

ASPIRE



ACHIEVEMENTS IN SPORTS, PROJECTS, INDUSTRY, RESEARCH AND EDUCATION

DEPARTMENT OF MECHANICAL ENGINEERING

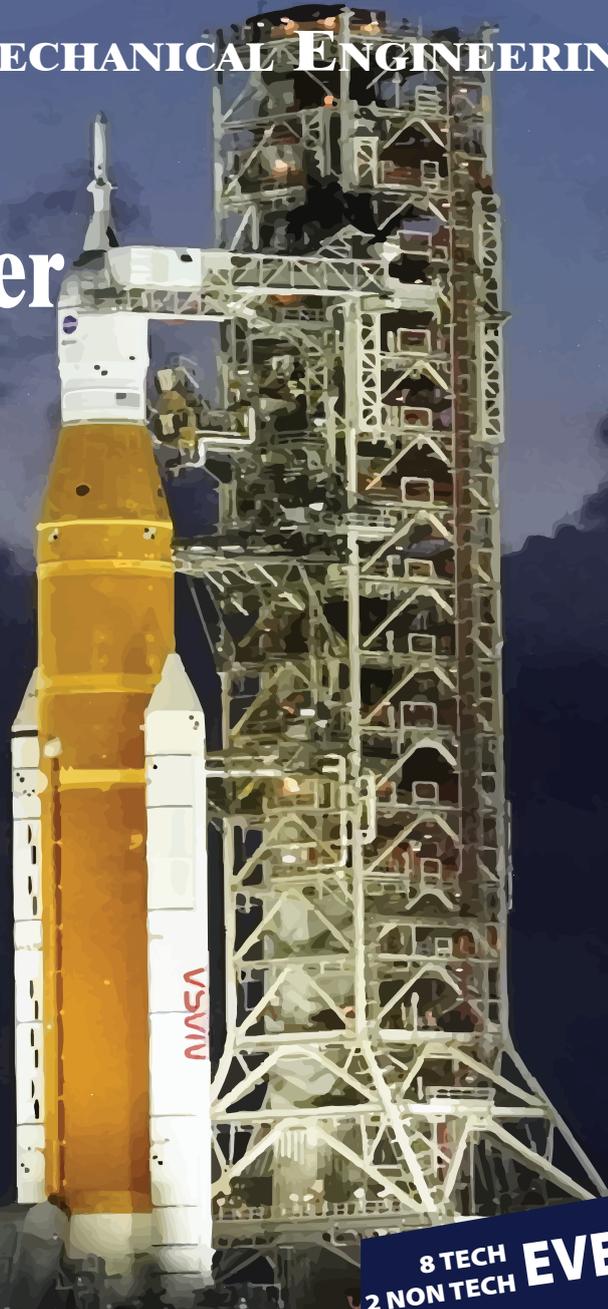
Monthly

VOLUME - 12

ISSUE - 12

DECEMBER - 22

Newsletter



8 TECH EVENTS
2 NON TECH

 **invente'22**
Create. Elevate. Sustain.
1st & 2nd DECEMBER

SSN

**SRI SIVASUBRAMANIYA NADAR
COLLEGE OF ENGINEERING**

RAJIV GANDHI SALAI (OMR), KALAVAKKAM, CHENNAI, TAMIL NADU, INDIA



FROM THE HOD'S DESK...

It's Aspire time again and here is our December edition!!!

In the Nobel Laureates section, we profile John F Clauser who was awarded the Nobel Prize for his work on Quantum Entanglement.



It is a matter of pride for us that IITM incubation cell is partnering SSN incubation foundation and handholding our entrepreneurial ventures. In sports, we profile S. Aditya who received a citation and cash prize from Tamil Nadu CM for his national roller-skating silver medal and highlight our students who have won AU zonal medals and qualified for nationals. It was a matter of honour that our institution hosted Dr Raj Reddy, a Turing and Padma Bhushan awardee and a pioneer scientist and world class researcher in the field of Artificial intelligence.

Our students continue to shine in the placements with offer from companies such as Hyundai, Dow chemicals, Caterpillar and L&T and Comcast. Our faculty endeavor to push the boundaries of research through publishing in high impact factor journals. Prof Ganesh Samudra visited the department to look at our progress in EFP labs as well as our NBA preparations and gave us qualitative inputs.

I had an opportunity to deliver an online talk at the invitation of Curtin University, Dubai on Finite element methods. A Mech team led by Dr Vimal has been shortlisted to the next stage of the Boeing build camp at IITM for their proposed framework on Digital twins. Muthuvel, Mech student shares his experience of representing SSN in a ten-day NSS camp at ABVIMAS Manali. We profile our alumni connect programs and mech marvels.

Best wishes for a lively December,

K.S. Vijay Sekar | vijaysekarks@ssn.edu.in

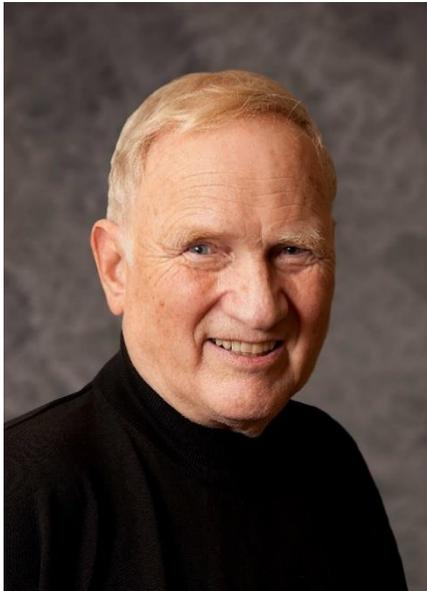


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JOHN F. CLAUSER NOBEL PRIZE IN PHYSICS-2022



John F Clauser was awarded the Nobel Prize for his work in experiments of Quantum Entanglement along with two other physicists “Alain Aspect” from France and “Anton Zeilinger” from Austria. The development of experimental tools have laid the foundation for a new era of quantum technology.

Clauser graduated from the California Institute of Technology in 1964 with a Bachelor’s degree in Physics. He continued his study of physics at Columbia University, where he earned a Master’s degree in 1966 and a Doctorate in 1969.

In quantum entanglement two particles are in a single entangled state such that measuring a property of one particle instantly determines that same property in another particle. For example, two particles are in a state where one is spin-up and the other is spin-down. Since the second particle must have the opposite value of the first particle, measuring the first particle results in a definite state for the second particle, notwithstanding the fact that the two particles may be millions of kilometers apart and are not interacting with each other at the time.

In 1964 the Irish-born physicist John Stewart Bell devised mathematical relationships, Bell inequalities, that would be satisfied by a hidden variable theory in which measurement of one particle would not instantly affect the properties of the other particle. Clauser became interested in experimental testing of the Bell inequalities.

Clauser used an apparatus from a previous experiment that used the decay of excited calcium atoms to generate pairs of photons that had opposite polarizations. Each photon was then measured by a polarizer. By measuring the rate of detection of both photons when the angle between the two polarizers was 22.5° , and when it was 67.5° , the values obtained were a clear violation of Bell’s relationship and in accordance with Quantum mechanics.





Campus Update

IIT-MADRAS INCUBATION CELL PARTNERS WITH SSN INCUBATION FOUNDATION!!!

IIT-Madras Incubation Cell (IITMIC) has announced its partnership with SSN Incubation Foundation (SSN iFound), the incubation and innovation wing supported by SSN College of Engineering.

Through the partnership, IITMIC aims at supporting SSN iFound in developing an ecosystem that nurtures a "building culture" and provides incubation support to promising entrepreneurial ventures. This collaboration is also in line with IITMIC's 10X initiative of Accelerated Incubation of achieving 1,000 incubations by 2030, with the aim to strengthen India's grassroot entrepreneurial talent by identifying, collaborating, and incubating startups from partner institutes/incubators in Tier 2,3&4 cities .

As a first step in this direction, IITMIC will support SSN iFound in setting up 'Build Club'- a student-only run club that aims at creating a culture of building products among students. IITMIC will support SSN iFound in conducting training, motivational & experiential talks, and events to create excitement and strengthen its entrepreneurial ecosystem. IITMIC and SSN iFound will also periodically select startups with the potential for co-incubation. Each co-incubate will receive value-added support, including mentorship, networking and training support, seed funding and connections to angels/VCs, incubation space, and various business support services- the first step to self-reliant India.



SOARING HIGH, FOR SKY IS NOT OUR LIMITS – OUR CHAMPS!!



Mechanical Engineering student **Aditya** and others honored by CM for his national medal winning effort in roller skating, with a prize of Rs 2.5 lacs. Marching on with our college's pride-inspiring many in their long journey. The CM of Tamil Nadu, Stalin felicitated the prizes to the winners, and motivated them for more future medals on 24.11.2022 in Chennai.

MURUGAPPA SHIVALINGAM, IN 4TH YEAR OF MECHANICAL ENGINEERING, PAVED HIS WAY TO THE NATIONALS. WISHING YOU ALL SUCCESS AND LUCK FROM OUR COLLEGE.





Another feat achieved by our mechanical engineering students in table tennis-

Anna university recently conducted a state level championship, in which our department students participated and brought laurels to our department and college. As the image speaks more than words proving their hard times with this success. The people (from the left to right side) in the image are Vijaya darshan, Akshay Jay Krishnan, Pradeep, and Pranav.

NATIONAL EDUCATION DAY!!

National Education Day is celebrated every year on **November 11** as it marks the birth anniversary of Maulana Abul Kalam Azad, India's first Education Minister after Independence. Our college celebrated national education day on Nov 18, 2022. This event was organized by IISC (Institution's Innovation Council) SSN-IISC 5.0 alongside with Saaral Thamizh Mandram, SSN. They conducted elocution to celebrate this event. The topic for the competition is *"Importance of education in India's growth"*. Students gave away their speeches which resonated with the sound importance of education. And the winners were felicitated with cash prizes.



RAPID FIRE WITH DR. RAJ REDDY!!

The SSN Management conducted a casual technical talk show, titled 'Fire Side Chat with Dr. Raj Reddy' by Sameer from Mechanical Engineering department along with 3 other students, with the esteemed Dr. Raj Reddy who was a pioneer in Computer Science specializing in Speech Technology and Artificial Intelligence as we know it today.





Dr.Dabbala Rajagopala Reddy was the first Ph.D. holder in Computer Science, graduating from Stanford University in 1966, and has also been the first recipient of the Turing Award from Asia in 1994. Speaking at 85 years old, Dr.Raj Reddy was the go-to to answer some of the eye-opening questions the interviewers had in mind. Venturing into a field when no one knew how far it would advance, Dr.Raj Reddy certainly stands as a person we should look forward to when in times of uncertainty. Discussing his childhood, he looks back at himself. He says he was the first graduate from Anna University with a Civil Engineering degree and no idea how to look further into his career. His first computer experience in Australia opened up new ways to him about the innovations he would later uncover. The one-hour talk show saw through various facades of Dr.Reddy who also talked into the future of technovations for humanity.

Department Update

Placement Update -Mech 2023 batch

Total Placement Count: 59

Varshini A, Varun S, Vijay M, Roshan Natarajan, Niranjana M, Barath Ramajaya were selected in Shell.



Shell is one of India's most diversified international "Energy companies" with over 10,000 employees and a presence across upstream, integrated gas, downstream, renewable energy, and deep capabilities in R&D, digitalization, and business operations.





Jinesh G got placed in Caterpillar.



Caterpillar is the world's leading construction and mining equipment manufacturer, diesel and natural gas engines, industrial gas turbines, and diesel-electric locomotives.

CATERPILLAR®

Akilesh S got placed in Larsen & Toubro



Larsen & Toubro is an Indian multinational engaged in EPC Projects, Hi-Tech Manufacturing and Services. It operates in over 50 countries worldwide. A strong, customer-focused approach and the constant quest for top-class quality have enabled L&T to attain and sustain leadership in its major lines of business for over eight decades.



Athulan R, Dev Chaurasia and Aadhithya K got placed in HYUNDAI.

Hyundai Motor India Limited (HMIL) is a wholly owned subsidiary of Hyundai Motor Company (HMC). HMIL is the largest passenger car exporter & the second largest car manufacturer in India. HMIL's fully integrated state-of-the-art manufacturing plant near Chennai boasts advanced production, quality & testing capabilities.



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Athulan R

Dev Chaurasia

Aadhithya K

Anna Mathew, Kavya Velusamy and Sreya Thomas got placed in DOW.



Anna Mathew

Kavya Velusamy

Sreya Thomas

Dow is a large producer of plastics,

including polystyrene, polyurethane, polyethylene, polypropylene, and synthetic rubber. It is also a major producer of ethylene oxide, various acrylates, surfactants, and cellulose resins. It produces agricultural chemicals including the pesticide Lorsban and consumer products including Styrofoam.

Murugappa KS, Inzaman Iqbal, Vivek Sridhar, Dammala S A, Harsh Mishra, Ajith M, Jegan S, Aravindan J, Suryan I got placed in Comcast.



Comcast Corporation, headquartered in Philadelphia, is the largest American multinational telecommunications conglomerate. It is the second-largest broadcasting and cable television company in the world by revenue (behind AT&T), the largest pay-TV company, the largest cable TV company and largest home Internet service provider in the United States, and the nation's third-largest home telephone service provider.

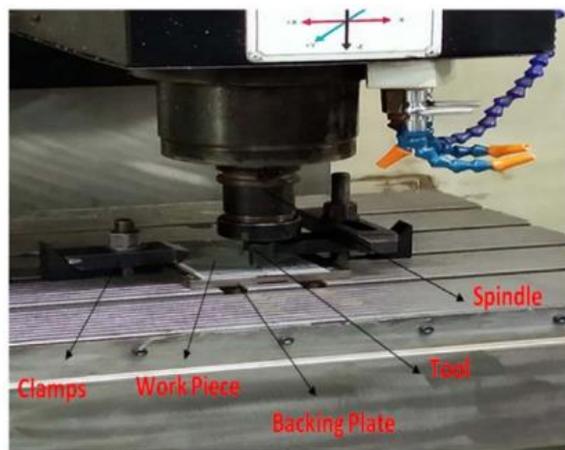
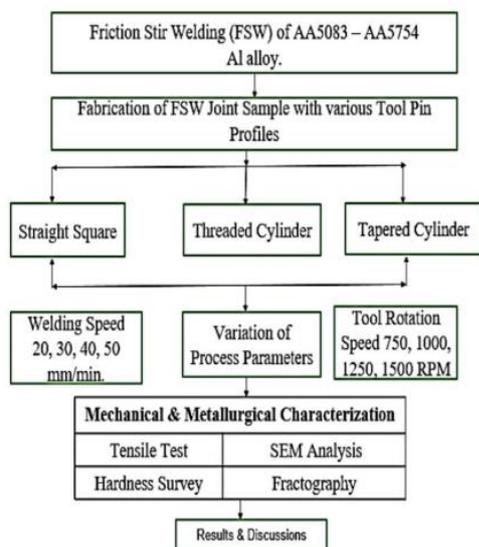




International Journal Publication - SCI /Clarivate Indexed



Kumar, P. Naveen, and K. Jayakumar. "Influence of tool pin profiles in the strength enhancement of friction stir welded AA5083 and AA5754 alloys." *Materials Research Express* 9.3 (2022): 036505. Clarivate Impact Factor: 2.025





International Journal Publication - SCI /Clarivate Indexed



Thangaraja, J., Lars Zigan, and Sundararajan Rajkumar. "A machine learning framework for evaluating the biodiesel properties for accurate modelling of spray and combustion processes." *Fuel* 334 (2023): 126573. Clarivate Impact Factor: 8.035

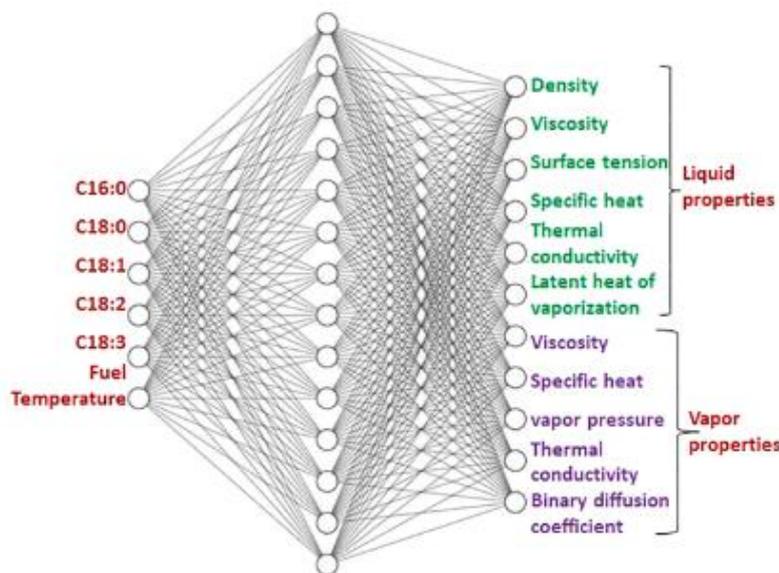


Fig. 1. The proposed ANN architecture for biodiesel property prediction.

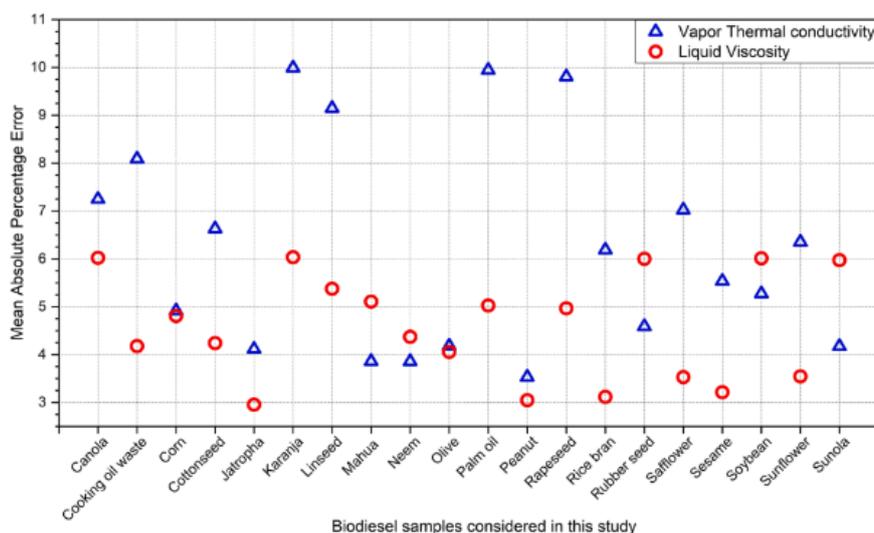


Fig. 13. MAPE values for ANN predicted liquid viscosity and vapor thermal conductivity.





International Journal Publication - SCI /Clarivate Indexed



Vishal, K., and K. Rajkumar. "Dry sliding wear behaviour of Poly Ether Ether Ketone (PEEK) reinforced with graphite and synthetic diamond particles." *Diamond and Related Materials* 130 (2022): 109404. Clarivate Impact Factor: 3.8

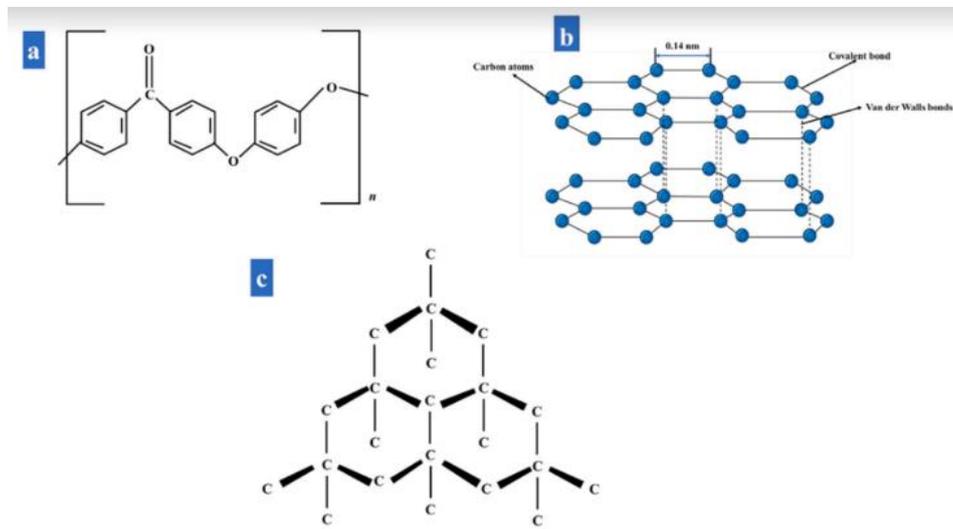


Fig. 1. Chemical structure (a) PEEK, (b) graphite, and (c) synthetic diamond.

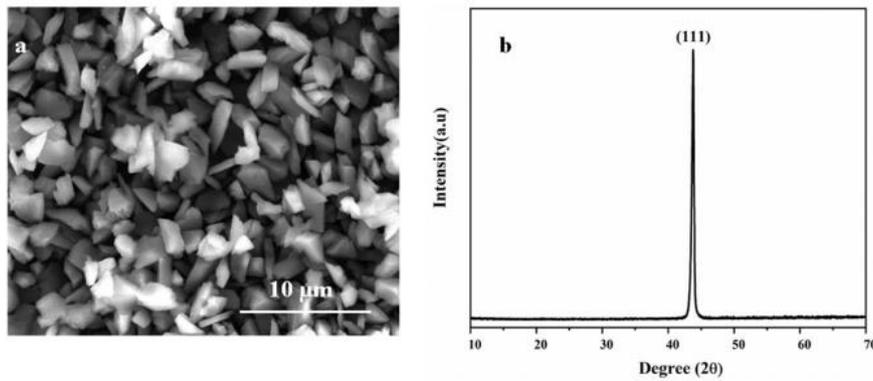


Fig. 2. Synthetic diamond filler (a) morphology revealed by SEM image (b) XRD spectrum.





FACULTY WRITE-UP

FINAL YEAR MECH STUDENTS INDUSTRIAL VISIT



Final Year Mechanical Engineering went for an Industrial Visit to Kerala (Athirapalli-Kochi- Alappey-Vagamon – Kollam – Varkala) 20 Nov 2022 to 23 Nov 2022.

DR. GANESH SAMUDRA VISIT TO THE DEPARTMENT



Dr. Ganesh Samudra Visit to the Department





DR KSV DELIVERS AN ONLINE INVITED TALK TO CURTIN UNIVERSITY, DUBAI!!!

I had an opportunity to deliver an online invited talk on “ An overview of finite element methods” to the Department of Mechanical Engineering at Curtin University, Dubai, on 22nd November, at the behest of Dr Chithirai Pon Selvan, Director, Research at Curtin. The one-hour talk covered the fundamentals of FEM and it’s applications across domains and was followed by a 30 minutes Q&A. Students from all four years attended the lecture which was beamed across their respective classrooms. It was heartening to note the enthusiasm of the students and reflected in their inquisitive questions at the end. In the words of Dr Chithirai “ The insights on Finite Element Methods you shared with everyone were inspiring. Students are highly motivated and very much impressed by your talk. We are extremely grateful to you for making time in your busy schedule” was encouraging. I reciprocated the gesture and thanked him for the opportunity to share my expertise to an eager international audience!



Curtin University

Dubai

CERTIFICATE OF APPRECIATION

This certificate is proudly presented to

Prof. K.S. Vijay Sekar, PhD

from SSN College of Engineering, Chennai, India

for the talk on An Overview of Finite Element Methods

delivered to the students and faculty members of School of Science and Engineering,
Curtin University Dubai on 15-11-2022

Professor John Evans
Pro Vice-Chancellor and President,
Curtin University Dubai

Dr Chithirai Pon Selvan
Director - Research | Head of School - Science and Engineering
Curtin University Dubai





BOEING BUILD BOOTCAMP

Dr.R.Vimal Samsingh, Associate Professor, Mechanical , Muthuvelan(Mech 3 rd year) , Samyuktha(CS 4 th year) have been shortlisted for the Boeing BUILD Boot camp being organized by the IITM Incubation Cell, from December 5-9, 2022.

The Boeing University Innovation Leadership Development (BUILD) program is designed by Boeing India for early-stage start-up entrepreneurs in the country. BUILD aims to encourage young entrepreneurial minds to develop ideas that can be converted into viable business offerings, aligned with Boeing's vision of contributing to India's robust start-up Culture. The submission was accepted from the fields of Mobility, Space, Connectivity, Industry 4.0 Technology, Enterprise digital solutions, Sustainability, Data Analytics/AI

So, the above-mentioned participants who have developed a product on Digital Twins submitted the framework on the title 'Deep Twin' with extended features incorporating AI into the framework developed which enables users to get the real time information of the product life cycle. The steps in the participating for the competition is ,firstly to submit the applications online.

Secondly, the top teams are selected and shortlisted for the BUILD bootcamp program. The contest does not end just there. Boeing provides extended support to the best idea start – ups thereon.

The other associated members in the work are Dr.S.Esther Florence(ECE Associate Professor), Dr.C.Arunprakash(Mech Assistant Professor) and Shivani(Mech 4th year student).

The department wholeheartedly congratulates and wishes luck for all the members.

NON-TEACHING STAFF

Mr. Balasundaram P/ Lab Assistant / Mechanical / participated one day admission duty SSN college of Engineering at CDC building - Online supplementary work counseling work on 28.10.2022 FRIDAY

J. Ponmuthuraja / Machinist Grade - I (Sr.grade) / Department of Mechanical Engineering involved in Online supplementary Counselling duty for First yea B.E/B.Tech 2022-2023 on 28.10.2022





MR.BALASUNDARAM P / LAB ASSISTANT / MECHANICAL / COMPLETED 5 KMS RUNNING IN COMMANDO APP AND GOT OFFICIAL CERTIFICATE FROM SMS HOSPITAL JAIPUR STATE OF RAJESTAN ON 12.11.2022

MR.BALASUNDARAM P / LAB ASSISTANT / MECHANICAL / COMPLETED ALISON COURSE OF ENGLISH WRITING SKILLS ON 17.11.2022 AT 10 AM

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MR.BALASUNDARAM P / LAB ASSISTANT / MECHANICAL / COMPLETED ALISON COURSE OF ENGLISH WRITING SKILLS ON 17.11.2022 AT 10 AM

MOU

An MoU was signed between Viruxsa Manufacturing Solutions pvt. ltd., and Sri Sivasubramaniya Nadar College of Engineering on 28.10.2022. This MoU envisages collaboration for student projects, internships, placements and other activities in Manufacturing, Industrial Practices, Lean/Six- Sigma, and Energy/Design Engineering. Dr. N. Lakshmi Narasimhan, ASP/Mech took the initiative for this MoU.

An MoU was signed between Earthonomic Engineers pvt. ltd., and Sri Sivasubramaniya Nadar College of Engineering on 29.10.2022. This MoU envisages collaboration for student projects, internships, placements and other activities in the areas of Green Buildings and Building Energy Simulation. Dr. N. Lakshmi Narasimhan, ASP/Mech took the initiative for this MoU.

SCHOLAR INFO

Dr. K Jayakumar, Associate Professor/Mech. Engg., conducted final viva for his 4th PhD scholar Mr. Shine K (Reg. No: 1519299711-Part Time) on 10.11.2022.

Dr. L. Poovazhagan, ASP/Mech convened the Ph.D public Viva for his part-time research scholar, Mr. C. Gopinath on 03.11.2022.





Dr. L. Poovazhagan, ASP/Mech. delivered a guest lecture on the topic of "Marine Composites" @ the department of Marine Engineering, SVCE on 14.11.2022.

Dr. S. Rajkumar, ASP/Mech conducted DC meeting for reviewing the thesis evaluation report of his part time research scholar Mr. Surulivel Rajan T on 03.11.22

Dr. K. Jayakumar, Associate Professor, conducted the 4th DC meeting for his PhD. Scholar Mr. Madhan Kumar A (1512299801-Part Time) on 22.11.2022 (Tuesday).

Dr. S. Rajkumar, ASP/Mech conducted a DC meeting for reviewing the thesis evaluation report of his full-time research scholar, Mr. M. Gowthama Krishnan on 24.11.2022.

Dr K.S. Vijay Sekar, Prof & HOD, Mech attended a online DC meeting for Mr. Madhan Kumar, a PhD scholar of SSN Mechanical, registered in Anna University on 22.11.22

EVENTS ATTENDED

Dr. R. Rajeswari, Associate Professor has attended two days online workshop on "Design of Experiments (DOE) by Taguchi method" organized by VIT Vellore on 3rd and 4th November 2022.

OTHERS

M/s. TESPACALIBRATION CENTRE carried out Calibration of flow, temperature, and pressure devices during November 2022. Dr A S Ramana, Asso. Prof., Mechanical Engg. & Mr. S. Nagarajan, Lab Instructor coordinated the activity.

EXTERNAL RECOGNITION

Dr K.S. Vijay Sekar, Prof & HOD/Mech, delivered an online invited talk on " An overview of finite element methods " for Curtin University, Dubai on 15.11.2022





Student Write-Up

S.NO	DATE	ACTIVITY DONE DURING THE MONTH
		<u>SECOND YEAR</u>
1)	25/11/2022	Rakesh Kumar S <ul style="list-style-type: none"> Participated in Markerize event
2)	05/11/2022	Uvaraj G S <ul style="list-style-type: none"> Attended Envision energy festival held at IITM research park through NSS (03/11/2022 to 05/11/2022) Conducted online childhood memory sharing event to celebrate children's day for NSS students (07/11/2022)
3)	02/11/2022	Bhavani <ul style="list-style-type: none"> Volunteering for INVENTE
		<u>THIRD YEAR</u>
4)	27/11/2022	Harish Kumar J <ul style="list-style-type: none"> Completed 2 courses on Coursera: <ul style="list-style-type: none"> ~"Neural Networks and Deep Learning" ~"Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization"
5)	03/11/2022	Jhiviyan Ravi <p>Completed NPTEL course - work system design (P.E)</p>
		<u>FINAL YEAR</u>
6)	15/11/2022	<u>Rufus derrick</u>





7)	15/11/2022	<ul style="list-style-type: none"> Completed Nptel Course On Industrial Safety <p>Shahul Sameer</p> <p>Completed NPTEL course Industrial Safety</p>
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NOW, LET US HAVE A LOOK AT THE VARIOUS STUDENT ACTIVITIES OF THE MONTH

HARISH S, III-YEAR WRITES...



There is no age limit for learning, all you need is the drive and passion. We learned it by seeing a live example: Dr. Raj Reddy. Dr. Raj Reddy is an Indian computer scientist and a winner of the Turing Award. He is one of the early pioneers of artificial intelligence and has served as a faculty member at Stanford and Carnegie Mellon for over 50 years. He was the founding director of the

Robotics Institute at Carnegie Mellon University. In 1994, he became the first person of Asian origin to receive the Turing Award, also known as the Nobel Prize in Computer Science, for his work in artificial intelligence.

We had the wonderful opportunity to watch him in action. The SSN management organized a fireside chat with him, with our principal and president presiding over the event. Four students were chosen as panelists to ask him about his journey and experiences in the



computer science world. Students from various departments were present. And the information we gained from the session was amazing. We got to know about how he, a civil engineering graduate from Anna University, went on to win the most prestigious award in the field of computer science. His journey was amazing, and it taught us that anything is possible. I mean, who would've imagined that someone who was a graduate of civil engineering would move to an entirely unrelated stream and proceed to win the most prestigious award in that field and create history by being the first Asian to do so. What he did prove is that "You are who you Choose to Become".

Following his talk, the audience was encouraged to ask him questions. The audience's participation was generous. A bouquet was then handed to him by our principal. The event was then concluded by a recital of the national anthem.

MURUGAPPA KS, IV-YEAR WRITES



Competition name - Anna University Inter Zonal Badminton Tournament

Team: Murugappa KS (captain). Krithik K. Sidharth B. Shasvat vijay. Hirithick S.

We, the players of the SSN badminton team, have participated and secured second place in the *Anna University Inter-Zonal badminton tournament*. Moreover, we have participated in





the selection trials of the Anna University team for the South Zone Inter-University Badminton Tournament. Hirithick S and I were chosen for the team. I would like to thank

Dr. K. Vijay Sekar and the department faculty for their constant support, which encourages us to achieve more in the future and inspires the juniors.

MURUGAPPA KS, IV-YEAR WRITES



Hi everyone! I've got a dream offer from Comcast. I'm so glad to share my selection and interview process to you all. I had an online assessment followed by two interview rounds and finally a HR round.

1)Online assessment

Here you will have a test on aptitude and coding just like most of the companies.

2)Interview (round 1)

I was shortlisted for this round under the SKY panel. And I was asked few technical questions and more of a general interview question.

3)Interview (round 2)

Based on my answers and skills portrayed in the previous interview I was shifted to a different panel. Again, here they went through my resume and only general questions were raised. Keep in mind that the more they ask generally the more they check on your character more than your technical skills. So, answer with a right attitude and be conscious on your words.

4)HR round





It was like an informal round for me, and they said that I'd be getting the letter of intent in two or three weeks

Alumni Write-Up

P.ARAVINTH PANNEERSELVAM (BATCH 2014) SHARES...

Hey guys. I hope you are all doing great. This is P.Aravinth Panneerselvam from Mechanical Dept (2014-18) batch. I am currently working in the Seoyon Automotive R&D centre as a Design Engineer-Exterior Trims.

On Saturday, October 15, 2022, I arrived at SSN College to conduct a mock technical and HR interview for mechanical students.

I reported to college at 2:00 pm and came to know that mechanical students are not available as they have core placement going on.

So I decided to take an HR interview for the rest of the students. I interviewed 4 candidates, taking 30 to 35 minutes for each student. Started with general HR questions to get a hold on the profile and gradually raised up the standards of questions to access skills and knowledge gained.

During the mock HR interview process, I accessed the student's

1. Skills
2. Communication
3. Strengths and Weaknesses
4. How much they can contribute to the organisation
5. Way of projecting themselves
6. How they approached the problem to come up with solutions.

After the assessments, I shared my experience of HR interviews with them and corrected where they had gone wrong. I gave them what I had accessed and shared ideas as to where they could improve.

HR interviews are the gateway to landing a job. To my surprise, I have seen many technically sound candidates fail in HR interviews. So give it some weightage and practise before HR interviews.

General approach to the HR interview for freshers:

1. Neat and unfolded resume in the file/folder.
2. Appropriate dressing sense.





3. Greeting the panel while coming in and going out of the interview.
4. Look confident.
5. Salary Negotiation: Say as per industry standards. Never negotiate unless you know the job market.

6. Never beat around the bush for an answer. Say I don't know the answer; I will look it up and come back. Such answers show that you are a go-getter and work out a solution instead of waiting it out.

Then, students need to have updated LinkedIn/ Naukri profiles and attach them as links in the resume.

Learning one or two languages other than our native tongue and English allows us to stand out from the crowd. During my days during placements, there was a misconception that it had to be their lucky day to get placed in a company. NO IT'S NOT. Never ever depend on luck, and always remember that luck favours those who work hard and smart and make their own luck.

Students need to understand that their growth doesn't depend on the company but rather on their mindset. The initial phase of the job must concentrate on acquiring knowledge and upskilling yourself. Gone are those days when everyone thought getting placed in core companies was possible only during college placements. In this digital age, acquiring critical skills and knowledge helps us land the job we want out of college placements. Try to use platforms like NPTEL, Udemy, and Skill Lync to upgrade yourself and widen your portfolio for better placements. The more you practice in peace, the less you bleed in war. Try to practice HR interviews more, particularly the "introduce yourself" part.

Learning is a two-way street. If anyone has an idea on where I can improve my writing and presentation skills, or if you have some queries regarding my career (Mechanical) kindly reach out to me using the below contact details.

Finally, I would like to thank the SSN alumni association for giving me this opportunity to guide our students.

Looking forward to contributing more.
Keep learning and keep growing.

Mob: 9840542314

Email ID: aravinth.iaf@gmail.com



ALUMNI TALK ON PREPARATION STRATEGIES FOR GOVERNMENT EXAMS...

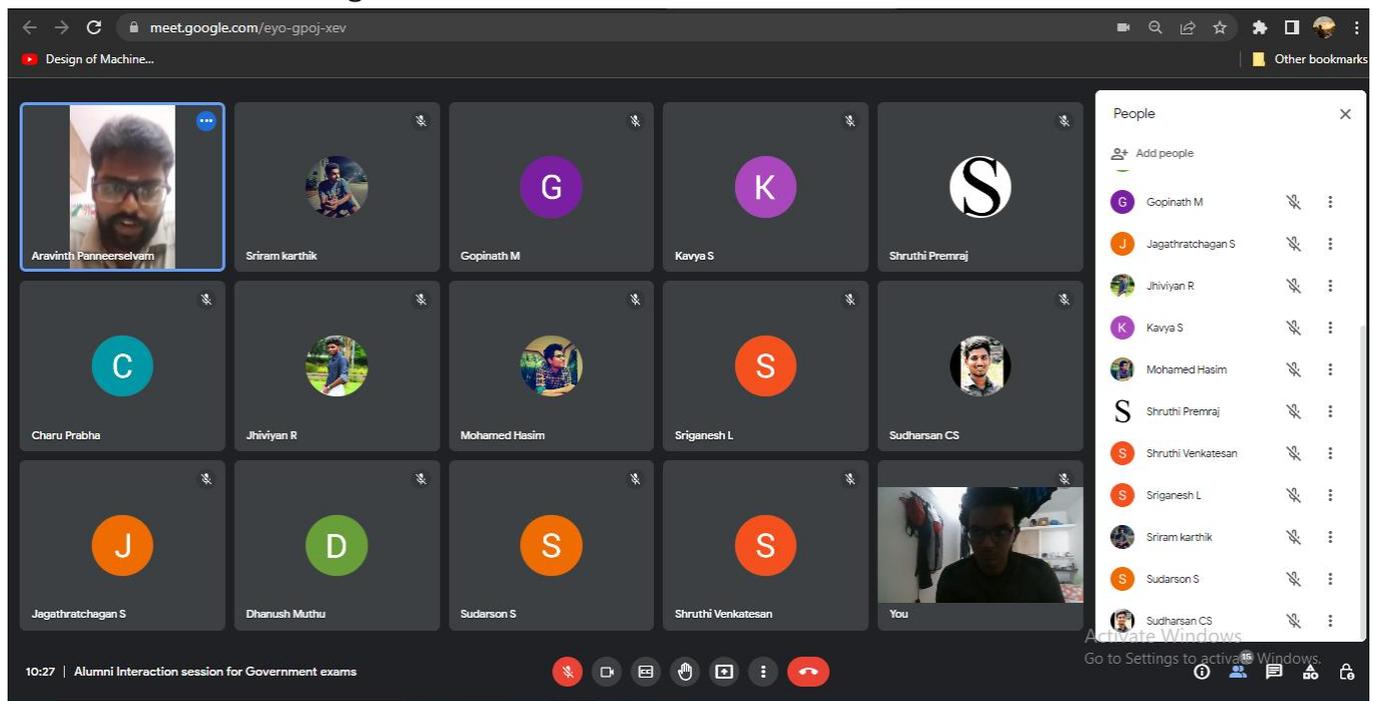
Date: 06/11/2022

Faculty Co-ordinators: Dr C Arun Prakash

Student Co-ordinators: Sriram M, Sricharan S

Alumnus: Aravinth Paneerselvam

On November 6, 2022, the Alumni Association of the Mechanical Department conducted an online interactive session regarding the preparation strategies for government exams. The session was headed by Mr. Aravinth Paneerselvam (2018 batch). He was working as a quality engineer at Ashok Leyland and is currently working at Seoyon E-HWA Automotive R&D. He also prepared extensively for government exams like UPSC and was requested to pass on his knowledge to the current batches.



The session was begun by Mr. Aravinth briefing the students about the various government exams that are there: combined defence exams, UPSC, combined engineering services exams, NDA, and so on. He told us that the first step to approaching the exam is to be absolutely clear with the syllabus. Then, it's important to go through the 11th and 12th NCERT syllabus for UPSC. He asked us to focus on the Mughals, the Jain, and Buddhism for history. He asked us to select one newspaper (the Hindu or the Indian Express) to learn about the current issues in our country. He also focused on going through the past 7-8 years' worth of





question papers in order to understand the types of questions that were frequently asked. He mentioned certain websites like Visionias, Nextias that were helpful for his preparation.

He talked about the mistakes he made during his preparation. He stressed the following points:

- It's advisable to not take a year off and prepare for government exams. Rather, it's best to get a job and prepare for the exams as well. This will help you be disciplined in your preparation.
- Do not reveal your desire to pass government exams, as this may cause you unnecessary mental stress.
- Limit your resources for preparation.

For the rest of the session, there was a Q&A session with the speaker to clarify any doubts about the session. The speaker concluded his session by mentioning the importance of determination, courage, consistency, and perseverance in clearing these exams.

MR. MADHIVANAN SHARES TALK ON ENTREPRENEURSHIP

Date: 18th November 2022

Time: 11 am

Venue: Mechanical Seminar Hall

Faculty Coordinator: Dr C Arun Prakash

Student Coordinators: Sricharan S, Sriram M (4th Year)

Maalolan B, Mothimukesh. K, R Vaitheeshwaran , Venkatanathan M.A (3rd Year)





Guest: Mr. Madhivanan

SSN Mechanical Alumni Association organized a session on Entrepreneurship and Motivational talk by Alumni Mr. Madhivanan, Founder and Director of GoalMotiv Academy. Mr. Madhivanan gave a talk on "Five things everyone should know about Entrepreneurship," aiming to motivate us to transform our idea into a startup. The event was successful enough to attract as many as 50 students. The event began at 11 a.m. sharp. The guest prepared his own PowerPoint, which was displayed.

He began his session with a small interaction in which he asked the difference between an "entrepreneur" and a "businessman." To motivate participants to overcome stage fright and interact, he announced that the participant who interacts the most will be rewarded. A second-year student spoke up about "Instagram" and how it has influenced him. He then motivated us by talking about why one must be an entrepreneur. He busted many myths



that discourage one from becoming an entrepreneur. One of the important myths he busted is that only people who studied at reputed institutes like IIT/IIM are fit for entrepreneurship; he gave various examples of successful startups founded by non-IITians. He explained the concept of digital marketing and how it bridges the startup and its intended audience. The highlight of his talk is about the "virtual office," which evade the

necessity of a traditional office. To elucidate the necessity of the "art of dividing shares," he asked a few participants to volunteer for a live practical demonstration. Participants enthusiastically volunteered for various roles like founder, partner, and investor. He elucidated the importance of the founder keeping the maximum number of shares and gave the example of "Steve Jobs" and how he was terminated from the company he founded.

He encouraged participants to distinguish between "venture capitalists" and "angel investors." He concluded his talk by explaining the hierarchy of a company with the help of a flowchart. The talk session concluded after an interactive activity in which participants





asked questions on digital marketing, the difference between a good and bad idea, etc. The session was engaging throughout, and participants interacted with the speaker enthusiastically.

After the session was over, we collected feedback from the participants. One participant particularly thanked the coordinators for organising such an informative talk. The participant has made up his mind to be an entrepreneur. One participant applauded the guest for interacting throughout and making it interesting. Many participants felt the session was not at all boring and engaging.

FROM THE ALUMNI CONNECT, ANANDA V RAMAN SHARES...

Dear Alumni,

Have a very Happy Thanksgiving by giving back to the community.

Once again, we take this opportunity to invite you to participate by contributing to the SSN Scholarship, which has positively impacted the lives of many students.

The scholarships are aimed at rewarding deserving students and, in the process, planting seeds of change to cultivate a culture of giving back to the community.

We look forward to your participation and request that you encourage your fellow alumni to also do so.

Please note that the contribution starts from just RS.100.

Link to make your donations - <https://axisbpayments.razorpay.com/SSN-alumni-donation>





Research news & Forthcoming events

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CORPORATE WISDOM

From the desk of Ramki -- Aspire to Inspire

From Ramki

Happy Morning – Aspire to Inspire

A seed is very well protected if it remains a seed. There is security in remaining a seed, whereas a plant is always vulnerable. To sprout into a plant makes the seed susceptible, but then, what else is the purpose of the seed? It contains a thousand forests within itself, and it is only when the seed transforms into a plant that those possibilities are opened. If the seed resists change and remains a kernel, it is no better than a pebble on the beach.

The most important quality of great people is their willingness to transform. The willingness to give up the life of a caterpillar is what transforms it into a butterfly. That which does not change does not grow. What does not grow perishes. We must grow.

So, we must change. Growth and the willingness to transform are inseparable. If transformation is the way to growth, and growth is the way to greatness, then why is transformation always resisted?

Let us look at an example. See, when you were just born, you were comfortable because you were completely dependent on your environment. Learning to crawl was an uncomfortable transition because you would have bruised your knees so many times, but it was a necessary one for you to grow. Once you learned to crawl, you were completely comfortable once again. Learning to walk was another uncomfortable transition because you would have fallen and hurt yourself so many times. But again, this transition to learning to walk was a necessary one for you to grow. Once you learned to walk, you were completely comfortable once again. So, it went from blabbering to talking to communicating. So, it went from scribbling to writing to drawing. So, it was from school to college to work.





Comfort zone - uncomfortable transition - again a new comfort zone - another uncomfortable transition - another new comfort zone - and one more uncomfortable transition -

This is the cycle of growth.

We must grow. So, we must transform. So, we cannot avoid uncomfortable transitions. Change is the willingness to give up one's current comfort zone and embark on an uncomfortable transition. Giving up an existing comfort zone is never easy. Uncomfortable transitions are never easy. But we must grow. So, we must change. So, we cannot avoid uncomfortable transitions.

The cycle of change is such that before changing, you are comfortable; after changing, you will again be comfortable; but the transition is never comfortable. However, the comfort you experience after changing is always of a higher degree than the comfort you experienced before changing.

So, legends permanently keep their life in transition, for that's the only way to grow up. The alternative is mere stagnation.

If you don't change, you become a "consequence receiver," and if you continue to change, you become a "choice maker."

#WishingMostAndMore

Have a wonderful day

R.Ramakrishnan

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