

TRIUMPH



Volume - III

NEWS LETTER



January - 2022

Department of Mechanical Engineering

Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex

Dum Dum Road, Surer Math, Melabagan Estate, Basak Bagan, Kolkata, West Bengal 700074

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 is 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 some changes are 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, the success will be yours. Making excuses for not doing things is very easy, equally easy is finding reasons, ways and means for doing it.

I appreciate your enthusiasm, support and cooperation during this crisis period. 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 put to a halt. 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!

Prof. (Dr.) Saradindu Panda Principal, DSCSITSC

HOD'S MESSAGE



It gives me immense pleasure to thank Respected Principal Sir for giving a desk in the Newsletter of ME Department. I welcome all of you to the Department of Mechanical Engineering. Our college is one of the best engineering colleges in eastern India. Department of Mechanical Engineering is working very hard towards the goal of providing innovative and quality education with high standard to achieve academic excellence in field of engineering and to provide the highly skilled mechanical engineers in the service of Nation. The prime motive of our Department is to provide quality education to our students. The process of learning is extremely important in life. What you learn, how you learn and where you learn play a crucial role in developing ones intellectual capability, besides career. The excellent infrastructure and teaching faculties of the best kind ensures quality education. We encourage and promote interaction among students. parents and staff, along with a Training and Placement Cell for necessary guidance and feedback so that we can constantly grow and improve in motto. The hands-on workshops, industrial seminars/webinars by reputed academic/industrial expertise and industry oriented beyond the curriculum trainings are also provided to the students to help them grow and get industry ready.

A quotation for all my budding technocrats:

"Education is not the learning of facts, but the training of the mind to think."
------ Albert Einstein

Dr. Ruma Sen HOD, Mechanical Engineering, DSCSITSC

ABOUT THE DEPARTMENT:

The Department of Mechanical Engineering was established in the year 2009 at the very inception of Dr. Sudhir Chandra Sur Institute of Technology and sports complex (formerly Dr. Sudhir Chandra Sur Degree Engineering College.) The department started with a 4 years B.Tech course (Capacity 30 Students) and later on, Master of Technology (Capacity 18 Students) came into being in 2012. Mechanical engineering is one of the most sought-after core streams of engineering disciplines with multidisciplinary fields of work. The department is flourished with excellent laboratory facilities with a wide range of learning facilities, high quality teaching and laboratory staff. The Department stresses upon all round development of the students by personal interaction between the staff and students beyond stipulated

working hours and available for guidance even after they have passed out of the college. The Department aims at producing employable engineers who are capable of contributing meaningfully to the society.

COURSES OFFERED:

Program	Intake	Duration	Eligibility
B.tech in Mechanical Engineering	30	4 years 3 years	10 + 2 or equivalent diploma or equivalent
M.tech in Manufacturing Technology	18	2 years	B.tech in ME or Equivalent

FACULTY PROFILE



Dr. Ruma Sen
HOD, ME Dept.
PhD. NIT, Agartala



Arpita Chatterjee
Asst. Professor
M.Tech, WBUT



Subhasish Halder
Asst. Professor
M.Tech, NIT Warangal



Subhendu Pal
Asst. Professor
M.Tech, Jadavpur University



Tanmoy DasTechnical Assistant
Diploma, WBSCTE



Anupama Kumar Technical Assistant Diploma, WBSCTE



Jit MajumderTechnical Assistant
Diploma , WBSCTE

DEPARTMENTAL EVENTS

SL NO	Event name	Resource Person	Designation	Date
1.	COVID- 19 LIFESTYLE MODIFICATION	Dr. Mollinath Mukherjee , Dr. Nidhi Prakas and Dr. Md. Taslim Shamim.	Apollo Gleneagles Hospitals, Kolkata, DT. NIDHI PRAKASH, Clinical Dietitian/Nutritionist, Kolkata and Dr. Md. Taslim Shamim from Amri Hospital.	17.05.20 21
2.	Rabindra Jayanti Celebration	Organized by Department of Mechanical Engineering	·	09.05.20 21
3.	MATERIALSPROCESSING- A STEP FORWARD FOR EXCELLENCE	Dr. K. L. Sahoo	Prior to joining CSIR-NML as a scientist	19.05.20 21
4.	photography competition Glimpse of lens	Organized by Department of Mechanical Engineering		02.07.20 21
5.	Session on Opportunities in Co re Industries"	Mr. Sanjay Bhandari	Chairman and Managing Director of Bhandari Group, Authorised dealers for Tata Motors – CV Division & Maruti Suzuki	07.07.20 21
6.	Quiz Contest " Mech-A- Maniac"	Organized by Department of Mechanical Engineering		22.07.20 21
7.	Session on Opportunities in Co re Industries"	Mr. Padmesh Sewda	Project Validation Leader - Validation & Performances Management - Electric Vehicle /Global Projects	23.07.20 21
8.	FDP is "Research Trends in Science and Technology".	Dr. John Deb Barma Dr. Pankaj kr. Das	Associate Professor National Institute of Technology, Agartala Assistant Professor National Institute of Technology, Agartala	26 .08.21 to 30.08.21
		Dr. Apurba Das	Assistant Professor Indian Institute of Engineering Science & Technology, Shibpur Department of Aerospace Engineering & Applied Mechanics	3000121
		Dr Atanu Bhattacharya	(SNF Postdoctoral Fellow) PhD, MTech, BE hons	
		Dr. Subrata Mukherjee	Head, Materials Characterization Research Group, R&D Tata Steel Limited Materials Characterization Research Group Jamshedpur 831007	
		Dr. Gopi Kishor Mandal	Principal Scientist MTE Division CSIR- National Metallurgical Laboratory, Jamshedpur - 831007	
9.	Online Technical free Worksho p by Sikharthy Infotech	Mr. Arnab Mondal	Arnab Mandal. from SIKHARTHY INFOTECH PVT LTD.	13.11.20 21
10.	Brief on Thermal Power Plant; An Industrial Perspective	Mr. Partha Haldar	Assistant professor & Controller of Examination from Government College of Engineering & Ceramic Technology, Kolkata.	17.11.20 21
11.	Monochrome photography competition	Organized by Department of Mechanical Engineering	<u></u>	10.12.20 21
12.	Session on "How to plan for Start-up and legal & ethical	Mr. Surya Narayan Bhandari	Proprietor S. N. B. Gears & Engineers	22.12.20 21

DEPARTMENTAL ACHIEVEMENTS

Department of Mechanical Engineering signed a Memorandum of Understanding (M.O.U) with Sikharthy Info-tech Private Limited on 7th December 2021. Under this M.O.U. Sidharthy Info-tech will provide industry-ready workshops, internships, and Placement to our Students. Department has organized a faculty development program on RESEARCH TRENDS IN SCIENCE AND TECHNOLOGY



Faculty Development Program

ON

"Research Trends In Science And Technology"

Date: 26 .08.21 to 30.08.21

Organized by: Mechanical Engineering Department

Sur Institute Of Technology

Convenor

Dr. Ruma Sen

Mrs. Arpita Chatterjee

Co-Convenor

Mr. Subhendu Pal





WEBINARS ORGANISED:

Webinars are organized by the department on a regular basis. These webinars include speakers from reputed institutions and organizations and are from various backgrounds like academics, medicine, industries etc. This not only increases knowledge of the students but faculties as well. Moreover the students along with the faculties and staffs get to interact with the experts and to know what the latest trends and technologies in their respective fields are. This makes education and learning interesting as compared to contemporary learning process which at times becomes monotonous.



DR. Mollinath Mukherjee, Apollo GleneaglesDt. Nidhi Prakash, Dietician/Nutritionist



Mr. Padmesh Sewda, Validation leader, RNTBCI, Chennai



Dr. K. L. sahoo, Scientist CSIR



Mr. Arnab Mondal Sikharthy Infotech Pvt. Ltd.



Mr. Sayanatan Chakraborty



Mr. Partha Haldar
Asst Prof. Govt.
College of
Engineering &
Ceramic technology



Mr. sanjay Bhandari CMD Bhandari Groups of Industries



Mr. Surya Narayan Bhandari Proprietor, S. N. B. gears & Engineers

STUDENT ACHIEVEMENTS

Students are the flag bearers of our college and it is of immense pleasure and pride when our students shine and are recognized on national or international platforms. Therefore it becomes our duty to encourage and inspire them in their works so that our dream is fulfilled. Our faculties and staffs encourage our students to participate in various activities like quiz competition, project competition, photography, coding, journal and conference paper writing etc. so that they are exposed to platforms where they can show their skills and knowledge.

Our students Pallab saha, Uday kumar nath and Subhodeep Paul have published an international conference paper. This session Subhodeep Paul has published an international conference paper in Second International Conference on Engineering Materials, Metallurgy and Manufacturing (ICEMMM 2021) held from 16th to 17th December 2021.













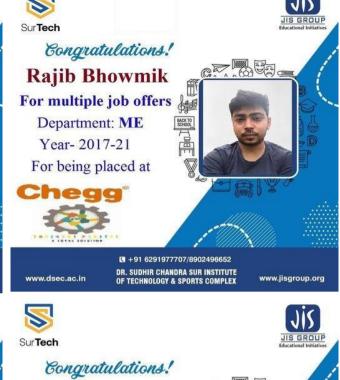


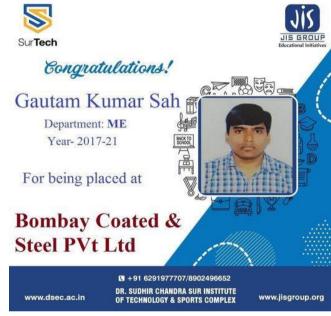




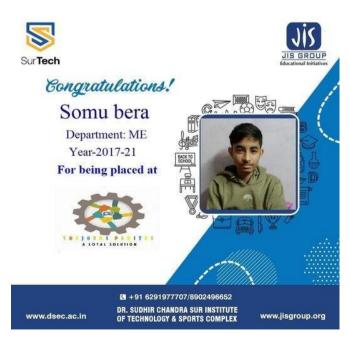




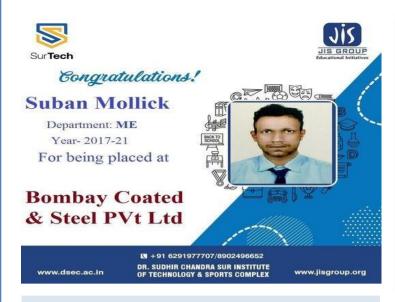












Our student has developed an AUTOMATIC TEMPERATURE SENSING AND SANITIZER DISPENSER which can be placed at the entry of any gate. This was done as a student project from the 2nd year. The team leader of the project was Anurag Shaw. This project was done to safeguard the society from the spread of Covid-19 as this is a self operated project which does not need any person to check the incoming people's temperature and spraying onto the their hands. temperature of any person is suspicious it will warn the person. Some pictures of the project are attached below. You can also find the details in the link given below.

Link: https://youtu.be/bt-73NkHVjQ











FACULTY AND STAFF ACHIEVEMENTS:

Throughout the year the faculties of the department are engaged in different academic activities which are related to their self growth and development. Faculties participate in various FDPs, conferences of national and International importance, professional courses and journal paper writings etc.

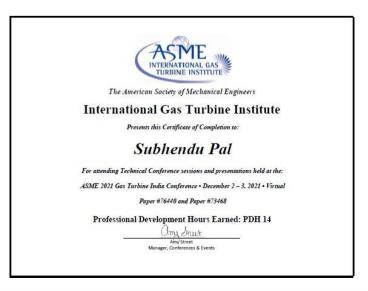




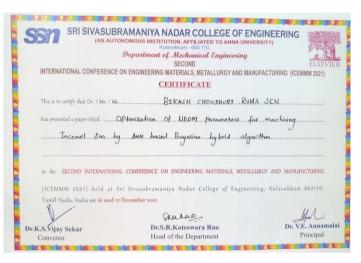


















4D Printing – The Future Additive Manufacturing Technology

3D Printing technology has existed for almost 30 years now. Yet, while the Additive Manufacturing industry is still discovering new applications, new materials, and new 3D printers, another technology is arising.

It is called 4D Printing. How do we add the fourth dimension to 3D printing?

4D Printing is referred to as 3D printing transforming over time. Thus, a fourth dimension is added: **time**. So, the big breakthrough about 4D Printing over 3D Printing technology is **its ability to change shape over time**.

The input in 4D Printing is a "smart material". Smart Material is one of the highly focused research areas in 4D printing, wherein the deformation mechanism of smart materials is synthesized as per their responses to various external stimuli.



This Programmable Table is the result of MIT's Self-Assembly Lab

Subhendu Pal
Assistant Professor
Department of Mechanical Engineering
Sur Institute of Technology



This smart materials can be either a hydrogel or a shape memory polymer. Thanks to their **thermomechanical properties** and other material properties. Smart materials are given the attributes to **change shape** over time in response to some **external stimuli** and are differentiated from the common 3D printing materials.

Application of **Mathematical Modeling** is essential in studying the functional structures of 4D printed objects. It predicts the deformation (forward) and formation (backward) process of an object triggered by stimuli.

However, most of the applications are currently in the research & development phase, 4D printing holds exciting potential in the field of aerospace, medical, defense, consumer goods etc.

4D printing is a fascinating area that opens up exciting possibilities for manufacturing. The ability to make objects with **programmable functionality** could transform the way in which goods are produced today.

A Comparative Review on Renewable Energy **Application, Difficulties and Future Prospect**

Uday kumar Nath Student, Mechanical Engineering Dr. Sudhir Chandra Sur Institute of Technology kolkatı, India nathuday04@gmail.com

Ruma Sen Assistant Professor, Mechanical Engineering Dr. Sudhir Chandra Sur Institute of Technology kollata, India numa.sen@dsec.ac.in

Abstract— According to the population growth, the energy demand has grown rapidly. Besides these, economic and technological improvement demands more energy utilization, important that more uses of conventional energy resources create a huge greenhouse gas which have an adverse effect on global ecosystem. But without energy, modernization of our civilization is quite impossible, 86, to save our planet, we have to choose some alternative resources of energy. That alternative energy sources should be renewable and sustainable. In this world we can find different types of renewable energy in different geographical position. The main advantages of renewable energy are that, it has a little effect on ecosystem, it can be collected even in had weather condition and overall it in tillunce on economic growth, job creation and energy security. But there are some problem is storing of renewable energy. Scientists and investors are continuously trying to overcomethis problem. Sometime, protest from common people during the intallation of renewable energy set up, make the situation difficult. Employment opportunities and some facilities reduce the protest against the application of suturinable energy. Public education and awareness on renewable energy high the policymaker to make decisions. From study of review papers experiment is going on sustainable energy. This paper has established an idea about different renewable energy application, which redifficulties application and this solution. It is also observed that with rising government strategy to reduce carbon emission for economic growth and with proper technique and storage arrangement, the renewable energy application, which significantly expendent of the energy application will significantly expendent of the energy application will significantly expendent to make the energy application will significantly expendent to the energy application will significantly expendent to the energy application will significantly expendent to the energy application will significantly

Keywords—Renewable Energy, Solar energy, Wind energy, dro energy, Tidal energy, Geothermal energy, Biomass ergy, Utilization, Future Prospect.

I. INTRODUCTION

The global economic scenario has significantly changed in last few years. The demand of energy is increasing day by day on account of modernization. Still now, the fossil fuel is the main source of the energy to the whole world and the axid source is limited. So it is a threat to us that the fossil fuels are going to be finish in few years. Besides these, uses of conventional be finish in few years. Besides these, uses of conventional energy resources cause the environmental pollution in different ways. To avoid these problems we have to choose some alternative source of energy. Here, we can think about the sustainable energy. The sustainable energies are eco-friently and economic. The proper use of renewable energy may undoubtedly replace the use of conventional source of energy. Environmental pollution can be easily controlled by

the use of sustainable energy. We can get and use this sustainable energy all most everywhere in the world and all-round the year without disturbing the eco-friendly condition [1]. The non-conventional energies are viable and it can be found unlimitedly in this world. Use of sustainable energy helps to reduce the carbon percentage in the environment. It reduces the fear of energy crisis in the future world. Use of found unlimitedly in this world. Use of sustainable energy helps to reduce the carbon percentage in the environment. It reduces the fear of energy crisis in the future world. Use of renewable energy can be a tool for economic growth and green revolution [2]. In this world some countries are struggling for energy resources. Due to shortage of energy some Asian and African countries are also lagging behind economically. That is why a huge amount of people are besing proper living standard globally. Extensive use of sustainable energy can solve these problems. Some developing countries are affortunate regarding to their non-conventional energy resources but their process of utilization is still to be developed. If they become successful to utilize their sustainable energy resources, their total scenario of economy, living standard and power generation will be change [3]. Greenhouse effect and eransformation of weather are serious indications for econystem. That is why different countries are trying to the contribution of the contribu

Joint Conference of ICTACEM 2021, APCATS 2021, AJSAE 2021 and AeSI 2021





Organised by





This is to certify that the paper entitled "A Study on Vibration Characteristics of Cantilever Conical Shell Made of FG Sandwich Material with Porosity and Thermal Effect" authored by Apurba Das, Subhendu Pal, Korak Sarkar, and Amit Karmakar has been presented in the conference via online mode.

Prof. K. P. Sinhamahapatra Organizing Chair

Review on the development scenario of renewable energy in different country

Subhodeep Paul udent, Mechanical Engineering Sudhir Chandra Sur Institute of Technology, kolkata, India utshodeeppaul 52@gmail.com

Snehasish Dey Student, Mechanical Engineering, Dr. Sudhir Chandra Sur Institute of Technology, kollata, India snehasishdey 17@gmail.com

Ruma Sen Assistant Professor, Mechanical Engineering, Dr. Sudhir Chandra Sur Institute of Technology, kolkata, India, ruma.sen@dec.ac.in

Pallab Saha Student, Mechanical Engineering Dr. Sudhir Chandra Sur Institute of Technology, kolkata, India pallabsongeet007@gmail.com

Abitract— To solve the environmental problems the choice of Renewable energy has become an important. The development in this field can improve energy efficiency and reduce greenhouse effect, this paper summarizes the renewable energy development situation, of the different country. The development rened of emerging renewable energy have been analyzed. In order to confirm that the development of renewable energy source, it is necessary to modified energy market and also necessary to maintain the rationality of policy formulation. Proper education system and awareness on renewable energy helps the energy market in case of development. From this study its found that a considerable experiment is going on renewable energy. This paper has established an idea about different renewable energy application, their development in different countries in the field of application and their solution.

Keywords-Renewable Energy, Solar energy, Wind energy Hydro energy, coal energy, nuclear energy, natural gas, Geothermal energy, Biomass energy, international development.

INTRODUCTION

The current world faces difficulties to reduce greenhouse effect and improve energy efficiency I, 23, Renewable Energy is the best alternative way to manage with this problem. And it also plays a significant role in improving environmental protection, and increasing employment in different countries. Many countries used renewable energy for the development of new generation of energy technology [5, 4]. With the development of rational policies and the middle ago of renewable energy technologies, the experience of low-carbon development is very important [5]. Many studies have analysed the development of renewable energy. Pazzleri et al. [6] evaluated the renewable energy situation and deliberated that the Thang et al. discussed Chins's energy structure and the progress of renewable energy states that the progress of renewable energy technologies, as well as increasing the share of dectricity in energy consumption. Wang et al. forecast usual table energy development atta of Chins and analysed energy-own ground and the structure of the structure

DEVELOPMENT STATE OF RENEWABLE

According to the statistics although the proportion of global primary energy consumption has delariorated yearly, but from last two years this consumption rate of Global energy is continuously growing on. Similarly, in case of fossil the growth of consumption rate has accrued only 16.90% over the pastten years [10,15]. In the case of coal, the rate of consumption is also confined to drop, For example, if we compare the data of 2017, growth rate only accounted for about 1/3 of the primary energy consumption growth rate. Due to safety concerns, total global run decarpower consumption has decreased by by day. The consumption rate of mucket power continuously failing for two consecutive years' compare than the level 10 years ago [11]. On the other hand, Natural gos utilization are also showing strong growth from last three years, and will be touched the highest level within ne years. The growth rate of other renewable energy sources was as high as 16.49%, which was about 11 mms higher than the armund growth rate of fissil energy consumption, showing a strong growth sources are differing from country to country. China's renewable energy such as wind, soler, bitmass, grothermal, hydrogen energy and other sources are differing from country to country. China's renewable energy stills has a 16 of from for grow th [13].

A. Renewable Energy Evolution in Euronean Union

A. Renewable Energy Evolution in European Union

The energy evolution in European Union

The energy evolution in European Union has started very entire.

In 2000, they firstly introduce the largest earbon emissions trading
system in the world and also get a emmatable result. They have
shot the energy entire the energy entire the elements of the entire that the energy entire the elements of the entire that the energy Structural Transformation EU Leads the World. Their
cod consumption rate as well as nuclear and non-hydro renewble
energy power consumption rate are 2.5 times higher than the global
average [13]. According to different reports, the EU's renewble
power generation is expected to increase 50% in 2000 compare to
present scenario [14,15]. Along with Energy efficiency, the demand
of electricity has also grown up. From the present scenario view it
can be expected that the EU modes further efforts to ensure its
renewable energy target [16].

B. Renewable Energy Evolution in US, Australia, and Brazil

In case of energy production Australia gain the ninth position in the world and one of the three net energy exportes among the Organization for Economic Cooperation and Development (OEEO) members. But The overall energy structure is still under development and the proportion of renewable energy is relatively small [20]. In the use of renewable energy Brazil leads the world. Brazil is the first country who start using bitomass fuels, and the largest producer and consumer of bitomass fuel. Energy consumption

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This is to certify that SUBHASISH HALDER

DR. SUDHIR CHANDRA SUR INSTITUTE OF TECHNOLOGY & SPORTS COMPLEX, KOLKATA WEST BENGAL

Participated in the Online AICTE Recognized Faculty Development Programme

Effective Teaching Learning using Social Media from

31/05/2021 to 04/06/2021 (one Week)

Conducted by

Education and Educational Management Department NITTTR, Chandigarh





Smil Dute Head of the Department





One Week Virtual Staff Development Program





Department of Mechanical Engineering Narula Institute of Technology

Certificate of Participation

This is to certify that Dr./Mr./Ms. JIT MAJUMDER of Dr. sudhir chandra sur institute of technology and sports complex has successfully completed the One Week Virtual Staff Development Program on "Academic & Non-academic Workplace Evolution" held from 20.09.2021 to 24.09.2021 at Narula Institute of Technology, Agarpara.

Blateri'

Dr. Sumit Chabri
Head of the Department
Department of Mechanical Engineering
Narula Institute of Technology



Prof.(Dr.) M.R. Kanjilal ncıpaı rula İnstitute of Techn



One Week Virtual Staff Development Program

On

"Academic & Non-academic Workplace Evolution"



Organised by Department of Mechanical Engineering Narula Institute of Technology

Certificate of Participation

This is to certify that Dr./Mr./Ms. ANUPAMA KUMAR of Dr. Sudhir chandra sur institute of technology & sports complex has successfully completed the One Week Virtual Staff Development Program on "Academic & Non-academic Workplace Evolution" held from 20.09.2021 to 24.09.2021 at Narula Institute of Technology, Agarpara.

Blakeri

Dr. Sumit Chabri

Dr. Sumit Chabri Head of the Department Department of Mechanical Engineering Narula Institute of Technology



Prof.(Dr.) M.R. Kanjilal



One Week Virtual Staff Development Program On



"Academic & Non-academic Workplace Evolution"

Organised by Department of Mechanical Engineering Narula Institute of Technology

Certificate of Participation

This is to certify that Dr./Mr./Ms. TANMOY DAS of Dr. sudhir chandra sur institute of technology and sports complex has successfully completed the One Week Virtual Staff Development Program on "Academic & Non-academic Workplace Evolution" held from 20.09.2021 to 24.09.2021 at Narula Institute of Technology, Agarpara.



Dr. Sumit Chabri Head of the Department Department of Mechanical Engineering arula Institute of Technology



Prof.(Dr.) M.R. Kanjilal Narula Institute of Technology



Narula Institute of Technology





Department of Mechanical Engineering

Certificate of participation

This is to certify that Mr. Tanmoy Das has prosperously participated in the staff development program on "Technical Skill Grooming and The Art of Living", organized by the Mechanical Engineering Department of Narula Institute of Technology, which was held in between 10th – 14th August, 2020 at Narula Institute of Technology, Agarpara, Kolkata.

(Slateri

Dr. Sumit Chabri Convener of the program HOD, Dept of ME, NiT



Prof.(Dr.) M.R.Kanjilal Principal Narula Institute of Technology



Narula Institute of Technology

An Educational Initiative of JIS Group



Department of Mechanical Engineering

Certificate of participation

This is to certify that Mr. JIT MAJUMDER has prosperously participated in the staff development program on "Technical Skill Grooming and The Art of Living", organized by the Mechanical Engineering Department of Narula Institute of Technology, which was held in between 10th - 14th August, 2020 at Narula Institute of Technology, Agarpara, Kolkata.



Dr. Sumit Chabri Convener of the program HOD, Dept of ME, NiT



Prof.(Dr.) M.R.Kanjilal Principal Narula Institute of Technology



Narula Institute of Technology





Department of Mechanical Engineering

Certificate of participation

This is to certify that Ms. ANUPAMA KUMAR has prosperously participated in the staff development program on "Technical Skill Grooming and The Art of Living", organized by the Mechanical Engineering Department of Narula Institute of Technology, which was held in between 10th – 14th August, 2020 at Narula Institute of Technology, Agarpara, Kolkata.



Dr. Sumit Chabri Convener of the program HOD, Dept of ME, NiT



Prof.(Dr.) M.R.Kanjilal Principal Narula Institute of Technology

SUMMER TRAINING:

Each year our students particularly the 4th semester and 6th semester students undergo summer training in reputed organizations after their even semester exams are over. This year our students completed their summer training (duration ranges from four to six weeks) from MSME Tool Room, Kolkata and Mukesh Hyundai. The purpose of the training is to expose the students to the industries and get acquainted to its workings. During this time they learn job-oriented skills, get hands-on training and learn from the industry experts.













INDUSTRIAL VISIT:

We are glad to share with you that the department of mechanical engineering had organized an industrial visit for our 3rd and 4th year students at Bureau of Indian Standards (BIS) laboratory, Kakurgachi. Students were accompanied by departmental faculty Mr. Subhendu Pal and Technical Assistant Mr. Tanmoy Das.

In the beginning, the students were given a hearty welcome and were updated on the various engineering facilities and domain of service present in the laboratory through a PowerPoint presentation. Gradually the staff of the respective departments guided the students to their 4 laboratories, RAL (Gold purification testing), Food Technology, Material Strength Technology (UTM lab), Hardness Testing Lab, and explained the process of standardization of various materials. 27 students visited the laboratory maintaining Covid protocols. The tour was highly informative and the students were exposed to practical operations which will bridge the gap between theoretical and practical knowledge. All the students are very much pleased with the experience along with

the hospitality given by them. They also gave a return gift for all the students which enhanced the



experience and happiness of all the students.











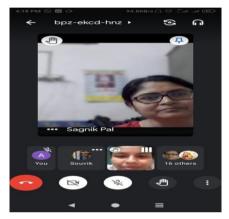


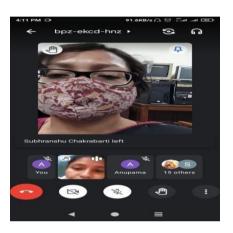
PARENT-TEACHER MEETING:

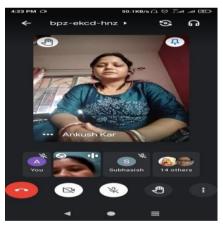
It is a customary of our institute to conduct Parent-Teacher meeting on a regular basis. This meeting is a two way communication. we hear from the parents on room for our improvement and suggest them to guide the students and support us so that we can deliver on what we have promised. This helps us to have a close bond not only with the students but their parents as well. Through this meeting feedbacks are taken on a regular basis from our stake holders so that we can improve and grow constantly.

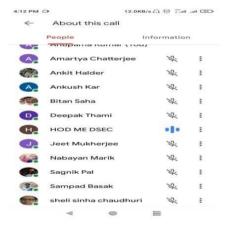
Some glimpses of the meeting are attached herewith.













DEPARTMENTAL ACTIVITIES (EXTRA CURRICULAM):

"All work no play makes Jack a dull boy" as rightly said which means that without time off from work, a person becomes both bored and boring. Therefore we as a department organize various extra curricular activities through out the year so that the students have a break from studies and engage into some kind of activities. Activities include poster making competition, quiz, photography competition, debate, celebration of special days, wall magazine, project making etc. to make it fruitful and attract their attention they are rewarded through prizes in each competition. Our students actively participate in such competitions and have produced some praise worthy projects.



More information and guidelines for the competition scan the QR code

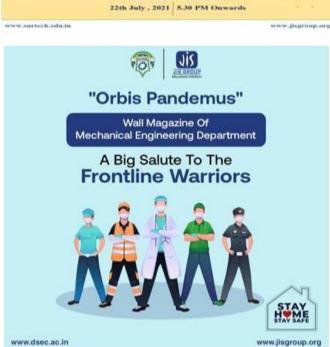
04:00 PM

10th December, 2021

www.surtech.edu.in



www.jisgroup.org



Mechanical Engineering Department

Mech-A-Maniac

