
Aspire

Achievements in Sports, Projects, Industry, Research and Education

Monthly Newsletter

Department of Mechanical Engineering

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ssn

*Sri Sivasubramaniya Nadar
College of Engineering*

Rajiv Gandhi Salai, Kalavakkam, Chennai, Tamil Nadu, India

Decorative geometric shapes in the bottom right corner, consisting of several overlapping triangles in shades of pink and red.

Doctors Without Borders

[Source](#)

Médecins Sans Frontières (MSF) is an international humanitarian aid medical non-governmental organization (NGO) of French origin that provides emergency medical assistance to populations in danger in nearly 70 countries. In countries where health structures are insufficient or



even non-existent, MSF collaborates with authorities such as the Ministry of Health to provide assistance. MSF works for the rehabilitation of hospitals and dispensaries, vaccination programs, and water and sanitation projects. MSF also works in remote health care centers, slum areas and provides training to local personnel. All this is done with the objective of rebuilding health structures to acceptable levels.

Raising Awareness

In carrying out humanitarian assistance, MSF also seeks to raise awareness of crisis situations; MSF acts as a witness and will speak out, either in private or in public, about the plight of populations in danger for whom MSF works. In doing so, MSF sets out to alleviate human suffering, protect life and health, and restore and ensure respect for human beings and their fundamental human rights.

Only a small percentage of the population that find themselves in a situation of danger gain the attention of the media. MSF teams travel to places that many people have never heard of to assist those who have fallen victim to natural or man-made disasters. MSF volunteers have a story to tell when they return from their missions, and they use their experiences to speak of what they have seen. For MSF, raising awareness for these populations and the situations they are in is an important task. Whenever possible, MSF volunteers give interviews and make presentations. MSF offices worldwide facilitate the organization of gatherings for individuals and groups who want to speak in their home communities.

It is part of MSF's work to address any violations of basic human rights encountered by field teams, violations perpetrated or sustained by political actors. It does so by confronting the responsible actors themselves, by putting pressure on them through mobilization of the international community, and by issuing information publicly. In order to prevent compromise or manipulation of MSF's relief activities, MSF maintains neutrality and independence from individual governments. The organization also tries to ensure that the majority of funds raised for its work come directly from contributions from the general public. In this way, MSF guarantees equal access to its humanitarian assistance.

MSF was awarded the Nobel Peace Prize in 1999. The judges chose MSF "in recognition of the organization's pioneering humanitarian work on several continents" and to honor the medical staff, who have treated tens of millions of people. The proceeds from the prize were used to set up a Neglected Disease Fund, designed to support pilot projects for the clinical development, production, and distribution of treatments for neglected diseases, such as Chagas, sleeping sickness, and malaria.

Campus Update

Shiv Nadar Foundation stand to build oxygen capacity in the country



We are proud to be a part of the Shiv Nadar Foundation stand to build oxygen capacity in the country as we battle the pandemic.

As the government gears up and stands ready for the third wave of COVID-19, Shiv Nadar Foundation is focusing efforts to contribute and save lives. To mitigate the oxygen crises, Shiv Nadar Foundation is to boost our healthcare systems now to ensure a safer future.

Oxygen plants with 300 LPM capacity



The image shows a white, industrial-grade oxygen plant with a digital display and control panel. It is labeled 'NOVAIR' and 'Contributed by HCL'. The plant is connected to various pipes and hoses, and is situated in a room with a concrete floor and walls.

HCL

HCL is supporting the Delhi Government to meet real needs on the ground as the COVID-19 pandemic rages in the country.

Sanjay Gandhi Memorial Hospital, Delhi

 **hcl_enterprise**

Shiv Nadar Foundation is helping to fulfill the infrastructural needs for oxygen by installing ready-to-use oxygen plants with 300 LPM capacity each at Sanjay Gandhi Memorial Hospital in New Delhi. HCL

As the number of cases continues to rise across the country, HCL aims at complementing state and local efforts to support those most affected by the pandemic. As India reels from the impact of the second wave of COVID-19, HCL strives to be #TogetherForTomorrow and contribute to healthcare services in Uttar Pradesh too. With the provision of oxygen-supported beds, ICU ventilators and other essential equipment, HCL aims to strengthen India's fight against COVID-19. The Shiv Nadar Foundation is to aid the healthcare sector and help India heal as one!



Management has always prioritised the welfare of our employees, their family and our students

Dr. Kala Vijayakumar

The President, SSN Institutions and

Pro Chancellor, Shiv Nadar University, Chennai.

The coronavirus pandemic has led to unprecedented difficulties. There is an acute shortage of healthcare facilities, especially beds with oxygen support, to cater to the patients suffering from Covid 19. As you are aware, the Management has always prioritised the welfare of our employees, their family and our students. For your benefit, SSN Trust has tied up with 2 hospitals - Chettinad Hospital, Kellambakkam and Sooriya Hospital, Vadapalani - to provide healthcare facilities, including beds with oxygen support, on priority to our employees, their immediate family and our students. In case you require these services, please contact Ms. Rebecca or Mr. Gnananandan and they will provide the necessary assistance.

SHIV NADAR FOUNDATION

HCL

COVID-19: Maintain the Right Nutrition

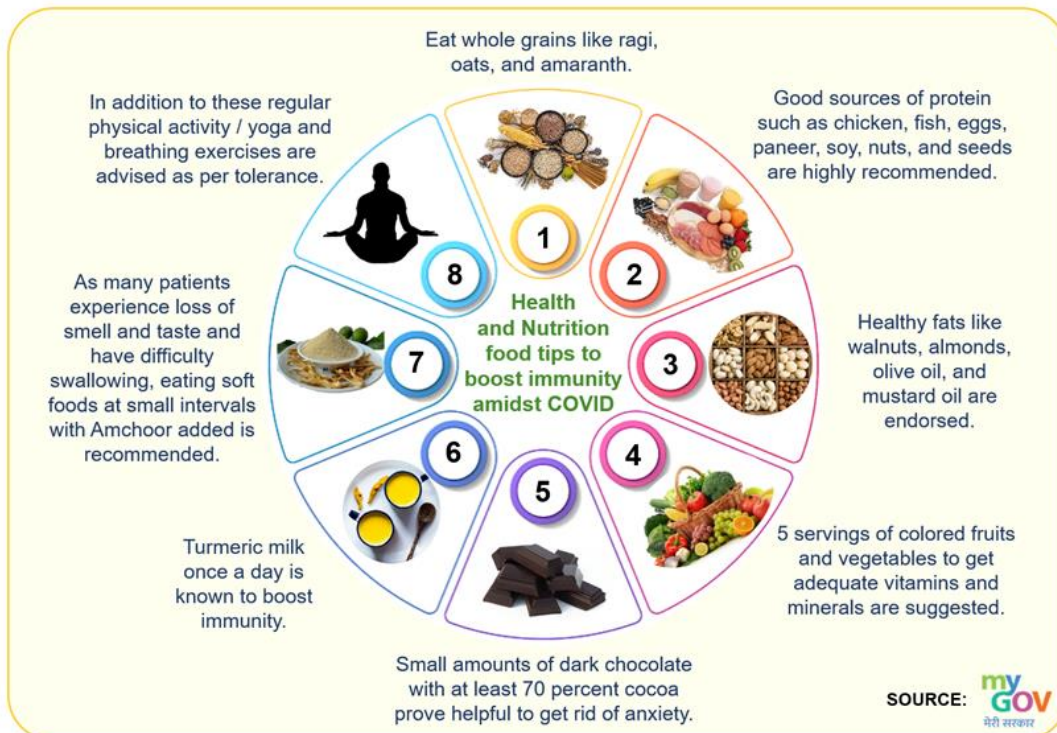


If you feel unwell or have any COVID-19 symptoms, you may contact HCL Healthcare 24x7 helpline number i.e. +91-9211022223 or send an email to Covid19@hcl.com.

“Let thy food be thy medicine and medicine be thy food.”

Dear All,

When dealing with COVID-19, taking measures to boost immunity is important and the right nutrition and diet is a vital part of this. A healthy nutritional intake not only supports in fighting the infection but it is also helpful in boosting immunity both as a preventative and rehabilitative measure. The main focus for COVID patients should be to consume foods that would help rebuild muscles immunity and energy levels.



5 STEP SAMPLE MEAL PLAN FOR EASY REFERENCE

- ☐ Start the day by consuming **soaked almonds and raisins**. Almonds are rich source of protein and raisins provide good amount of iron.
- ☐ For breakfast, **ragi dosa or a bowl of porridge** is the best option.
- ☐ **Jaggery and Ghee** recommended during or post lunch or have this nutritious combination with roti.
- ☐ For dinner, have a simple **khichdi** as it includes all the essential nutrients, is light on the gut and helps with good sleep.
- ☐ It is most important to **stay hydrated**. Apart from water, you must include homemade lime juice and buttermilk in your daily routine.

Department Update

Placement Update



Mahendran P received an offer from Daimler India Commercial Vehicles Pvt. Ltd. For 5lpa CTC. after the recently concluded virtual selection process. He already got placed in TCS too.



Glad to keep you updated that Our Final Mech Student 1. **Gowtham V**, 2. **Venkatesh Balachandar** and 3. **Vigneshwaran** got placed in Future Generali with a CTC of 4.15 Lpa.

Date of Commencement of Process: 30/04/2021, Total Count is 64 as of now.

Dr. N. Lakshmi Narasimhan

Patent Filed in collaboration with IIT-G



Mr. Divya Zindani, Assistant professor, Dept. of Mechanical Engineering, filed patent for the invention titled "ERGONOMIC CYMBAL" in collaboration with inventors from IIT Guwahati.

It is a traditionally used percussion instrument designed and developed with modern ergonomic features to provide comfort to its users, especially when they strike two parallel arranged cymbals against each other to produce sound. A pair of such cymbal is struck against each other to produce sound. While doing such, the user's hand, wrist, finger, and forearm bears a sudden shock which severely impacts its users in the long run.

This ergonomically designed cymbal provided with a proper handle clad with a shock absorbing rubber grip will prevent sudden shock and protects subsequent nerve damage.

Publication in Science Citation Index (SCI) journals



Evaluation of the Mechanical and Electrical Properties of Spark Plasma Sintered Titanium Carbide Reinforced Alumina Ceramic Composite **G. Selvakumar, S. Ram Prakash, K. Rajkumar,** *Archives of Metallurgy and Materials, 66 (3) Pp. 831-838, 2021*

Spark Plasma Sintering (SPS) is identified as a suitable technique to prepare the alumina titanium carbide composite to overcome the difficulty in fabricating it through other consolidation method. The present work focuses on the fabrication and characterization of a series of titanium carbide reinforced alumina ceramic composites using a spark plasma sintering process. The titanium carbide reinforcement on the alumina matrix is varied between 20 and 35 wt.%, in order to improve the electrical conductivity and fracture toughness of the composites. The particle size of the starting powders at received and ball milled conditions was analysed through Particle size analyser and Scanning Electron Microscope (SEM). Microstructural analysis revealed that the TiC reinforcement is uniformly dispersed in the sintered composite. XRD report showed that α -alumina and titanium carbide were the two dominant phases without the formation of any reaction phases. Further, the correlation between mechanical and physical properties of the prepared composite was investigated as a function of TiC. Various fracture toughening indicators like crack deflection, bridging and branching were analysed by Vicker's indentation method. Electrical resistivity of the sintered compact decreases proportionally with the increase in titanium carbide constituents. Maximum density (98.80%) and hardness (20.56 GPa) was obtained for 30 wt. % reinforced composites. Almost 40% improvement in fracture toughness is noted for 25 wt. % reinforced composites. This work demonstrates the synthesis and fabrication of alumina titanium carbide composites at low temperature via SPS resulted in obtaining an intact compact with improved mechanical and electrical properties.





N. Lenin, M. Siva Kumar, G. Selvakumar, Application of Conceive, Design, Implement and Operate (CDIO) Strategy for the Development of Engineering Education in Indian Perspective', Journal of Education, Trustees of Boston University, Sage, <https://doi.org/10.1177/00220574211016446>, 2021.

Indian education system has faced many reforms and changes right from Gurukula education system in Vedic age to the present outcome-based education system. There lies a wide gap between industries and institutions in India due to the lagging of quality graduates. To bridge the gap, the outcome-based education system has been implemented widely in India. Still, an effective approach that reforms the education system is needed to fulfill the needs of industries. Worldwide, large numbers of universities have adopted Conception, Design, Implementation, and Operation (CDIO) approach in view to produce quality graduates. At this juncture, it is required to analyze and evolve the fruitful strategies in implementation of CDIO approach in Indian engineering education scenario. In the present work, the need of CDIO implementation has been critically analyzed and presented. Furthermore, the present Indian engineering education system has been analyzed on various levels. The implementation strategies have been proposed in two categories as macro and micro levels that are required by the government bodies. The requirements for implementing CDIO are briefed based on institution, faculty and students levels. In addition, the bottlenecks in implementation of CDIO are studied, and the tactics to overcome the same are also discussed elaborate



MS. CYNTHIA JOY FROM III YEAR MECH 'A' SEC. HAS BEEN CHOSEN AS MECH. ENGG. ASSOCIATION-STUDENT PRESIDENT FOR THE YEAR 2021-22, BASED ON HER ALL-ROUND PERFORMANCE (ACADEMIC, CO-CURRICULAR AND EXTRA-CURRICULAR ACTIVITIES).

External Recognition



Dr. N. Lakshmi Narasimhan, Associate Prof/Mech Received the **Best Paper Award**, for his paper presented during the Virtual International Conference on Recent Trends in Clean Technologies for Sustainable Environment (CTSE 2021), Organized by the Dept. of Chemical Engg., SSNCE. The title of the paper is "Role of Phase Change Materials (PCMs) With Nanoparticle Additions on Their Charging/Discharging Characteristics: Experimental Studies" with Gowdhaman N. as the first author and **Dr. N. Lakshmi Narasimhan** as the second as well as Corresponding Author.



Dr. A.S Ramana, ASP/Mech. delivered a lecture on "Green Buildings" in Virtual FDP organized by the Department of Mechanical Engineering, Er. Perumal Manimekalai College of Engg., Hosur on 28.05.2021.



Received best paper award - **Dr. M. Selvaraj**, Experimental Investigation on vibrational characteristics on vinyl ester /glass fibre composite with polyurethane layer, International conference on recent advances on manufacturing research, SRM Institute of Science and Technology, 15-16 April 2021.

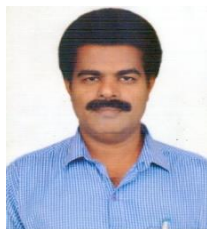
Dr. S. Vijayan has presented a paper entitled Analysis of Supply Chain management in BoP Markets in the international conference on Recent Advances in Manufacturing Engineering Research (ICRAMER 2021) organized by SRM Institute of Science and Technology, Kattankualthur, Tamilnadu during April 15-16, 2021 and received the **best paper award** for his paper.



Dr. Satheesh Kumar Gopal delivered an invited talk on the title 'Robotics project ideas & Patenting' in the One Day Workshop on Robotics and Automation - The Expected Skills, Organized on May 24, 2021 by Dr. Lakshminarasimhan N jointly with M/S Roboram as a part of AICTE-IIPC activities.

Faculty Writeup

Mr. NAGARAJAN S, Lab Instructor writes



Completed Alison – Courses

1. ISO Management System Audit Techniques and Best Practices
2. Manufacturing Strategy - Achieving World Class Manufacturing
3. Introduction to the Learning Process for Teachers and Trainers

Webinars Attended

1. Attended the Webinar "Distinguished Lecture Series on Energy Efficiency" by Dr. Ashok Sarkar, Senior Energy Specialist & Team Leader - Energy Efficiency Projects, The World Bank and Organized by CII – Godrej GBC on 03/05/2021
2. Attended the Webinar "Five tips to reduce stress, raise your energy and improve your mental wellbeing" By IMechE on 14/05/2021
3. Attended the webinar on "The World Has Changed: How to Inspire Others to Back Your Dreams ", "How to Stop, Delay and Even Reverse Aging" and "How to Think Clearly in a World That Has Changed" by TEDx Gateway on 14/05/2021, 21/05/2021 and 22/05/2021 respectively.
4. Attended the Webinar "Home Management of Covid-19 for Children and Families" and "Continuity of Education: A Major Challenge in 2nd Surge" by National Institute Disaster Management, Delhi, on 20/05/2021 and 26/05/2021 respectively.
5. Attended the Webinar "How to Deal with the Battle of the Mind" and Applied Knowledge is Power" by Mindselo E-Learning, Goa on, 21/05/2021 and 22/05/2021 respectively.
6. Attended the Webinar "Women in 21st Century Indian Literature: Contemporary Issues and Perspectives" Organised by Department of English Harsh Vidya Mandir (P.G.) College, Raisi, Haridwar, on 24/05/2021.
7. Attended the Webinar "Computers in Foundries" by Department of Information Technology, New Prince Shri Bhavani College of Engineering and Technology, Chennai on 26/05/2021
8. Attended the Webinar "Get Career-Ready with the Skills Employers are Looking for" by - Dhawal Sharma who is a Skills Transformation Consultant at Coursera, on 27/05/2021.

Invited lecture delivered through online by Dr. S. Suresh Kumar

On 21st May 2021, Dr. S. Suresh Kumar has delivered a guest lecture titled "Introduction to Design Thinking". The workshop was organized by Sri Eshwar College of Engineering, Coimbatore. The importance of design thinking and its various applications were discussed.

Around 60 participants attended the workshop. The workshop invitation and a sample snap shot are given below.

Brief about Design Thinking: Design thinking (DT) was popularized by the Silicon Valley design company IDEO, and its applicability to a wide range of challenges and solutions. Design thinkers aiming to balance what is desirable from a user's point of view with what is feasible with technology and viable from a business factors perspective. The general overview of design thinking begins to reveal the five principles such as (i) Empathize (ii) Define (iii) Ideate (iv) Prototype (v) Test. DT mainly considers that, the best designs are human centered. Putting human beings at the center of the process helps us create and maintain humanity as we innovate and move forward. In addition, it also believes that, framing the problem is the foundation to the design. Starting with the right question(s) may bring the exact solution.



One Day Online Workshop on “Arduino for Beginners”

Organized by the Dept. of Mechanical Engineering, SSNCE.

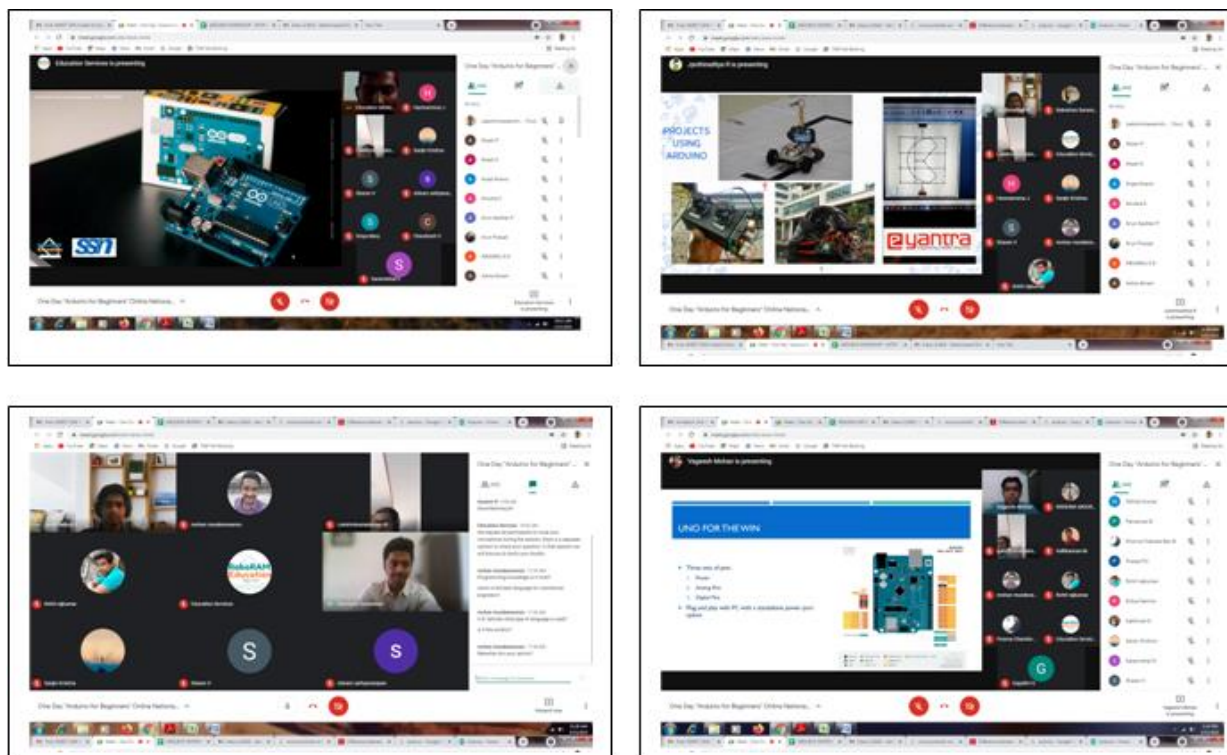
In association with

M/s Roboram, Nagercoil, TN, India.

Coordinator: Dr. N. Lakshmi Narasimhan, Associate Prof/Mech, SSNCE.

A One-day National Workshop on Arduino for Beginners was organized by the Department of Mechanical Engineering jointly with M/s Roboram, Nagercoil on May 15, 2021. The event was part of our AICTE-IIPC activities. About 40 participants across the country had participated in this Online workshop and made the event lively. As a coordinator, I am extremely thankful to Mr. Sriram Nagarajan, the invited speaker from M/s Roboram, Nagercoil and special thanks to Mr. Rakeshan S. (our Alumnus of Mech, 2017 batch), Mr. Jyothiraditya R. (our Alumnus of EEE, 2019 batch and Presently with Caterpillar India) and Mr. Vageesh M. (our Alumnus of EEE, 2017 batch and presently with SVP Lasers India) for their insightful lectures. The workshop covered the basic aspects of Arduino with a glimpse on some interesting projects using Arduino Uno. The workshop had a detailed demo during the Afternoon session on the programming using Arduino Uno IDE. The workshop was well received and the feedback was very encouraging. I thank our Management, Principal and HoD/Mech for the support and encouragement towards the conduct of the programme. Due thanks to M/s Roboram for joining with us to conduct the workshop in the lines of activities agreed upon under the MoU signed with our institution. My special thanks

to all the participants and student placement coordinators of present Third Years (Batch 2022) for the solid support. Shown below are the glimpses of the Workshop.



One Day Online Workshop on “CFD Fundamentals - Theory and Practice”

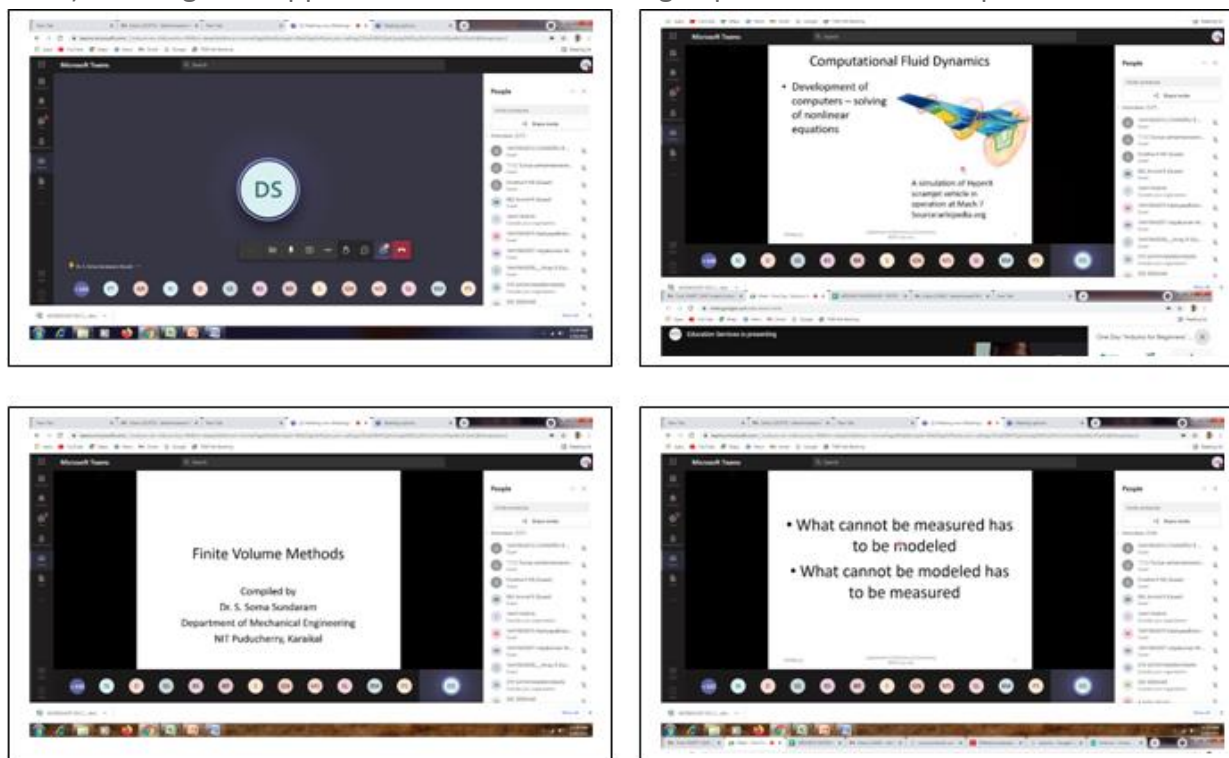
Organized by the Dept. of Mechanical Engineering, SSNCE.

(As part of our Institution’s Innovation Council (IIC) Activities)

Coordinator: Dr. N. Lakshmi Narasimhan, Associate Prof/Mech, SSNCE.

A One day National Workshop on “CFD Fundamentals – Theory and Practice” was organized by the Department of Mechanical Engineering on May 18, 2021. The event was part of our activities under the Institution’s Innovation Council (IIC) established at our campus. There was an overwhelming response to this Workshop right from the Registration. About 557 participants across the country had responded to the call and registered formally. About 360+ had participated on the day and made the workshop very memorable. The Workshop commenced with an address by the Coordinator on the essential fundamentals of CFD. Followed was an invited talk on Finite Volume Methods by **Dr. S. Somasundaram**, (Faculty on Contract with NIT Puducherry, Karaikal). The complete afternoon session was dedicated for a live demonstration of Ansys Fluent (a CFD software) by Dr. N. Lakshmi Narasimhan (coordinator) jointly with his Ph.D. Scholar Mr. Amalesh T. As a coordinator, I am extremely thankful to Dr. Somasundaram and Mr. Amalesh for the support extended. A very encouraging feedback from about 360+ participants showed that the workshop was well received. I thank our Management, Principal and HoD/Mech

for the support and encouragement towards the conduct of the programme. Due thanks to Dr. S. Suresh Kumar, ASP/Mech for the timely support in Organizing this event under IIC. My special thanks to all the participants and student placement coordinators of present Third Years (Batch 2022) for the great support. Shown below are the glimpses of the Workshop.



One Day Online Workshop on “Robotics and Automation- The Expected Skills”

Organized by the Dept. of Mechanical Engineering, SSNCE.

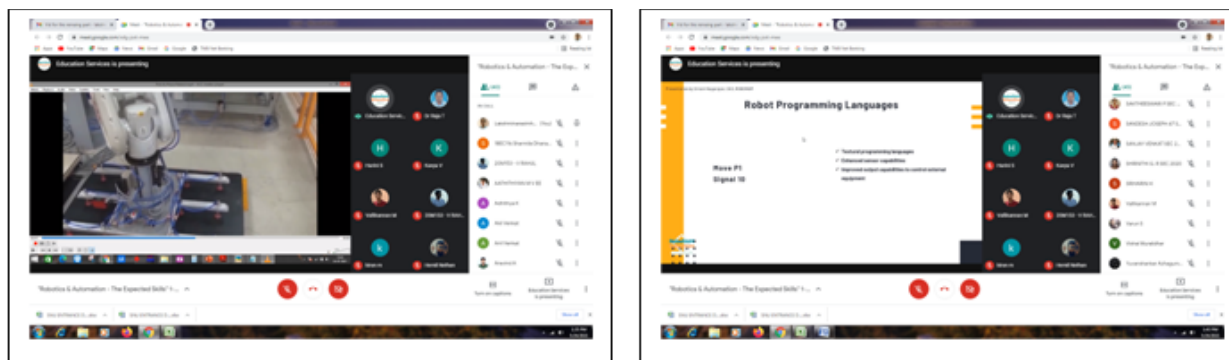
In association with

M/s Roboram, Nagercoil, TN, India.

Coordinator: Dr. N. Lakshmi Narasimhan, Associate Prof/Mech, SSNCE.

A One day National Workshop on “Robotics and Automation – The Expected Skills” was organized by the Department of Mechanical Engineering jointly with **M/s Roboram**, Nagercoil on May 24, 2021. The event was part of our AICTE-IIPC activities. About 46 participants across the country had participated in this Online workshop and made the event lively. As a coordinator, I am extremely thankful to Mr. Sriram Nagarajan, the invited speaker from M/s Roboram, Nagercoil and special thanks to **Dr. G. Satheesh Kumar** (Associate Professor/Mech, SSNCE) for his wonderful talk. The workshop covered the basic aspects of Robotics and Automation with a deep coverage on live projects, skills needed and patenting of innovative ideas/projects on

Robotics/Automation. The workshop was well received and the feedback was very encouraging. I thank our Management, Principal and HoD/Mech for the support and encouragement towards the conduct of the programme. Due thanks to M/s Roboram for joining with us to conduct the workshop in the line of activities agreed under the MoU signed with our institution. My special thanks to all the participants. Shown below are the glimpses of the Workshop.



Publications in Scopus and Other monthly Activities

Sweta Singh, Neeraj Kanwar, **Divya Zindani**, Vinay Kumar Jadoun, Decision making approach for assessing the suitable hybrid renewable energy based microgrid system for rural electrification in India, Materials Today: Proceedings, 2021.

Gobivel K, **Vijay Sekar KS**, Prabhakaran G, Impact of cutting parameters on machining of Ti-6Al-4V alloy: An Experimental and FEM approach, International Journal for Simulation and Multidisciplinary Design Optimization, 12(2), 1-7, 2021.

Dr. M S Alphin, served as a Resource person for AICTE-Sponsored Online Short-Term Training Program (STTP) on " VIBRATION ANALYSIS AND MEASUREMENTS" to be held during 03.05.21 to 08.05.21. Delivered the lecture in the topic on VIBRATION CONTROL between 02.00 PM to 03.30 PM on 07.05.21 (Friday).

Dr. N. Lakshmi Narasimhan, Associate Prof/Mech successfully conducted a One Day National Workshop on "Arduino for Beginners", on May 15, 2021.

Dr. N. Lakshmi Narasimhan, Associate Prof/Mech, conducted a One Day National Workshop on "CFD Fundamentals - Theory and Practice" on May 18, 2021.

Dr. N. Lakshmi Narasimhan, Associate Prof/Mech Organized a National Level One Day (Online) Workshop on "Robotics and Automation - The Expected Skills" Jointly with M/s Roboram, on May 24, 2021.

Dr. D. Ananthapadmanaban, Associate Professor was Invited as External examiner for final year project viva on May 6th,9. 30A.M-3. 30 P.M at Sairam Institutions (Autonomous).

Dr. L. Poovazhagan, ASP/Mech, invited as an external examiner for the final year UG-Mechanical Engineering - Major project of SRMIST, Potheri (Online mode, 26.5.21-28.5.21).

Anand Ronald. B, Sharun. V, "A review on machining of austempered ductile iron (ADI) using different conventional machining process", International Conference on Recent Advances in Manufacturing Engineering Research (ICRAMER 2021), Virtual, SRM Institute of Science and Technology, Kattankulathur, 15 - 16 April 2021

Dr. N. Lakshmi Narasimhan presented a paper titled, "Studies on the Thermal Performance of a Commercial Iron-Box" during the Virtual International Conference on Recent Trends in Clean Technologies for Sustainable Environment (CTSE 2021), Organized by the Dept. of Chemical Engg., SSNCE. The Main author of the paper is Vishnu Srinivasa Prasad V., and co-authors are M. Viswanathan, V. Sharveshwaran and Dr. N. Lakshmi Narasimhan (Corresponding Author).

Dr. N. Lakshmi Narasimhan presented a paper titled, "Role of Phase Change Materials (PCMs) With Nanoparticle Additions on Their Charging/Discharging Characteristics: Experimental Studies" during the Virtual International Conference on Recent Trends in Clean Technologies for Sustainable Environment (CTSE 2021), Organized by the Dept. of Chemical Engg., SSNCE. The first author of the paper is Gowdhaman N. and the second author is Dr. N. Lakshmi Narasimhan (Corresponding Author). The paper received the Best Paper Award.

V.Vetriselvan, **D.Ananthapadmanaban**, C.Manimaran, C.Sakthivel presented a paper entitled Fault assessment of 3 phase flame proof induction motor at the International Conference on Recent Advances in Manufacturing Research, ICRAMER 2021 during April 15 th and 16th,2021.The organizers were SRM Institute of Science and Technology,Kattangulathur.

Muhammed Abraar, **D.Ananthapadmanaban**, presented a paper entitled Modelling of Conventional tyres with different 3D printing materials, at the International Conference on

Recent Advances in Manufacturing Research, ICRAMER 2021 during April 15th and 16th, 2021. The organizers were SRM Institute of Science and Technology, Kattangulathur.

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Dr.S.Vijayan has presented a paper entitled Analysis of Supply Chain management in BoP Markets in the international conference on Recent Advances in Manufacturing Engineering Research (ICRAMER 2021) organized by SRM Institute of Science and Technology, Kattankualthur, Tamilnadu during April 15-16, 2021

Dr. M. Selvaraj, Experimental Investigation on vibrational characteristics on vinyl ester /glass fibre composite with polyurethane layer, International conference on recent advances on manufacturing research, SRM Institute of Science and Technology, 15-16 April 2021.

Dr G Selvakumar, Associate Professor / Mech has conducted DC meeting (Online mode) for his Part-time research scholar Mr Thomas Victor M (Reg.No.1514289203) on 10 May 2021 at 3:00 pm. In this meeting, a panel of experts for constituting oral examination board is recommended.

Dr. K. Babu, Asso. Prof./Mech conducted Ph.D. public viva-voce examination of his part-time scholar Mr. Velmurugan (1514299890) on 15-Apr and the scholar has defended the exam successfully.

Dr G Selvakumar, Associate Professor / Mech, attended 6 days online FDP on "Advances in Machining, Manufacturing and Computing Process", conducted by Mechanical Engineering Department, FET- Jain (deemed-to-be-University), Bangalore from 24.5.2021 to 29.5. 2021.

Dr. K.S. Vijay Sekar, Associate Professor, Mechanical Department attended a one-week Virtual Faculty Development Programme on "Creative and Innovative Teaching Strategies for The New Normal" under SSN –Institute Innovation Council (IIC3.0) during May 24-31, 2021.

Dr G Selvakumar, Associate Professor, Mech has attended 2 days (15 & 16 May 2021) training program on 'Six Sigma white belt' conducted by VIRUKSA MFG SOLUTIONS PVT LTD.

Dr. D. Ananthapadmanaban, Associate Professor, attended a webinar Introduction to intellectual property rights-Types and Examples, delivered by Dr.Senthil Madasamy,,IIC Innovation Ambassador on IPR, Dr. Mahalingam College of Engineering and Technology, Pollachi. Date attended is May 19th,2021 ,9.00 to 10.15 A.M.

Dr. D. Ananthapadmanaban, Associate Professor attended an International webinar entitled The Guru talks by Dr. Mukesh Doble, Professor Emeritus I.I.T,Madras.The talk, entitled Fate of Polymers in Marine Environment, was hosted by I.I.T,Madras Alumni Association on May 22nd ,2021 from 6.30 to 7.45 P.M .

Dr. D. Ananthapadmanaban, Associate Professor attended a webinar on Computers in Foundries. The talk was given by Dr. T. R. Vijayaram, Research Professor, Bharath University on May 26th,2021 between 1.00 and 2.15 P.M.

Dr. K.S. Vijay Sekar, Associate Professor, attended a webinar on "Designing Metallic Nanocomposites for Multifunctional Applications" organized by Dept. of Chemical Engineering, SSNCE on 14.05.2021.

Dr.D. Ananthapadmanaban, Associate Professor attended an International Webinar on Designing Metallic Nanocomposites for Multifunctional applications on 14/05/21 between 10.00 and 11.15 A.M.

Dr.D. Ananthapadmanaban, Associate Professor attended an international webinar organized by the Confederation of Indian Industry on Combating Current Covid wave and fortifying the future on May 18th,2021 from 11.30 to 12.45 P.M. The speaker was Professor Ramanan Lakshminarayanan, Director and Senior Fellow, Centre for Disease Dynamics Economics and Policy, Washington DC and New Delhi

Non-Teaching Staff Activities

Mr. Subramani R /Lab Assistant/mech, "ALISON COURSE COMPLETED Mechanical Engineering - Plate Heat Exchanger Fundamentals"

Mr. M. Giridharan /Lab Assistant / Mech attend webinar on 'computers in foundries' on 26.05.2021

Student Write-up

STUDENT ACTIVITIES – March

S.No	Date	Activity done during this month
1)	08/03/2021	Sai Charen V, 3rd year, Attended a Workshop on Electric Vehicles.
2)	08/03/2021	Santhosh Kumar V, 3rd year, Completed an In-plant training at Madras Fertilizers Limited.
3)	30/03/2021	Nazir Hussain A, 3rd year, He was volunteering in some of the NGO activities which were conducted by SSN College of Engineering.
4)	19/03/2021	Cynthia Joy, 3rd year, She presented her Internally funded project on the Design and Fabrication of a Fire Fighting Robot at the international conference ARAM 2021.
5)	19/03/2021	Shivani Sathyanarayan, 2nd year, She presented a paper on " Detection of Impact Induced crack in various GFRP and Hybrid Composite using near field Microwave NDT method" at the international conference ARAM 2021.
6)	19/0/2021	Aditya Bucha, 4th year, He won the Best Paper Presentation award in ARAM 2021 for the paper titled "Robot for detecting and eradicating the agents of malaria, dengue and zika virus"
7)	16/03/2021	Roshan Ram Dayal D, 4th year, He was a part of the organizing committee of ARAM 2021.

STUDENT ACTIVITIES – April

S.No	Date	Activity done during this month
1)	03/04/2021	Sriram M, 2nd year, He won first prize in Tamil Essay writing in Instincts conducted by Saaral Tamil Club.
2)	15/04/2021	Adithiya M B, 3rd year, He completed a project on "Performance of Regenerator System" at NLC India Limited TSII Expansion.
3)	15/04/2021	Deepak Babu R, 3rd year, He completed a project on "Performance of Regenerator System" at NLC India Limited TSII Expansion.
4)	15/04/2021	Dhilip K.M., 3rd year, He completed a project on "Performance of Regenerator System" at NLC India Limited TSII Expansion.
5)	11/04/2021	Nithish Kumar R S, 3rd year, He won the Ironman of Tamil Nadu title and Mr. South India title in bodybuilding competition title in the senior and junior level respectively.

STUDENT ACTIVITIES – May

S.No	Date	Activity done during this month
1)	15/05/2021 18/05/2021 17/05/2021	Tharun, 2nd year, ➤ Attended One Day Workshop on “CFD Fundamentals - Theory and Practice.” ➤ Participated in the One Day National Workshop on “Arduino for Beginners” ➤ Completed an online course on Python Basics for Data Science in EdX.
2)	18/05/2021 19/05/2021	Kalaiselvan K, 3rd year, ➤ Attended One Day Workshop on “CFD Fundamentals - Theory and Practice.” ➤ Participated in the webinar on “Introduction to Intellectual Property Rights (IPR), Types and Examples” organized by the Institution’s Innovation Council of Sri Sivasubramaniya Nadar College of Engineering.
3)	06/05/2021	Sabareesh A, 3rd year, Completed a six weeks online training on AutoCAD in Internshala Trainings.
4)	18/05/2021	Sairam M, 3rd year, Attended One Day Workshop on “CFD Fundamentals - Theory and Practice.”
5)	09/05/2021	Sam Sherin Raj S, 3rd year, Secured Third place in TIER -3 Bi-cycle Assembly and Maintenance conducted by SAE India.
6)	09/05/2021	Senthil Kumar.S, 3rd year, Secured Third place in TIER -3 Bi-cycle Assembly and Maintenance conducted by SAE India.
7)		Sharan V, 3rd year, Completed a six weeks online training on SolidWorks in Internshala Trainings.

Kalaiselvan K, III-year, writes...

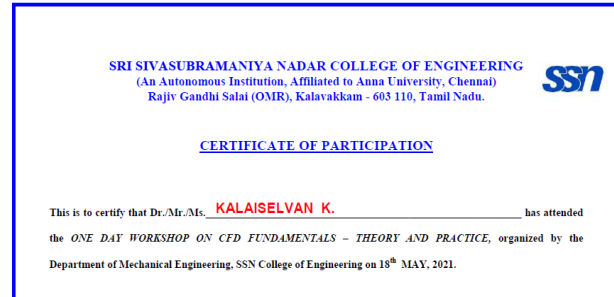
Review on webinar about Intellectual Property Rights (IPRs)

I participated in a webinar on **Intellectual property rights, Types and Examples** organized by the Institution Innovation Council of our college. The webinar was about the IPRs, types of IPRs such as patents, trademark, copyrights, trade secrets and geographical indications and examples related to them. The webinar helped me to understand the importance and need of IPRs to an engineer. With the increasing focus on innovation, research and cross-border collaborations, there is a need to learn about intellectual property rights (IPRs) to safeguard the inventions. The IPRs helps an engineer to not only protect his valuable ideas and thus create an 'intellectual property' but also to promote its licensing and development in the larger interests of society. This webinar was very useful and helped me understand the importance of IPRs and need to protect my idea or innovation through IPRs in future.



Review on workshop about Computational Fluid Dynamics (CFD)

I attended the one-day workshop on **CFD FUNDAMENTALS - THEORY AND PRACTICE** organized by Department of Mechanical Engineering of our college on 18 May. Before attending the webinar, I had less prior knowledge about CFD, but in the workshop they taught me the concepts of CFD, pipe flow analysis on Ansys fluent software, and a whole demonstration of Ansys fluent software. The workshop covered the CFD from its basics to its complete application in the software both theoretically and practically. After completing the workshop, I installed the software and tried some of the basic fluid analysis problem and it was interesting and knowledgeable. The importance of learning CFD is that it has a widespread application in HVAC (heat, ventilation & cooling), petroleum, train design, turbo machinery etc. CFD will be useful to perform thermal analysis for mechanical systems, provide design engineering services for components and subsystems, and provide technical expertise in problem resolution, cost reduction, and quality improvement of a product. In future, CFD will be useful to me for doing internships and project based on fluid dynamics.



Tharun S, II-year, writes...

WORKSHOP – ARDUINO FOR BEGINNERS

ARDUINO FOR BEGINNERS was a workshop organized by **SSN College of Engineering jointly with ROBORAM** on 15th May 2021. The objective was to give an insight into Arduino and introduce audience about its applications in real life. The workshop was divided into two sessions. The morning session was from 10 AM to 12.15 PM. It included introduction, software configuration, Role of C++, Integration of Arduino and C++. ROBORAM took great initiative in implementing deeper level knowledge on basics to learners. A summary of morning session lectures includes:



Arduino is a micro controller. A controller is a device that receives input and share result to output devices. The real applications of this device are effective in IOT, Automation, Machine learning. This micro controller consists of 3 main components. They are INPUT/OUTPUT connecting devices, RAM and Processor each performing a specific role and are embedded in a PVC Board. RAM is volatile and stores temporary data. Program memory in the set of instructions that are to be uploaded to board to establish communication between Arduino and the material. Oscillator maintain frequency or response time. A/D convertor is used to convert analog to machine values. DC power jack is the battery source. Regulator is used to convert high voltage signals to a specific voltage allowed by the board. Fuse safeguard devices from short circuit. Motor or sensor connected to Arduino is given power supply from the pins present on the board. We choose Arduino micro controller board because of its cheap price in the market and also the size is pretty compact. We also learnt about the types of pins and its purpose. Digital pins work on digital pulses. It can only receive low or high signal at a time. There are 14 digital pins. Analog pins are based on sensors connected like ultrasonic sensor. Values range from 0 to a specific number and

we receive multiple values to be converted to digital values. There are 6 analog pins. There is also something called PWM pins that converts digital signals to analog waves and change pulse width accordingly. Programming can also be done in high level using circuit serial programming header. We also learnt about Arduino IDE installation and its specifications. IDE software is available in the Microsoft store. We use it to program different applications like motors, sensors and upload it in hardware. Arduino board has various components that enables the board to do specific tasks. Flash memory does compilation and verification process. EEPROM store program to run at any time and it is non-volatile memory. D13 LED verify board is working or not. RESET SWITCH simply resets the program. We also have various languages like USART, SPI that initiates communication between PC and devices. In a nutshell we need an IDE software, Arduino board and cable type A/B to get started with Arduino.



consists of void setup and void loop. Void setup determines which pins are setup. Void loop repeats the instructions again and again. Making a LED blink twice with a delay of 1 sec every cycle using Arduino UNO was the first demonstration. It involved writing instructions in IDE and connecting cable to port to establish communication. The next program was to detect light intensity. By this time, we got to know about some of the important parameters used for coding.

We also got to hear some of the inspiring stories of the motivational speakers who endured and successfully accomplished getting things right in their area of interest. The workshop was ended by Dr. N. Lakshmi Narasimhan featuring the key benefits of acquiring knowledge on robotics sector as an engineer.

Overall, the entire workshop gave us kind of head start to get ourselves involved in doing mini projects using Arduino UNO and exposed us to theoretical and practical knowledge on the basics.

A Sabareesh, III-year, writes...

Are you wondering what to do during the lockdown? Why not do an online course to hone your skills? After wasting months watching my favorite series and movies, I finally decided to do something better. That's when my friend Tharun.V.S informed me about the online courses offered in "Internshala." At first, I was reluctant to do a paid course in Internshala, but later he convinced me about the quality of the program.



We decided to do a course on "AutoCAD" and there are three main reasons for it. One, the software easily runs on computers with minimum specs; two, this software is majorly used in the automobile field which is our field of interest; three, the course was available at a 50% discount.

We loved the course because we were able to do what was being taught simultaneously on our PC. The course was structured very well and the teacher explained everything perfectly. The



whole experience of using the software gave us joy since it was very intuitive and user-friendly.

I never thought I'd say this, but I loved doing the assignments. All

the assignments were fun and I enjoyed making the 2-D and 3-D models. Overall, it was an amazing experience and I learnt a lot.

Sam Sherin Raj, III-year, writes...

Hello, I am Sam Sherin Raj S from 3rd Year Mechanical - C. Myself and Senthil Kumar got **third place in SAE TIER-3 Bicycle Assembly and Maintenance Competition**. Basically, this competition is for the students who are seeking knowledge in bicycle engineering, young enthusiasts who would like to do all of their own maintenance work for the cycle, anyone who is interested in taking bicycle repair & overhaul as part of daily work, bicycle assemblers who need to improve their assembly skills. We got **first place in both SAE TIER-1 (College level) and SAE TIER-2 (Divisional level) BAM**.

In SAE TIER-3 (Main Convection), we were put to the test for our technical skills through a quiz based on the engineering and assembly of a bicycle. Several teams were shortlisted after the quiz based on the score. In the 2nd round, we had to do a presentation on Re-Engineering a bicycle.

We focused on Robust Hybrid Cycles (Human powered + Electric) and came up with innovative assembly techniques. We



also designed a methodology for the assembly of a Hybrid-cycle. Our assembly technique had impressed the judging panel as our method was feasible, easy to deploy and even a novice can build a cycle. We also tried to model a few main parts using Fusion 360 to check and simulate the behavior of the structure.

My sincere thanks to our SSN SAE Club Faculty Advisor, Mr. B. Jayakishan, for promoting our college into the student convection and for this great achievement. I would also like to thank Mr. Chidambaram, Mr. Marimuran, Mr. Karthik, and Mr. Sanjay Mohan for hosting SAE TIER-1 events.



CERTIFICATE

STUDENT CONVENTION 2019-2020 TIER III

SAEINDIA Congratulates Student Member **SAM SHERIN RAJ.S** of Sri Sivasubramaniya Nadar

College Of Engineering for securing **Third** Position in TIER III Bi-cycle Assembly and Maintenance

Competition held online.



CERTIFICATE

STUDENT CONVENTION 2019-2020 TIER III

SAEINDIA Congratulates Student Member **SENTHIL KUMAR S** of Sri Sivasubramaniya Nadar

College Of Engineering for securing **Third** Position in TIER III Bi-cycle Assembly and Maintenance

Competition held online.

Mech Marvel

It's a bot, it's a snake, it's....!

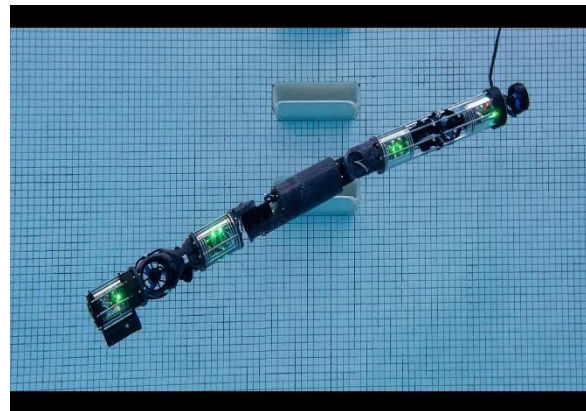


Scientists at Carnegie Mellon University (CMU) have spent a number of years developing modular snake-like robots for all kinds of purposes, and the latest adaptation sees its serpent-inspired tech headed underwater. The team has developed a submersible SnakeBot capable of navigating tight spaces, which the scientists hope will see it used to inspect ships for

the military, to or investigate underwater pipes for blockages.

The latest version of CMU's SnakeBot is dubbed the Hardened Underwater Modular Robot Snake (HUMRS). The team has pieced together modules that include thrusters, buoyancy control systems, rotary articulation devices, inspection sensors and manipulation grippers to form an underwater version. The HUMRS was recently plunged into the pool at the university, where it made its way through underwater hoops to demonstrate its maneuverability.

One of the more promising applications for the submersible SnakeBot, in the eyes of the team, is to carry out inspections of navy ships out at sea. When these vessels incur damage, divers are sent to investigate them or they are hauled into a dry dock or back to port. Having a robot on hand that could be deployed to assess the damage instead would be far more efficient.



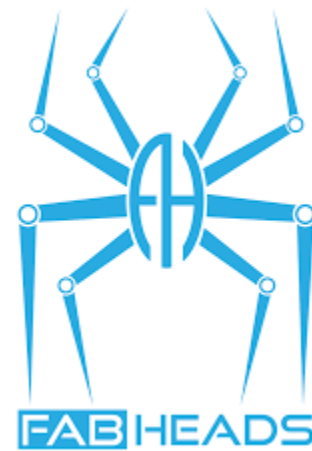
"The distinguishing feature is the robot's form factor and flexibility," says Nate Shoemaker-Trejo, a mechanical and mechatronics engineer at CMU. "The smallest versions of regular submersibles are usually blocky, one-piece arrangements. The robot snake is narrow and jointed. The end result is that an underwater robot snake can squeeze around corners and into small spaces where regular submersibles can't go." Source: [Carnegie Mellon University](#)

Corporate Story

Fabheads Automation Pvt. Ltd.

Fabheads is a hardware startup creating automation equipment to manufacture high-end carbon fiber parts. The company's primary focus areas presently are Aerospace, Automobile and Biomedical sectors.

Fabheads specialises in composites part manufacturing sector. Also in tandem, Fabheads focuses a lot of their resources on developing better, more reliable, automated fabrication technologies for the composites sector. Ever since incorporation, Fabheads has gone on to become the first company in Asia with in-house developed fiber 3D printing capabilities, got several awards for their innovative work in the composites fabrication sector and continue to keep setting themselves newer and bigger targets leading to an eventual complete automation in the composite manufacturing sector.



Fabheads' in-house developed composite fabrication technologies allows exploration of a myriad of material combinations – be it with other plastics or metals or different fibers. The expertise to use multiple fabrication processes one after another – like 3D printing followed with layup/compression molding, or compression molding followed with 3D printing or other combinations – gives them a unique edge in fabricating extremely versatile and economical composite parts. Fabheads, besides being specialized in advanced automated technologies, also is capable of various methods of traditional hand layup processes including Vacuum and Infusion assisted processes.

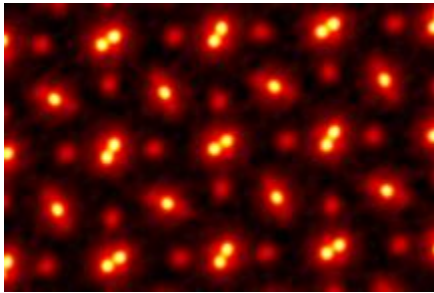


Fabheads features FibrBot™ series of 3D printers – their in-house developed 3D printers with carbon fiber printing capabilities. FibrBots opens up a plethora of possibilities – new materials, new fabrication capabilities, high precision, and highly economical fabrication processes. FibrBot™ gives the maximum strength for the weight 3D printed over any other 3D printing processes.

Fabheads Automation Pvt. Ltd. Has been the recipient of several noteworthy accolades, including #startupindia 2020, the Startuppreneur award 2018, and the Dare To Dream Award 2019.

Amazing Innovation 193

IMAGING BREAKTHROUGH



Researchers at **Cornell University** have snapped the clearest images of atoms ever taken. Aided by new noise-reducing algorithms, the images are of such high resolution that, the team says, they almost reach the ultimate limit possible. The images were taken of atoms in a **praseodymium orthoscatate (PrScO₃)** crystal, zoomed in 100 million times.

The atoms can be clearly seen as bright dots, surrounded by red “clouds”, which, according to the researchers, are blurring created by the jiggling of the atoms themselves. The unprecedented clarity comes from a combination of things. First is the general technique, known as **electron ptychography**, which works by scanning the patterns of how electrons scatter off the target material. The detector itself – known as an electron microscope pixel array detector (EMPAD) – uses a blurred beam to first capture a wider range of data. Then, that blurring is corrected through a series of algorithms that reconstruct the data.

Source: <https://newatlas.com/physics/highest-resolution-atom-image-electron-ptychography/>

Amazing Innovation 194

‘TRANSFORMERS’ MAY NOT BE FICTION ANYMORE



The **Japanese Aerospace Exploration Agency (JAXA)** is planning to send a tiny transforming ball-shaped robot to the lunar surface. Once it arrives, the device will gather data for the development of a future crewed exploration rover. The robot is being developed by JAXA **in conjunction with**

Sony, Doshisha University, and toy manufacturer the Tomy Company. Lunar exploration company **ispace** has been contracted to transport the robot to the surface, using its commercial Moon lander in 2022. While being transported to the Moon, the micro rover will be in its ball configuration, during which it will measure a mere 80 mm (3 inches) in diameter. Upon reaching the surface, the 250-g (8.8 oz) robot will be commanded to transform into its “running form,” at which point it will open up, and the two halves of the protective sphere will act as the robot’s wheels. Its mission will be to capture images and data on the lunar surface.

Source: <https://newatlas.com/space/jaxa-transforming-robot-lunar-surface/>

Alumni Writeup

Alumni Activity for May

Name of the event: GD with alumni

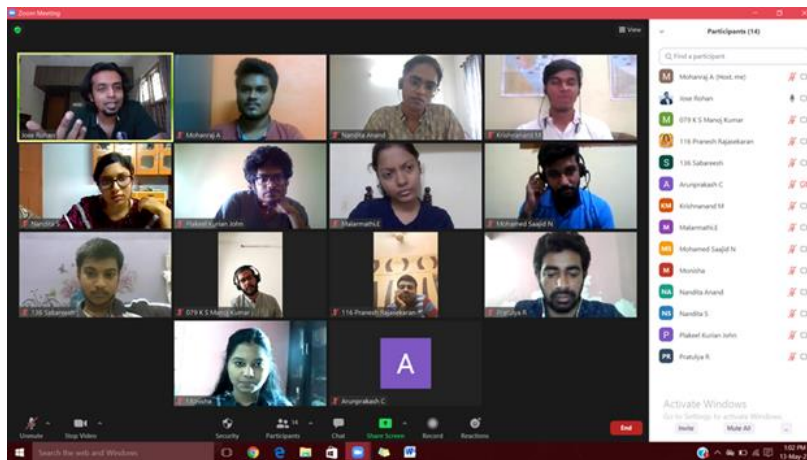
Date(s) of the event: 13-05-2021 & 30-05-2021

Number of persons attending: 13, 12

Faculty Coordinator: Dr. C. Arun Prakash

Student Coordinators: Mohanraj. A, Sabareesh. A.

Event 1



On May 13, the ALUMNI ASSOCIATION of the Mechanical Department conducted its first event, “GD with alumni”. There were 13 attendees from the 3rd year mechanical B section. Mr Arul Noble Jose Rohan was the chief guest/ alumnus speaker for the event.

It was a very interactive event and there were a lot of takeaways from it. Mr. Rohan introduced the concept of GD to the participants and explained how one should prepare themselves for a GD round in an interview process.

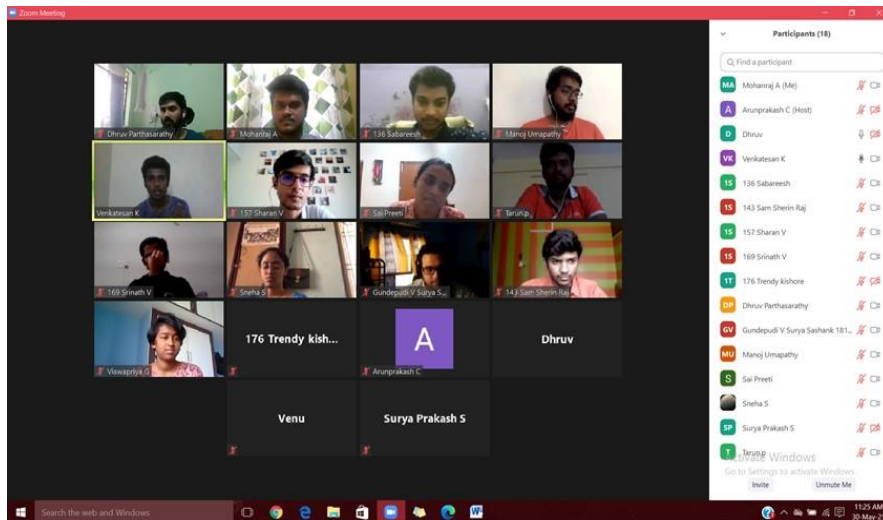
Some of the key takeaways were:

1. Speak confidently and politely
2. Make sure the point one is making has validity to the discussion
3. It is not advisable to rebut others' points
4. 2-3 points must be prepared during the preparation time.
5. Afterwards, the event moved to the next stage where the participants attended a mock GD with the topics chosen by Mr. Rohan. There were three topics and three rounds, where the participants were split into two groups, who spoke for and against the topics. The topics were,
6. Reasons for less number of core placements for mechanical engineering compared to other departments.
7. Impact of increasing no of engineering colleges on the society.
8. Is India ready to move towards E-vehicles?

The participants put forth some valid points and Mr. Rohan gave his feedback after each round and the event concluded with a Q&A session.

Event 2

On May 30, another batch of students from the 3rd year mechanical C section participated in the GD. The alumni chief guests/ speakers were Miss Mythreyi Ragothaman, Mr. Dhruv Parthasarathy and Mr. Manoj Umapathy.



The event started with an ice-breaker session where students introduced themselves and answered two questions that were asked to them. Post this session, the format for the GD was introduced and the topic was given to them. The topic was **“Brainstorm ideas to help an offline retailer with**

1000 stores across the country to increase revenue post-covid.” The students were instructed to brainstorm ideas among themselves and finally summarize them. Post this, the alumni gave individual feedback to help everyone improve in GD. Some of the key takeaways were,

1. Make sure when one is pointing out facts, they are 100% true. It is always better to put forward a generalised idea.
2. Give others an equal chance to speak and listen to everyone.
3. It is fine to let the others know that you didn't understand what they just said.
4. The points must be on-point.
5. Speaking a lot might give a bad impression.

The event concluded with a Q&A session where students asked many doubts regarding placements and higher studies and the alumni answered every question with patience.

Research news and Forthcoming event

Department of Science and Technology (DST) – International Co-operation division

India Russia joint research Call 2021

Last date for submission of the project proposal: **15.06.2021**

<https://onlinedst.gov.in/Projectproposalformat.aspx?Id=India%20Russia%20Joint%20Research%20Call%202021>

National Aeronautics and Space Administration

NASA Johnson Space Center

2020 Human Exploration Research Opportunities (HERO)

Last date for submission of the project proposal: **30-Jul-2021**

<https://www.grants.gov/web/grants/search-grants.html>

Department of Health and Human Services National Institutes of Health

BRAIN Initiative: Pilot resources for brain cell type-specific access and manipulation across vertebrate species (U01 Clinical Trial Not Allowed)

93.173 — Research Related to Deafness and Communication Disorders

93.213 — Research and Training in Complementary and Integrative Health

93.242 — Mental Health Research Grants

93.273 — Alcohol Research Programs

93.279 — Drug Abuse and Addiction Research Programs

93.286 — Discovery and Applied Research for Technological Innovations to Improve Human Health

93.853 — Extramural Research Programs in the Neurosciences and Neurological Disorders

93.865 — Child Health and Human Development Extramural Research

93.866 — Aging Research

93.867 — Vision Research

Last date for submission of the project proposal: **19-Oct-2021**

<https://www.grants.gov/web/grants/search-grants.html>

Department of Health and Human Services National Institutes of Health

NIAID Research Education Program (R25 Clinical Trial Not Allowed)

Allergy and Infectious Diseases Research

Last date for submission of the project proposal: **07-Dec-22**

<https://www.grants.gov/web/grants/search-grants.html>



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Prof Mohammad Osman Tokhi
Robotics and Head of Cognitive Systems Research
London South Bank University, UK



Prof Tariq Pervez Sattar
TWI Chair and Director of the London South Bank Innovation Centre,
London South Bank University, UK



Ahmad Athif Mohd Faudzi
Director, Centre for Artificial Intelligence & Robotics
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Brochure





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The Second International Conference on

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23rd-25th September 2021

About the Conference

School of Mechanical Engineering, VIT Chennai (India) in association with School of Computing, Engineering and Digital Technologies, Teesside University (UK) are organizing a three-day Virtual International Conference on Robotics, Intelligent Automation and Control Technologies (RIACT 2021) to take place on 23rd, 24th and 25th of September 2021. The main objective of RIACT 2021 is to provide a virtual platform to researchers and practitioners from both academic institutions and industries to meet and share cutting-edge developments in the areas of Robotics, Intelligent Automation, Mechatronics, Adaptive Control, Industry 4.0, Smart Energy and associated disciplines. This virtual conference also provides an opportunity to exchange research ideas and a platform to develop partnerships and collaborations.

Key Topics & Publication

• Robot Design, Development & Control • Mobile & Autonomous Robots • Rehabilitation Robots & Devices • Agricultural, Space & Underwater Robots • Medical & Service Robots • Collaborative Robots • Intelligent Automation Systems • Intelligent Fault Detection and Diagnosis • Robust/Adaptive Control of Robotic System • Motion Planning and Control • AI in Robotics, Industrial IoT • Cognitive Automation • Image Processing & Vision Systems • Actuators & Sensors • Mechatronic Systems • HMI, SLAM, ROS • CAD/CAM/CAE • Vehicle Control Applications • Deep learning in Robotics • Smart Energy System and Smart Buildings • Smart Manufacturing and Industry 4.0.

**** MDPI Robotics journal with discounted OA fees ****

**** Journal of Robotics and Control or Scopus Indexed Proceedings - No Publication Fee ****

Keynote Speakers



Prof M. Osman Tokhi
UK



Prof Daniel Schilberg
Germany



Dr Asuman Suenbuel
USA



Prof Alamgir Hossain
UK



Prof Minoru Sasaki
Japan



Prof Fausto Pedro Garcia Márquez
Spain



Prof Hiroshi Sakai
Japan



Dr Hao Su
USA



Dr Milena Y Krumova
Bulgaria



Dr Attila Vidacs
Hungary



Ing Erik Pekkeriet
Netherlands



Prof Vikram Kapila
USA

Dates to Remember

Abstract Submission : 5th August 2021
Full Length Paper Submission : 12th August 2021
Notification of Acceptance : 5th September 2021
Conference Registration : 12th September 2021

Registration Details

Paper Presentation : Rs.1000/- (IND), USD 100 (Foreign)
Only Participation : Rs.500/- (IND), USD 50 (Foreign)
Submit your paper to <https://easychair.org/cfp/RIACT-2021>
Further queries icriact@gmail.com or www.riact.co.in

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Inspiring Life Stories

Follow Your Heart



As a child, Monty Roberts was the son of a horse trainer and moved from stable to stable, from ranch to ranch, training horses. The boy's schooling was constantly interrupted. One day, when he was a senior, his teacher asked him to write about what he wanted to be when he grew up. He did not hesitate and wrote a seven-page paper about his aim to be an owner of a horse ranch. It was a detailed paper with the location of buildings, stables and even a house plan. Two days later he received his paper back with an F on the front page.

After class he asked his teacher why he received such a low score. The teacher told him, "This dream is unrealistic for a boy like you, who has no money, no resources and who comes from an itinerant family. There is no possibility that you will reach this goal."

Then the teacher offered him the opportunity to rewrite the paper with a more realistic attitude. The boy went home and asked his father how he should respond.

His father told him, "This is a very important decision, so you must come to your own conclusion. After several days, the boy brought the same paper to his teacher.

No changes were made. He told his teacher, "Keep the F and I will keep my dream."

Monty Roberts went on to own a 4000 square foot house in the middle of 200-acre horse ranch. He framed the paper he wrote and hung it over his fireplace.

Moral: Always remember to follow your heart and never listen to those who do not believe in your ability to achieve your dreams.

Source: <https://www.advance-africa.com/always-follow-your-heart.html>

Pic Source: <https://pixels.com/featured/horses-on-the-ranch-ink-drawing-vii-irina-sztukowski.html>

Corporate Wisdom

From the desk of Ramki — Aspire to Inspire

Happy Morning

Most of the people living are one among the crowd. The joy and purpose of living life is in standing above the crowd, and in walking a different path. It's a choice you have to make.

Make the decision right now.



- Do you want to be just anybody in life, or do you want to be somebody in life?
- If you live like everybody, you will become like everybody.
- Walk the path everybody walks, and you'll reach the destination everybody reaches. No problem.
- Walk a different path and you'll create a different destination for yourself.
- If you keep thinking the same way you will keep doing the same stuff.
- If you keep doing the same stuff, you will keep getting the same results.
- Expecting your life to change without changing the pattern of your thoughts is immaturity.
- Doing the same stuff but expecting newer results is sheer ignorance.
- If the effect has to change, then the cause must change.
- If I have to reach where I have never reached, then I will have to take the path that I have never taken.
- If I have to achieve what I have never achieved, then I will have to do the things that I have never done before.
- If I have to accomplish what no one has ever accomplished, then I will have to do what no one has ever done.

If you want to be a pathfinder, then you must be willing to be a path breaker. You cannot have a breakthrough unless you are willing to break with. If you cannot run ahead of others, then dare to run completely in a different direction with the belief that one day this world will follow you.

Think differently, take risk and let us go the other way.

#WishingMostAndMore

Have a wonderful day

R. Ramakrishnan

Email: r.ramakrishnan@gmrgroup.in

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