainstorming session. His explanation to the questions was very prompt and satisfactory which was appreciated and admired by all.

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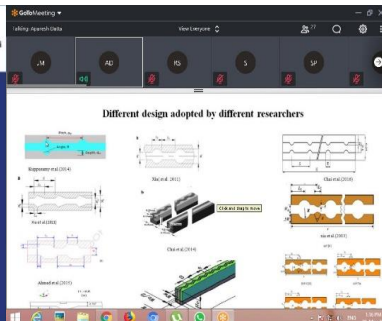
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WEBINAR ON AUTOMOTIVE PERFORMANCE DEVELOPMENT:

During the session speaker gave a brief insight on the automotive industry, she then went on explaining why the development and validation process of a product is necessary and what are the processes involved in the development process. Her final session was on the validation of vehicles. She

explained in detail the levels of test the vehicle has to go through, the types of test functions and validation process and the final approval test, which certifies the vehicle. At the end of her session there was a question answer round which was an interactive brainstorming session. Her explanation to the questions was very prompt and satisfactory which was appreciated and admired by all.



WEBINAR ON APPLICATION OF FLUID MECHANICS IN DESIGNING MICROSINK:

During the session speaker explained the basics of boundary layer equations and then elaborated the theory and concepts of entry flow in ducts and separation of boundary layer and its control. His session and explanation was really lucid which

cultivated great interest and curiosity in the minds of the students and was appreciated by them. Further he also engaged in interactive brainstorming sessions to help the students to have better understanding of the subject. His presentation was an engrossing experience for all of our students and his quick response to the verbal prompts and excellent doubt clearing session was admired by all.

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INDUSTRIAL VISIT OF 3RD YEAR MECHANICAL STUDENTS

Factory: RADIX ARC PVT. LTD.
Date: 12th March 2020



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-----Publilius Syrus

SOCIAL ACTIVITIES DONE BY STUDENTS OF ME DEPARTMENT:

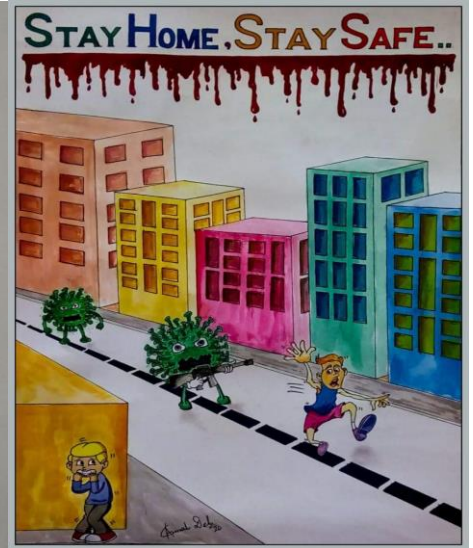
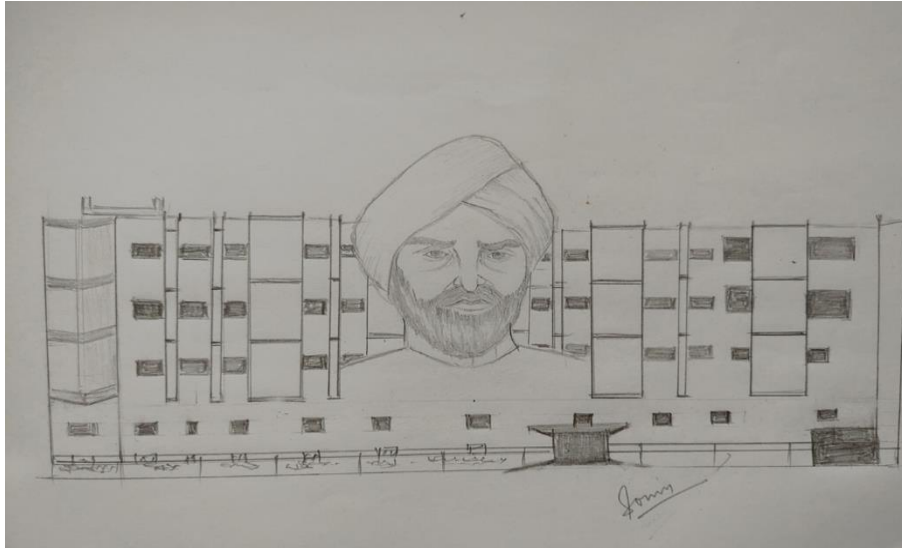
All our students actively came forward and took initiatives to participate different social activity and awareness programs by their own. All faculty members also motivated and guided them at this hour of great crisis. Sharing social awareness photos and videos related to COVID19 AND LOCKDOWN through online digital platforms and social media. Distributed food to help the poor and needy person.



"Where there is unity there is always victory"

-----Publilius Syrus

PAINTING BY STUDENTS:



PHOTOGRAPHY DONE BY STUDENTS:



"Where there is unity there is always victory"

-----Publilius Syrus



SPORTS WEEK CELEBRATION:

Mechanical Engineering Department has win the cricket tournament.



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-----Publilius Syrus

RABINDRA JAYANTI CELEBRATION

To commemorate the 159th Birth Anniversary of India's heritage, "Kabi Guru" Rabindranath Tagore, all the students of our department took active participation.

During this lockdown period students gladly took this opportunity to perform some cultural activities for recalling this magnanimous personality.

কবিরূপে
শুভজিত দে

মনের আশ্রয় মিলন বুঝি একেই বলে,
যেখানে তোমাতে আমাতে মিশে আছে,
তোমার প্রতিটি পদক্ষেপ।


সেই শিশু সুলভতা থেকে শুরু
করে, তোমার মৃগুতা।

ক্ষুধিত মানুষের সমাজ থেকে,
তোমার ভাবাবেগ।

প্রকৃতির মাঝে ধরা দিয়েছে
বারবার পূর্নিমারূপে।
দুঃস্থপ কে করেছে ভূপতিত।

শান্তির লালিত বাণী যার প্রতিটি
কণ্ঠে উচ্চারিত,
বসন্ত যার প্রতিটি ছন্দে
জানিয়ে যায় উপস্থিতি,
যার সুরে তাল মিলিয়ে
বাংলার নদী, মাঠ, আজও আপ্তত,
যার পটচিত্রে ধরা দেয়
গ্রাম বাংলার জীবনস্মৃতি।

মৃত্যুঞ্জয়ী রূপে আজও বিরাজমান সে,
আমার প্রাণের কবি রবি।



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WALL MAGAZINE "SANKALP"

The wall magazine 'SANKALP' reflects the humanitarian and creative activities of the students and faculty members and their commitment to the society.

In the wall magazine the students have put up their creative ideas during the lockdown period in the form of paintings, writing poems, stories, creative art, photography, and videography. We are proud that some of our students went to the extent of helping poor and the needy people by donating them food and daily essentials.



DR. SUDHIR CHANDRA SUR DEGREE ENGINEERING COLLEGE
An Educational Initiative of JIS Group

DEPARTMENT OF MECHANICAL ENGINEERING

SANKALP

MISSION

- To support INDIA along with all Covid19 fighters and people with low incomes through donations and lending a helping hand.
- To support INDIA by following the guidelines "STAY HOME STAY SAFE" & "Maintain Social Distancing".

VISION

- The overall vision of this collaborative arrangement is to reduce risk, provide facilities to weaker sections of society & those affected by coronavirus, recovery for sustainable development and finally eradicate the coronavirus and improve the economy again.



SANKALP

STUDENTS' ACTIVITIES

INSPIRE OF LOCKDOWN STUDENTS OF MECHANICAL DEPT. ARE VERY MUCH UTILIZING THIS TIME IN SOCIAL WORKS AND ENHANCING THE SKILLS ALONG WITH THEIR STUDIES.

RAHUL KHANRA OF 3RD YEAR WITH OTHERS DOING NOBLE WORK BY PROVIDING FOOD & ESSENTIALS TO THE NEEDY PEOPLE.

SKETCHES MADE BY SOMU BERA OF 3RD YEAR.

PAINTINGS DONE BY RIYA DAS OF 3RD YEAR.

Life is a difficult game. You can win it only by retaining your birthright to be a person

.....A.P.J. Abdul Kalam

"Where there is unity there is always victory"

-----Publilius Syrus