ASPIRE

Achievements in Sports, Projects, Industry, Research and Education

Monthly Newsletter

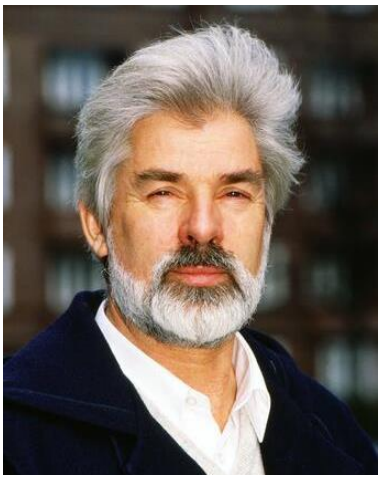
Department of Mechanical Engineering
Volume 11 Issue 11 November 2021

Sri Sivasubramaniya Nadar College of Engineering

SSN

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

Klaus Hasselmann: Father of Earth observation



"No challenge poses a greater threat to future generations than climate change"

Klaus Hasselmann is a German oceanographer and climate modeller who has published extensively in the fields of oceanography, meteorology, and in recent years, in socio-economic models of climate change. He grew up in Welwyn Garden City, England and attended university at Hamburg in 1949. Throughout his career he has been affiliated with the University of Hamburg and the Max Planck Institute for Meteorology, which he founded.

The Nobel laureate developed the theory underlying synthetic aperture imaging of ocean waves. The work was inspired by Nasa's Seasat, one of the earliest Earth-observing satellites, designed to test various oceanographic sensors. The theory was then used in the Copernicus Sentinel-1 radar mission that is used in operational ocean monitoring. Thanks to Professor Hasselmann, we have operational wave monitoring, today a source of essential data for ocean forecasting, keeping maritime traffic safe.

He was awarded the Nobel Prize for Physics in 2021 for the foundational progress he and Japanese-born American meteorologist Syukuro Manabe made in developing scientific models of Earth's climate, quantifying variability, and predicting global warming.
Hasselmann's seminal work in 1976 showed how weather that appears as noise and that can change rapidly and chaotically can be incorporated into a model to frame longer-term climate changes. This model led him to consider how warming signals generated by human activities, such as those produced from greenhouse gas emissions and their effects on temperature, could be separated from the background noise of natural climate variability.

In 1979 he published statistical techniques that allowed climate scientists to identify the presence and relative strength of these warming signals. This work became the basis for attribution studies—which seek to explain the links between human activities that contribute to climate change and specific weather and climate events, such as tropical cyclones (hurricanes), droughts, extreme rainfall events, and the pattern of rising global average temperatures—that appear frequently in national and global climate risk assessments that help to guide climate policy.

Campus Update

SSN IS A TOP CHOICE IN TAMIL NADU ENGINEERING ADMISSIONS 2021

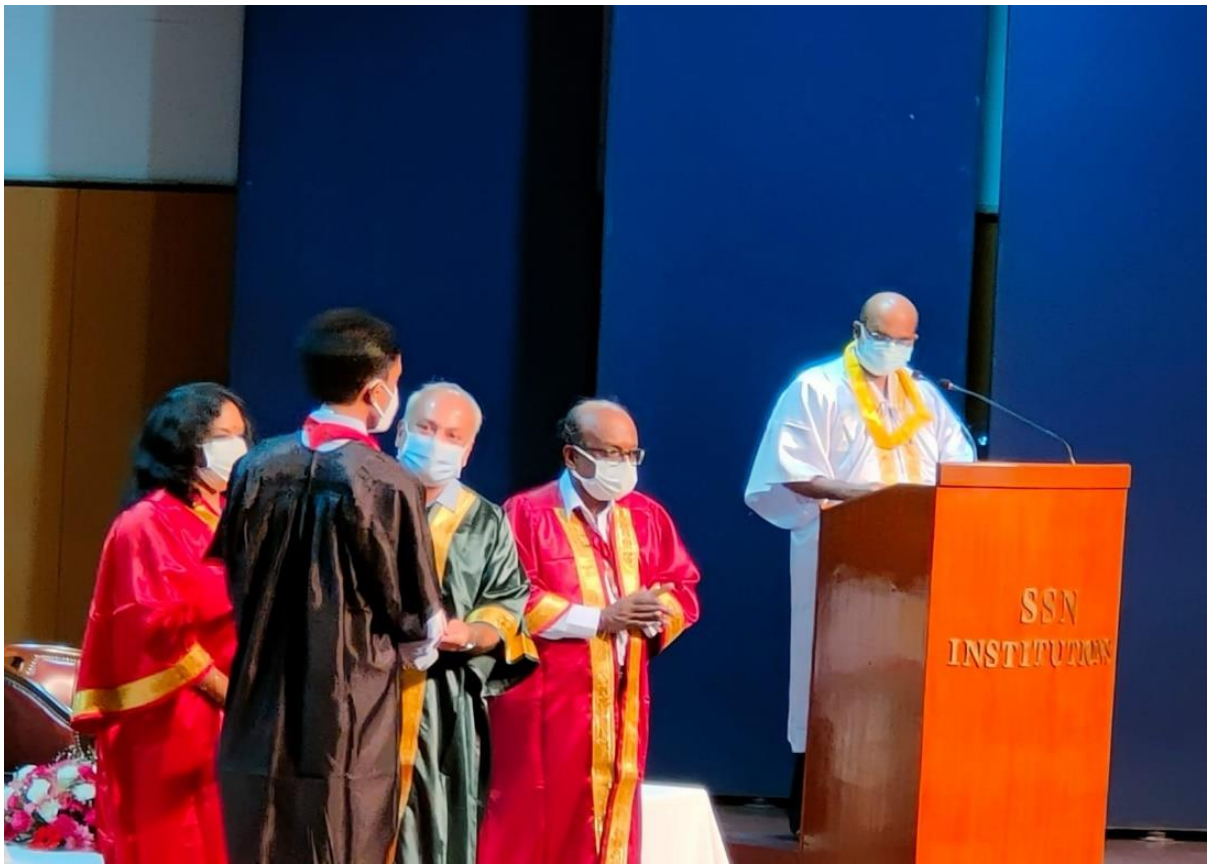
TNEA 2021 OPEN CATEGORY	OPENING CUT OFF	CLOSING CUT OFF	OPENING RANK	CLOSING RANK
Electronics and Communication	199	195	27	1315
Computer Science	199	197	47	404
Electrical and Electronics	198.5	194	70	1971
Mechanical Engineering	198	192.01	126	3886
Information Technology	196.5	195.01	557	1211
Biomedical Engineering	194	193.5	1912	2356
Chemical Engineering	193	191	2858	5476
Civil Engineering	193	190.5	2936	6202

Shiv Nadar University, Delhi NCR increases the Ph.D Stipend to ₹50000/₹55000 per month and are eligible for full tuition fee waiver

Shiv Nadar University Delhi NCR has been on the fore - front of graduate education since its inception in 2011. The University has also steadfastly supported its faculty and students in their research endeavors. In line with this, the University has updated its fellowship policy for doctoral students. Full-time doctoral students receive a monthly stipend of ₹50000/₹55000 and are eligible for full tuition fee waiver. More details are available in our fee document.

SSN Opens its Gates To Welcome Freshers Of 21-2025 Batch !

SSN Celebrates Its 21st Graduation Day

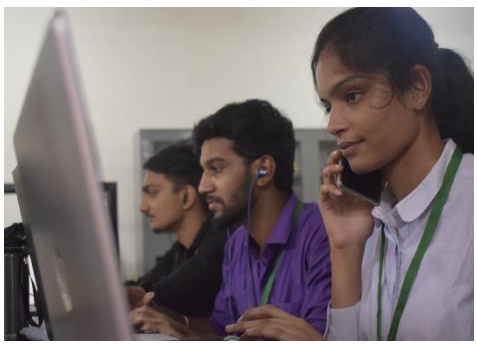


SSN College of Engineering celebrated its 21st Graduation Day on 9th October 2021. Dr. B. Venkataraman, Director, IGCAR, Kalpakkam and Dr. Sriman Kumar Bhattacharyya, Vice-Chancellor, Shiv Nadar University Chennai who were the Chief Guests of the ceremony conferred degrees upon 895 graduates including 48 University rank holders. Also presiding over the occasion were Dr. Kala Vijayakumar, President, SSN Institutions, Dr. V. E. Annamalai Principal, and All the Heads of the Department, SSN Institutions.

The 6th edition of our college's annual technical symposium INVENTE 6.0 was held on 8th & 9th October 2021. The virtually held event was an immense success, with a substantial number of eager participants from numerous colleges.

The 2018 Batch's President Consortium

Here are some snapshots of the mechanical event organizers and their teams in action.



Department Update

Placement Update

Glad to share with you that two got placed in two good companies with a good CTC.
Sam Sherin Raj S - Flender Drives (FEA Company) - 5 LPA

Abdulkadir Madraswala - Mckinsey - 10 LPA as Junior Analyst - Asia Regional Research Team, He had already got a job in Deloitte with a 7.6 LPA!!! This is a super dream offer for him.

Sam Sherin was asked mainly of FEA, Theories of Failure, Design related and so on. For Abdul, that was a tough selection process and only 8 across SSN got the offer. Mckinsey will normally have an exciting selection process, and many will be related to Analytics, Situation rounds and so on. Great to share that every year there will be at least one from Mech getting the coveted offer from Mckinsey!! As you know, only competitive candidates will be able to clear the intermediate rounds of SSN despite the fact anyone meeting the eligibility criteria can apply for Mckinsey. Process will become tough after each round with Mckinsey. Sometimes, they will surprise students by some shocking moments which has become usual nowadays with the company. Anyway, we have one this time!!

4 from our UG and One from PG Energy got placed in Keyence. CTC for UG is around 4.71 LPA and for PG it is around 5.5 LPA.

Company Name: Keyence, Role: Consulting Sales Engineer/Technical Engineer

1. **Nithyanandh G** 2. **Sanjai S** 3. **Saravanan T** 4. **Trendy Kishore S**

Student Details: M.E (Energy Engg.)

1. **Arun Aaditan P**




Students were given case studies as pdf in advance and discussions were made during the personal interview. Now that case studies have become a new norm in interviews, it is the right time that we adopt such models in our lectures. We can consider giving Case studies on Technical Topics and invite group discussions on the same. That will pave way for a healthy peer interaction among students. Just a Thought and nothing more!

3 students from Mech got placed after a Grilling Interview process of Hyundai, yesterday (25.10.2021). The three got an IT offer with them already. So, no improvement in placement count. As this was a pool campus drive with Sathyabama Univ., none from the visiting univ got through, as the process was so rigorous. Only the tough could endure!!

If it is IIT-JEE for exams, its Hyundai for Campus Interviews! It is so well designed, it's tough! Even one can crack IIT-JEE but it's difficult as regards Hyundai's selection process. As far as Hyundai's selection, one must not only Perform but need to OUT-PERFORM! Mine is not mere words here!! It's a reality! Our students did it!! SSN Mech has a legacy of producing such students you!! Kudos to the dept.!

The interview went on and on till 7.30 pm. It was hardly 20 students and 14-member panel from Hyundai conducted the interview right from Morning to evening 7.30. Post my discussion with them for about 45 mins-1 hr. in the morning, the rest of the agenda was designed to utmost precision. The Panel picked every nook and corner right from the initial screening test conducted a few weeks ago, Psychometric tests, the answers, the buttons students clicked in online tests, their every activity line by line was monitored, decoded, and what not !! A data analyst to understand the attitude cum behavior of students! Students were surprised.

For every candidate there was at least 10 papers about the candidate (it was a mini JATAKAM based on the individual's performance) that was readily available with the panel. That means the panel had spent hours and hours in advance knowing and understanding the candidate well in advance. The assessments were based on the initial tests and GD & PPT rounds that were all conducted online a few weeks ago. Kudos to their efforts! That's a painful exercise and reflects the pain industries take before selecting the (b)right candidates. Hyundai's Interview lasted for 1 to 1.5 hrs. for each candidate. Be it Technical, General discussion, Attitude check (Grueling Questions), or any other, the panel went to its full depth.

In the last round conducted a month ago students were asked to present a slide describing them as a persona and they were asked to make a SWOT analysis on their own self. The panel picked each word of it and cross checked with the resume. Students were given a situation to exhibit the persona in them during the face-to-face interview yesterday. For example, one of the winners had mentioned that he was a very compassionate person. They noted the point carefully and asked him to justify giving a tricky situation that describes as, "If Hyundai finds you and your friend at the Finals with equal top ratings and if only one were to be given the offer what will you do? Hyundai empowers you to either take the offer or give the offer to your friend. As you said you are so compassionate will you give the offer to your friend " Note that the panel will never leave the candidate until the answer is justifying. The experts are so trained that the stress meter of the candidates interviewed will reach Maximum in no time!! If you are curious, you can get to know how our winning student managed providing an excellent convincing answer to the above situation question. Then someone was asked about work-life balance and asked to justify through examples.

IOT is what Hyundai wants and exactly one student Dhilip (the Placement coordinator) did many projects in the last 1- year. They literally cornered him with fantastic questions in depth and the student managed it all. Thanks to the Faculty member who guides him IOT!! That was a hook!!

The expectations are piling up and Hyundai looks more on Discipline, Attitude, Practical Studies, Students who wish to stay for a least 4 years with them, students with IOT experience, Automation, Robotics, good technical knowledge and so on. The Panel never becomes Tired!! Overall, when the situation becomes tough only the Tough gets Going. Here are the Three who proved the above point. Unfortunately, it was twice in the last six months that one student Skanda Vijay went up to the Final Rounds of Hyundai but could not get through. Last time he underwent such a grilling exercise for Hyundai Internship which had the potential for an Offer. He missed by a minor margin after a tough fight. The second time too when Hyundai came for

a regular campus placement, he cleared all the tough rounds once more and very unfortunately yesterday too he lost fighting hard in the final round where only five had reached. That brings to the end of my write-up and many more interesting happenings with Hyundai. Better let me not disclose it too much... Please interact with the three and that will be impressive and interesting to listen to the whole winning streak with their Hyundai's selection.

I join with you all in Congratulating all of Them for the glorious show including the two who missed narrowly!!

CTC: 6.8 LPA

1.Nitish Kumar R.S

2. K. M. Dhilip

3. Sharan V

Placement clock ticks 96.... Close to a century....

54 Mech. students getting offers from Cognizant CTS / Tata Consultancy Services TCS

Dr. N. Lakshmi Narasimhan

External Research Grant for 42 Lakhs

RESEARCH FUND SANCTIONED FOR PROJECT UNDER NAVAL RESEARCH BOARD (NRB)

Project Amount: 42 Lakhs

PI: Dr. S. Suresh Kumar

Co. PI: Dr. SR Koteswara Rao

International Journal Publication - SCI Clarivate Indexed

Mg-Zn alloys are promising candidates for their application in automotive, electronics and aerospace applications. For their successful application, one of the performance parameters that needs to be evaluated is their creep behavior at elevated temperatures. Hence this paper evaluates the high temperature creep behavior of wrought ZM21 magnesium alloy by impression test, the tests were performed under constant temperature and stress. A flat ended cylindrical punch was used to create impressions. The temperature was varied between 398 K and 598 K while the stresses were varied from 200 MPa to 500 MPa (normalized stress: $0.014 \leq \sigma imp/G \geq 0.032$). A power-law creep deformation was assumed to calculate creep

exponent and activation energy using the steady state minimum impression velocity obtained from impression tests. The creep behavior was analyzed with the help of impression creep curves and plastic deformation was analyzed with the help of micrographs. It was found that creep exponent varied between 4.5 and 6 and activation energy between 73.28 and 113.35 kJ/mol were obtained. From the study it was concluded that the creep mechanism involved was pipe-diffusion-controlled dislocation climb.

High temperature impression creep behavior and microstructures of wrought ZM21 magnesium alloy **D Ebenezer**, *SR Koteswara Rao, S Vijayan, R Rajeswari Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications 12-10-2021(online) 2021*

Rajesh, M., K. Rajkumar, and V. E. Annamalai. "Abrasive water jet machining on Ti metal-interleaved basalt-flax fiber laminate." Materials and Manufacturing Processes 36.3 (2021): 329-340.

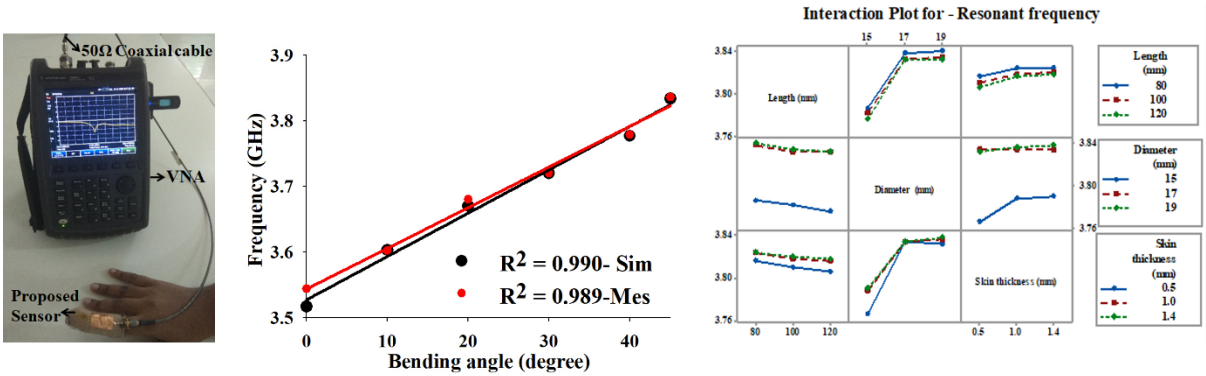
International Journal Publication -SCI Clarivate Indexed

On-Body RF Sensor Toward Tremor Detection in Parkinson's Disease

Sundarsingh, Esther Florence, and Vimal Samsingh Ramalingam. "On-Body RF Sensor towards Tremor Detection in Parkinson's disease." IEEE/ASME Transactions on Mechatronics (2020).

This article presents a conformal on body RF sensor with Artificial Intelligence Model to evaluate Tremor Detection in Parkinson's disease and assess/estimate the disease. RF sensor aids in detecting and extracting continuous finger movement that makes exact and repeated estimation of tremor feasible. The shift in frequency during finger motion is investigated to monitor tremor.

The sensor is developed on a finger cap in such a way that it conforms to the shape of a human finger. The fabricated sensor is tested in real-time with variations in finger length, diameter, and skin thickness. The influence of these variations on the frequency shift is investigated using analysis of variance (ANOVA) to evaluate the effect of these parameters on the response. The results used to develop AI based Fuzzy Model to predict the response. Correlation value of 98% is achieved between experimental and predicted values using fuzzy logic



Sensor Response and Analysis

External Recognition

Dr. R. Vimal Samsingh, ASP/Mech delivered a guest lecture on "Non destructive Testing and Evaluation of Composites " at the department of Mechanical Engineering , Kings Engineering College, Chennai on 13.10.20201

Dr. R Vimal Samsingh, ASP/Mech delivered a guest lecture on "Recent Trends in Additive Manufacturing" in the Two weeks National level Virtual Faculty development programme on Advanced Materials and Manufacturing technology organized by the department of Automobile,Eswari Engineering College, Chennai on 8.10.201.

Dr. Selvaraj M, Resource Person for Two days all India workshop on "FEA & FMEA in Mechanical Design" organized The Institution of Engineers (India), Kanchepuram Local Centre & St.Joseph's Institute of Technology, 12 & 13 October 2021 on the title 'Thermal modeling of FSW for predicting defect free weld parameters'

Dr.D.Ananthapadmanaban was invited by Bharath Institute of Higher Education and Research to deliver an invited talk on Processing and Manufacture of amorphous materials on 13 th October,2021 as part of their Faculty Development program.

Dr. L Poovazhagan, ASP/Mech delivered a key note lecture on "Introduction to micromachining" at the department of Mechanical Engineering, St Joseph College of Engineering, Sriperumbudur on 11.10.2021.

Dr. Satheesh Kumar Gopal delivered a talk on "Future of Robotics in India: Problems and Opportunities" on 26.10.2021 as a resource person for the Expert Webinar series, organized by the Department of Mechanical Engineering, SVCE, Chennai

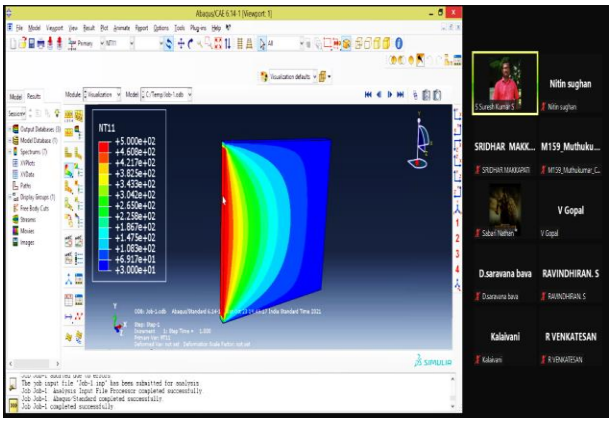
Dr. P. Dhamodharan, AP/Mech delivered a guest lecture on "Practical case studies of thermal energy audit instruments" at the department of Energy and Environment, National Institute of Technology (NIT), Trichy on 21.10.2021."

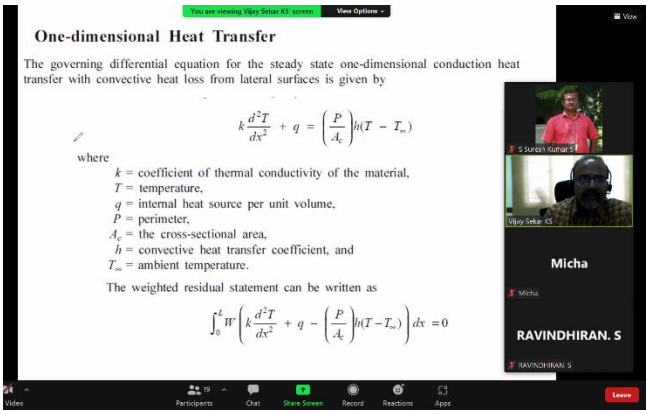
Dr. Alphin M S , Presented an invited lecture in "All India Workshop on FEA & FMEA In Mechanical Design" on Finite Element Formulation in St . Josephs institute of Technology, 13 th October 2021.

Faculty Write-Up

Workshop conducted by faculty members (Dr. KSV and Dr. SSK)

Dr. K. S. Vijay Sekar and Dr. S. Suresh Kumar conducted a one-day online workshop titled "**Structural, Thermal and Vibration Analysis using Abaqus Software**" on 23rd October 2021 (Saturday). The workshop was aimed to explore the application of Finite Element Analysis in solving 1D and 2D problems. In the morning session, fundamentals of FEA, stiffness matrix of 1D and 2D elements, application of FEA to static and dynamic analysis were covered by Dr. K. S. Vijay Sekar. After the lunch break, training was given to the participants to find solution to the structural (static and dynamic) and thermal problems using Abaqus software by Dr. S. Suresh Kumar. Around 20 participant including students and faculty members attended the workshop and the overall feedback of the participants is very good. The following are the snapshots of the online workshop.





Report on one day workshop "Modern Trends in Manufacturing Engineering"

Conveners:

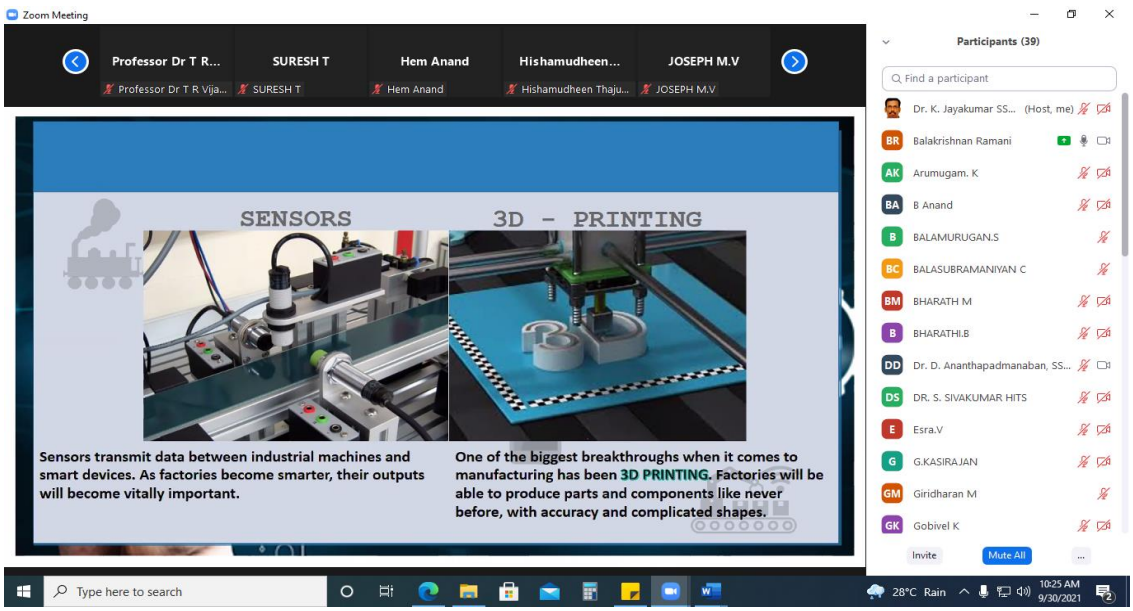
- Dr. D. Ananthapadmanaban, Associate Professor.
- Dr. K. Jayakumar, Associate Professor.

A one-day workshop was conducted on 30th September 2021 on "Recent trends in Manufacturing Engineering". Manufacturing is set to undergo a major haul in India with Aatma Nirbhar Bharath and the realization in the post Covid world, of the need for self-reliance.

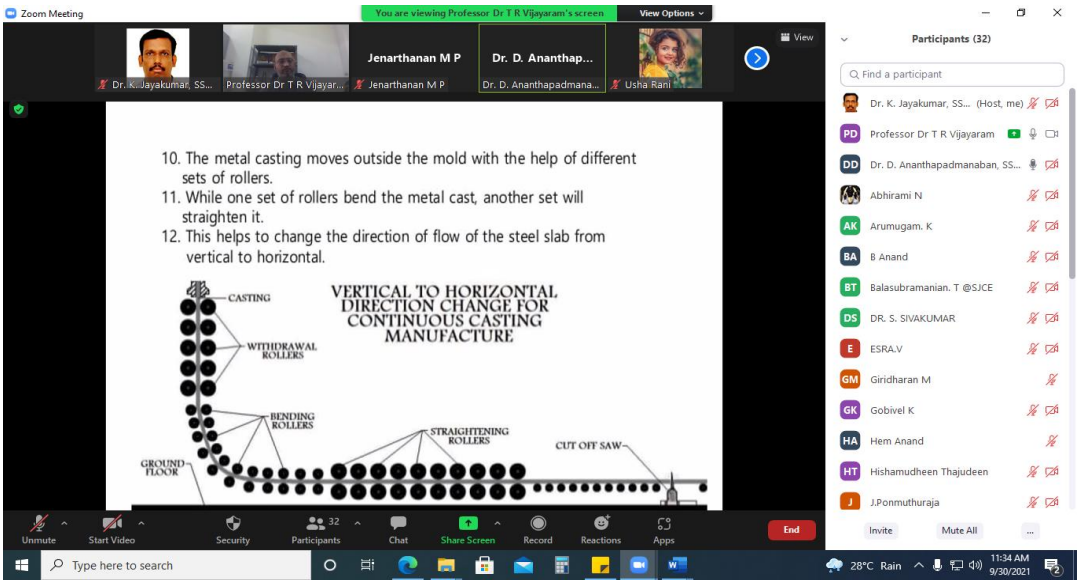
India has been a leader in software services and is now slowly, but surely replacing China as a global Manufacturing hub for the world due to the technical skills and cheap labor available in India.

The last edition of this workshop held last year focused on the research trends and this edition focussed on the recent trends. mostly form the industry point of view.

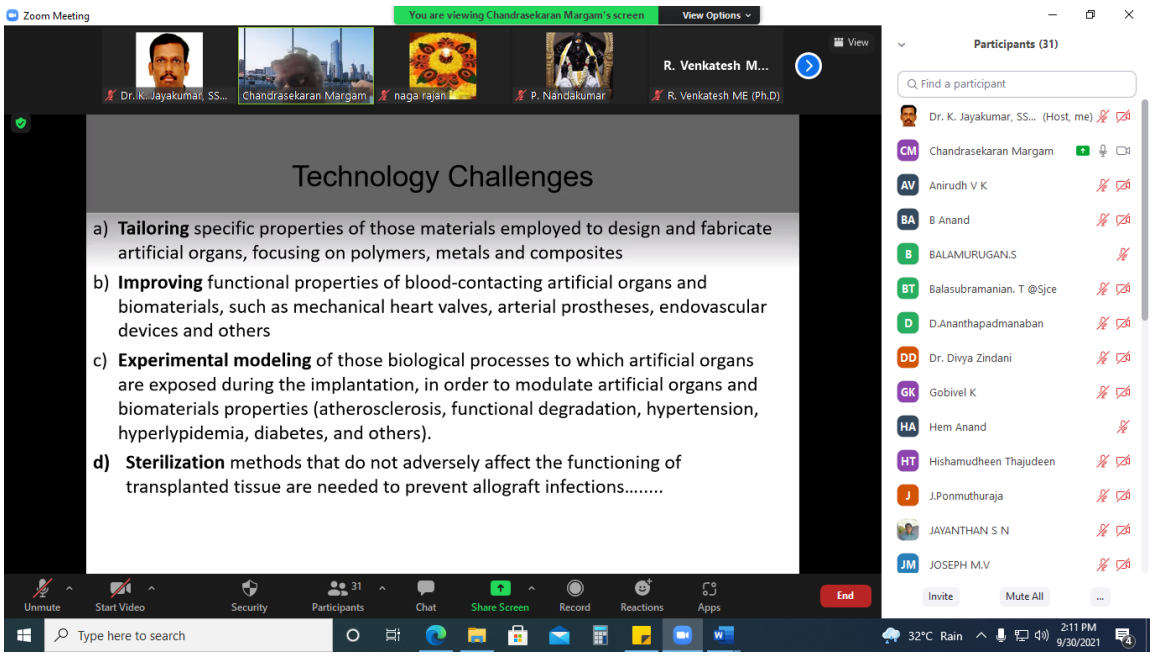
During the first session, Mr. Ramani Balakrishnan, CEO- Viruksa Manufacturing Solutions Pvt. Ltd., Chennai spoke on equip for the future. He covered Artificial intelligence, machine language, IoT, Cobots and explained elaborately on the factory and job requirements of the future.



Dr. Vijayaram, HOD-PG, Mechanical Engineering, Bharath University, Chennai the second speaker spoke on Continuous casting. He suggested that we write a joint proposal on Manufacture of composites by continuous casting.



Dr. Margam Chandrasekaran, Founder and Director, Wise Consultants and Services Pte Ltd, Singapore. the third speaker spoke on additive manufacturing as applied to medical devices.



75 participants registered and more than 35 attended the workshop. We have got participation from SASTRA University, Hindustan University, Easwari Engineering College, St. Josephs college of Engineering, CIPET Chennai, Agni college of Technology, DMI college of Engineering, University college of Engineering-Anna University Thoothukudi campus, MNM Jain Engineering College and SSN College of Engineering, etc.

We sincerely thank the SSN management for the support to conduct this annual workshop and hope that it will attract more participants in future.

Scopus Publication

S. Anush Lakshman and D. Ebenezer , Integration of internet of things and drones and its future applications, Materials today proceedings Volume 47, Part 4,Pages 944-949, 2021

K. Jayakumar, Santhana Krishnan K, Santhosh Saran J, K. Sanjeet Choudhary , Experimental study on surface grinding of Titanium 3Al-2.5V using SiC wheel, AIP Conference Proceedings2395 (1) 040003-1 - 040003-6, 2021.

M. Dhananchezian , Comparison the turning performance of Ti-6Al-4V, Monel 400 and Inconel 600 alloy with carbide insert, AIP Conference Proceedings ,2395 (1), 040001,2021,

M. Nalla Mohamed and G. VR. Sakthivel , Investigation on Mechanical Behavior of Kenaf Fabric/Bio-Epoxy/Egg-Shell Powder Reinforced Composites for Medical Applications , Lecture Notes in Mechanical Engineering Advances in Manufacturing, Automation, Design and Energy Technologies,,581-588, 2021.

M. Nalla Mohamed , Effect of Wall Thickness Variation on the Energy Absorption Efficiency of Cylindrical Tubes Under Axial Loading, Recent Advances in Manufacturing, Automation, Design and Energy Technologies, Lecture Notes in Mechanical Engineering, 589-598, 2021.

T.R.Vijayaram, M.P.Natarajan, M.RamaRao, D.Ananthapadmanaban ,Titanium and its Titanium alloys, Advanced Materials for Engineering Industries, Compliance Engineering Journal Volume 12,Issue 10, 2021

Faculty Monthly Activities

Dr. B. Anand Ronald, Dr. K. Jayakumar, Dr. L. Poovazhagan, conducted the One Day Workshop on Laser Sensing and Applications on 1 Oct 2021.

Dr. D. Ananthapadmanaban and Dr. K. Jayakumar, Associate Professors/Mech, organized one day workshop (online) titled “Modern Trends in Manufacturing Engineering" on 30-9-2021 (Thursday).

Dr. K.S. Vijay Sekar and Dr. S. Suresh Kumar of Mechanical dept. conducted a one-day national level virtual workshop titled "Structural, Thermal and Vibration Analysis using Abaqus Software” on October 23, 2021.

Dr.M.Nalla Mohamed organized a webinar titled " Higher education and Profile Building" delivered by Mrs. Dhivya Rajagopal and Mr. Praveen Kumar, CAREEERLABS, Chennai on 27.10.2021 via Online Zoom platform for Third Year Mechanical Engineering Students.

Dr. K.S. Vijay Sekar, Prof/Mech attended an online seminar cum presentation on Multiscale Composite Material Modeling using Multiscale. SIM/Ansys organized by DHIO, Bengaluru.

Dr. B. Jayakishan, Assistant Professor, attended 5 Days Virtual Faculty Development Programme (FDP) on "Automotive Engineering Systems", jointly organized by SAEINDIA Faculty Development Committee and ARAI Academy on 4th–8th October 2021

Dr. K. Jayakumar, Associate Professor/Mech. conducted the Seminar-II/Pre-synopsis presentation and third DC meeting for his Ph.D. Scholar Mr. S. Balamurugan (Full Time-SSN JRF) on 22.10.2021 and 26.10.2021 respectively.

Dr. K. Jayakumar, Associate Professor/Mech. conducted the third DC meeting (Submission of synopsis) for his Ph.D. Scholar Mr. S. Senthur Vaishnavan (Full Time-SSN JRF) on 05.10.2021.

Dr L Poovazhagan, ASP/Mech, convened first DC meeting for his full time PhD Scholar Mr.G.Ravanneshwarran on 01.10.2021.

Dr. B. Anand Ronald, ASP/ MECH, conducted the Ph.D Viva for Part Time Scholar, Mr. A. Johnny Varghese (Reg. No: 1314299751)

Dr. M. Dhananchezian, Asso.Prof, conducted the Ph.D Public Viva-Voce for his part-time Research Scholar Mr. S. Lakshmanan (Registration No. 1313219167) on 22.10.2021.

Dr. K.S. Vijay Sekar, Prof/Mech, attended a conference on Digital and Precision Agriculture, organized by Confederation of Indian Industries (CII) , Chennai on October 8, 2021.

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Non-Teaching Staff Monthly Activities

Mr. Nagarajan S, Lab Instructor, Department of Mechanical Engineering attended the "National Workshop on Covid19 Children a Rural Perspective" by National Institute of Disaster Management, Ministry of Home Affairs, Govt. Of India on 02/09/2021`.

Mr. Nagarajan S, Lab Instructor, Department of Mechanical Engineering involved for help desk in MSIT block and phone call attending work for First year B.E/B.Tech, Admission work for the academic year 2021-2022 from 14/06/2021 to 03/09/2021.

Mr. Balasundaram P, Lab assistant, Mechanical registered and attend Modern Trends in Manufacturing Engineering- one day workshop (Online)- 30th September 2021 (Thursday) By Dr.K.Jayakumar & Dr. D. Ananthapadmanaban

Mr. Balasundaram P, Lab assistant, mechanical completed alision certificate course of - improving your self-discipline on 28.09.2021 - 9 am

P. Nandakumar, Turner Grade – II Mechanical, Completed on line course Introduction to Microsoft Excel 2019 Beginner

R. Subramani, Lab Assistant, Mechanical Completed the on line course Introduction to Microsoft Excel 2019 Beginner

P. Nandakumar, Turner Grade – II, Department of Mechanical Engineering involved for Heip Desk and Phone call attending work for the I year Admission work for the Academic year 2021-2022 from 21/06/2021 to 02/09./2021.

Mr. M. Giridharan/Lab Assistant/ Mechanical attend One Day National Workshop on “Modern Trends in Manufacturing Engineering " on 30/9/2021

Mr. Nagarajan S, Lab Instructor, Department of Mechanical Engineering, participated in the National Workshop (Online) on “Modern Trends in Manufacturing Engineering” organized by the Department of Mechanical Engineering, SSN College of Engineering, Chennai on 30-9-2021

Mr. Nagarajan S, Lab Instructor, Department of Mechanical Engineering, attended the One Day online Workshop on “Laser Assisted Sensing & Applications” on 01 October 2021

conducted by SSN College of Engineering, Chennai, Tamilnadu, India.

Mr. M. Giridharan/Lab Assistant/Mechanical attend one day Workshop on "Laser Sensing & Applications" conducted on 1 Oct 2021.

Mr. M. Giridharan/Lab Assistant/Mechanical involved in Assist telephone calls for first year B.E/B.Tech Adimission 2021-2022.

Mr. M. Giridharan/Lab Assistant/Mechanical involved in Admission duty for first year B.E/B.Tech admission 2021-2022 during 22,23 & 25 October 2021.

J. Ponmuthuraja /Machinist grade-I (Sr.grade) has participated in the National Workshop (Online) on "Modern Trends in Manufacturing Engineering" organized by the Department of Mechanical Engineering, SSN College of Engineering, Chennai on 30-9-2021.

J. Ponmuthuraja / Machinist grade-I (Sr. Grade) has attended
the One Day ONLINE Workshop on "Laser Assisted Sensing & Applications" on 01 October 2021 conducted by SSN College of Engineering, Chennai, Tamilnadu, India.

Mr. P Balasundaram / Lab Assistant / Mechanical / Compelted alison course of *improving your self discipline* on 28.09.2021-thursday.

Mr. P. Nandakumar / Turner Grade II /Mechanical Dept / Attended one day online workshop LASER ASSISTED SENSING AND APPLICATIONS 01 October 2021.

Mr. P. Nandakumar / Turner Grade II /Mechanical Dept / Attended one day online National workshop Modern Trends in Manufacturing Engineering on 30-9-2021.

Mr. B. Bharathi /Lab assistant / Mechanical.Dept/ Attended the One Day ONLINE Workshop on "Laser Assisted Sensing & Applications" on 01 October 2021.

Mr. K. Arumugam / Carpenter Sr.Gr II / Mechanical.Dept/ Attended the One Day ONLINE Workshop on "Laser Assisted Sensing & Applications" on 01 October 2021.

Mr. K. Arumugam / Carpenter Sr.Gr II /Mechanical.Dept/ Attended the National Workshop (Online) on "Modern Trends in Manufacturing Engineering" on 30-9-2021.

Mr. M. Krishnasamy / Lab Assistant Gr II / Mechanical.Dept/ Attended the One Day ONLINE Workshop on "Laser Assisted Sensing & Applications" on 01 October 2021.

Mr. M. Krishnasamy / Lab Assistant Gr II / Mechanical.Dept/ Attended the National Workshop (Online) on "Modern Trends in Manufacturing Engineering" on 30-9-2021.

Mr. R. Subramani/ Lab assistant/ Mech attended the National level Workshop (Online) on "Modern Trends in Manufacturing Engineering" organized by the Department of Mechanical Engineering, SSN College of Engineering, Chennai on 30-9-2021.

Mr. R. Subramani/ Lab assistant/ Mech attended one day online workshop on "Laser Assisted Sensing & Applications" conducted by SSN College of Engineering, Chennai on 01-10-2021.

Mr. B. Bharathi / Lab Assistant Sr.Gr I / Mechanical.Dept/ Attended the National Workshop (Online) on "Modern Trends in Manufacturing Engineering" on 30-9-2021.

Student Write-Up

Student Activities

S.no	Date	Activity done during the month
		SECOND YEAR
1)	26/10/2021	T. Mano Balan, 2nd Year. • Volunteered in Invente 6.0. • Volunteered for the mega vaccination camp at Thiruporur in NSS's event • Volunteered for the mega cleaning camp at Mahabalipuram in NSS'S event.
2)	24/09/2021	S. Achinta, 2nd Year • Online Courses • Internship/Workshop at TVS Motors
		THIRD YEAR
3)	07/10/2021	Rufus Derrick R,3rd Year • Learnt about research on Eppler series airfoil using Ansys
4)	07/10/2021	Shivani Sathyanarayan,3rd year • Research on Eppler Series airfoil using Ansys simulation
		FINAL YEAR
5)	22/10/2021	Saravanan T,4th year • Placed at Keyence
6)	25/10/2021	Sharan V,4th year • Placement in Hyundai Motor India Ltd

7)	05/10/2021	Isaac Solomon V,4th year • Six Sigma Yellow Belt Certification
8)	05/10/2021	Tharun VS,4th year • Received six sigma yellow belt certification after attending a virtual training at Viruksa Manufacturing solutions Pvt. Ltd
9)	22/10/2021	Nithyanandh G,4th year • Placement- Keyence
10)	06/10/2021	Shoba E,4th year • Six sigma workshop
11)	05/10/2021	Sai Preeti S,4th year • Six Sigma Yellow Belt Program
12)	05/10/2021	A Sabareesh,4th year • Six Sigma workshop for yellow belt
13)	25/10/2021	Dhilip K.M, 4th year • Hyundai - Placement

Mano Balan T ,II-Year, writes....

Greetings! This is Mano Balan from second year Mechanical Department. I attended the Clean India campaign conducted by Ministry of Youth Affairs and Sports, Nehru Yuva Kendra-Kancheepuram District, National Service Scheme- Chengalpet and SSN College of Engineering- Kalavakkam. The event took place on 16th October 2021 in Mahaballipuram, near Krishna's Butter Ball. A group of 50 volunteers along with our NSS head staff started from college to Mahaballipuram by bus, reached the Krishna's Butter Ball, where the event was to begin. After having our refreshments, the event began. We were addressed by Dr. V. Prakash, District nodal NSS officer, Chengalpet district and Shri. N.S.Manoranjan, State director Nehru Yuva Kendra Sangathan, Tamil Nadu.

The event was also presided by Dr.V.E.Annamalai , Principal of our college. He addressed us on the importance of cleanliness. Dr.V.Prakash enlightened us about the importance of October month for a NSS volunteer. As Shri.S.S.Balaji, hon'ble member of legislative assembly was unable to attend the event, Dr.Sharmila spouse of him attended the event on behalf of him. All of us were provided with gloves and garbage bags to pick up the plastics. Dr.Sharmila started the event at 10 am by picking up one-time usable plastic wastes along with the us. Later we started to move from Krishna's Butter Ball to Mahaballipuram sea shore to clean the surroundings. We cleaned the beach and its surroundings till 12 pm. We handed over all the wastes we collected in the bag and ended our event by 12.30 pm. Finally, we departed to college by the bus.

It was a great event where I personally understood the importance of the cleanliness of our surroundings. As a NSS volunteer I was happy and proud for this service I did. I personally feel every citizen must try and keep their surroundings clean. For that to happen not only volunteers but also students must take necessary steps and participate in many events like this and spread awareness to common people to avoid plastics and keep their surroundings clean.

Thank You.

Sam Sherin, IV-Year Writes...

FLENDER
A Siemens Company

Name: Sam Sherin Raj S
Role: FEA Engineer (Mechanical Simulation)

The selection process consisted of 4 rounds:

1. Aptitude Test
2. Technical Interview- I
3. Technical Interview- II
4. HR Interview

1. Aptitude Test (Aug 16, 2021)

We had a 20-minute aptitude test consisting of 20 questions (5 – Logical Reasoning and 15 – Technical). Technical domain mainly focused on Gear calculations, gear concepts, basics of SOM, and materials. Time management was crucial during the test and calculations should be done fast.

2. Technical Interview- I (Aug 26, 2021)

32 candidates got shortlisted for the brief technical interview. The interviewer tested my basic understanding of mechanical concepts, I was asked to draw and explain stress-strain diagrams of ductile and brittle material, SN curves, load cycle diagrams. They asked questions from wind turbine powertrain, Fatigue concepts, Goodman theory, Miner's rule, types of fatigue loading. The interview lasted for around 30-40 minutes. They then checked if I wanted to pursue higher studies or not.

3. Technical Interview- II (Sep 13, 2021)

6 candidates got shortlisted for the detailed technical interview. It lasted for about 90 minutes for me, 30 minutes for each section (3 sections)

1st section: The interviewer asked me to explain all 5 theories of failure with their significance, and questions were asked from that and then I was asked to draw plane stress yield surface for various theories. Then, questions from bearings and shafts were also asked.

2nd section: They screen-shared me an image of a sectional view of the wind turbine gearbox and asked me to label all the components. Then they asked about stages of the gearbox and its working. Calculations from epicyclic geartrain were also asked.

3rd section (ANSYS): Basic FEA knowledge was tested, and I was asked to run down the process of simulation. They screen-shared ANSYS workbench and imported apart from epicyclic gear train. They explained to me the working of that part and asked me to run down the process of static force analysis. They asked me to give boundary conditions and asked me about the alternate results if boundary conditions were changed.

4. HR Interview (Sep 24, 2021)

First, I was asked to introduce myself and why I chose mechanical engineering. Then I was asked to explain my family background in detail and my passions. They also asked about my role in projects and internships. They gave me 2 scenarios and asked me how I would react and what will be my decision-making parameters.

Both technical and HR interview was more like a friendly discussion than an interview. It was okay if we don't know any answer, they guided us to reach the correct answer. It felt like a collaboration not like a formal interview.

Saravanan T,IV-Year, writes...

KEYENCE

This is Sarvanan, from mechanical final year. I would like to share my experience of the placement process for Keyence. The recruitment process was done for the role of **Consulting Sales Engineer.** The entire process consisted of 4 rounds.

Round 1 - Online Assessment:

In this round, basic arithmetic problems were asked to check your math skills. One could easily ace this round with fair knowledge in arithmetic operations. The duration of the test is 30 minutes, and 20 questions were asked.

Round 2 - One-Way Interview:

This round was one of a kind. This was a virtual interview round. Questions are displayed on the screen and the candidate has to record his/her response. If he/she is not satisfied with the answer it can be recorded again. 12 questions were asked to check your communication skills, spontaneity and whether you would be a good fit to the company.

Though the round was quite simple, this played a vital role as only about 15-20% of the candidates advanced to the next round.

Round 3 - Virtual Interview:

This round was to test your convincing skills. No prior technical knowledge is required here. The interviewer was very polite and asked for an introduction. This was followed by 2 scenarios:

1. He reads books using electronic devices, I must convince him to read paperback book.
2. He likes to watch cricket; I have to convince him to watch football.

No preparation time was given. Spontaneity is important here. The formula that I followed here was to ask him questions in order to find why he prefers the former over the latter. He said some points and then I built my pitch around them. He finally seemed to be convinced. The interview lasted for around 15 minutes.

Round 4 - Live Interview:

This was the final interview and was held at a private hotel in Chennai. About 30 students from various colleges around Chennai were present. The interview was mainly focused on technical sales and HR.

2 product catalogues (sensors) were sent a couple of days before the interview we were asked to go through them. The interview started off with basic introduction and a brief conversation regarding the previous rounds. Then they asked me to sell one of the sensors to an executive (role-play) from an automobile manufacturing plant. Just like the previous interview, here also I asked some questions which helped me identify the pain points of the consumer. This made me sell my product much easily.

Then I was asked about my family background, why I want to transit to sales from a technical domain and relocation preference. There were 2 panel members and they made me very comfortable. This interview lasted for about 20 minutes. The main takeaway from my whole experience is to be smart and spontaneous. Ask the interviewer many questions as it would make them feel that you are a keen thinker and creates a positive impression.

Moreover, do not hesitate that it is a sales job. It has its own perks and would introduce you to many people in the industry. It increases both your technical skills and management skills. So, if you love to travel and like to socialize with people then just go with the sales job.

Abdulkadir Madraswala, IV-Year, writes...

This is Abdulkadir Madraswala, from Mechanical final year. I would share about the placement process of Mckinsey

Role: Asia Regional Research Team

Mckinsey's hiring process is a notoriously competitive one. It consisted of 4 rounds (1 CBT+3 interviews).

Round 1: Mckinsey Game test

Unlike other companies who prefer a standard general aptitude test as the first round, Mckinsey makes use of their unique Imbellus test. This test is designed to test the taker's critical thinking, data analysis and problem-solving skills. Generally, the taker is given a database of information and is then tasked with coming up with a solution to a given problem within a specified time limit.

E.g.: One of the games is an ecosystem building game. Data (optimal temp, humidity, calorific requirements etc.) regarding several species of flora and fauna is given to the user. The task is to create a food web consisting of eight of the above species such that the ecosystem should survive for the longest possible time in the selected location. The second game is akin to some tower defense games such as Plant vs Zombies.

Round 2: General Fit Interview + Guesstimates

The second round is a general interview round. Usually, you will be asked questions based on your resume and why you think you are a suitable candidate for the role.

This is followed by a guesstimate question. Guesstimates are a popular tool used by recruiters to analyze a student's problem-solving skills and ability to make a structured solution. You will be asked to give a quantitative estimate for the question asked by the interviewer. Keep in mind that the interviewer is more interested in your approach rather than the answer itself.

I was asked to guesstimate the number of iPhone users in India.

Other examples:

Guesstimate the number of people who use the Chennai metro in a day.

Guesstimate the number Maruti Swifts in India.

Round 3 & 4: Case Study Interviews

The subsequent rounds are case study rounds. You will be given a specific business problem and asked to analyze the reasons which are causing those problems and recommending solutions. The interviewer will give you the required data and you will be asked to show your analysis on paper. These case studies are to test your business acumen and critical thinking. It's helpful to read up on a few business terms like profitability, Return of Investment, Payback periods to help you solve the problem.

Example: I was given data regarding an Indian juice manufacturer who has been facing negative profits since inception & was asked to go into what the reasons may be and make recommendations.

ALL THE BEST!

Mech Marvel

Water Purifying Hydrogel Tablets!

As much as a third of the world's population does not have access to clean drinking water, according to some estimates, and half of the population could live in water-stressed areas by 2025. Finding a solution to this problem is at the top of list for many dedicated scientists and engineers globally.

Scientists and engineers at The University of Texas at Austin have created a hydrogel tablet that can rapidly purify contaminated water. One tablet can disinfect a litre of river water and make it suitable for drinking in an hour or less. The special hydrogels generate hydrogen peroxide to neutralize bacteria at an efficiency rate of more than 99.999%. The hydrogen peroxide works with activated carbon particles to attack essential cell components of bacteria and disrupt their metabolism. The process requires zero energy input and doesn't create harmful by products. The hydrogels can easily be removed, and they don't leave any residue.

The team is in the process of commercializing several prototypes. Materials for making them are inexpensive, and the synthesis processes are simple and remain that way at large scales. And they can easily control the shape and size of the hydrogels, making them flexible for different types of uses. Here is the research paper for further reading.

Corporate Story

Planys Technologies

ROV is a remotely operated underwater vehicle that can be operated by a crew on the surface to carry out underwater tasks. With a rise in the number of offshore activities around the world, the ROV market is steadily growing. An IIT Madras incubate established in 2012, Planys Technologies is the first original equipment manufacturer of ROVs in India. They aim to bring together world-class technological innovations into indigenous designs to manufacture compact ROVs. Planys' technology finds widespread application in the domains of marine robotics, advanced Non-Destructive Evaluation, and AI enabled post-inspection analysis.

The Chennai based company has a customer base across India, Europe & the Middle East, which consists of the state governments and leading big guns of the industry including L&T Shipbuilding, Indian Oil, TATA Steel, HPCL, PSA Singapore, and several others. They were listed in Forbes Asia's 100 companies to watch this year. Exciting times lie ahead for Planys as they work towards disrupting the global underwater inspection arena by inventing ground-breaking solutions. If you're interested, do check out their Website and LinkedIn for news and openings.

Amazing Innovation 203

Personalized 3D Printed Wearables!

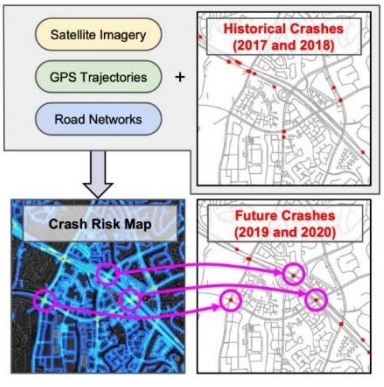
University of Arizona engineers have developed a type of wearable they call a "biosymbiotic device," which has several unprecedented benefits. Not only are the devices custom 3D-printed and based on body scans of wearers, but they can operate continuously using a combination of wireless power transfer and compact energy storage.

The new devices could mean massive improvements in the monitoring and treatment of diseases, the testing of new drugs, and the ability to track personal health. Because these devices are custom fitted to the wearer, they're also highly sensitive. They use no adhesive, and it receives its power from a wireless system with a range of several meters. The device also includes a small energy storage unit, so that it will function even if the wearer goes out of the system's range, including out of the house.

"These devices are designed to require no interaction with the wearer," says the lead engineer. "It's as simple as putting the device on. Then you forget about it, and it does its job." Here is the Journal Paper for further reading and a Video of it in action.

Amazing Innovation 204

AI That Predicts Traffic Accidents



Even though there have been numerous advancements in road travel, we still rely on the intuition of us and our fellow drivers, along with traffic rules to drive safe.

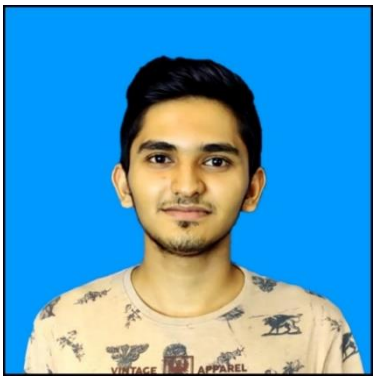
To get ahead of the uncertainty inherent to crashes, scientists from MIT's Computer Science and Artificial Intelligence Laboratory and the Qatar Center for Artificial Intelligence developed a deep learning model that predicts very high-resolution crash risk maps. Fed on a combination of historical crash data, road maps, satellite imagery, and GPS traces, the risk maps describe the expected number of crashes over periods of time in the future, to identify high-risk areas and predict future crashes.

Car accidents cost about 3 percent of the world's GDP and are the leading cause of death in children and young adults. Through this - we can find safer routes, enable auto insurance companies to provide customized insurance plans based on driving trajectories of customers and help city planners design safer roads. Here is the Journal Paper for further reading.

Alumni association activity

Event 1

LTI Selection Process with Alumnus



An Alumnus Interaction with Mr. Vignesh M of 2021 batch was organized by the Student Placement Coordinators of the Department of Mechanical Engineering for the students applying for LTI (Larsen and Turbo Infotech Limited), on September 11, 2021. Being a Mechanical Engineer, the guest shared his experience on how to prepare for the placement process of LTI. He explained how he approached the process and landed a dream job offer at LTI.

Over hundred students from all branches of SSN College of Engineering joined the meeting and got a clear visualization of the placement process. Mr. Vignesh also shared his thoughts and experience on all the aspects of placements, including resume preparation and how to answer general questions in Interviews. We also got to know about the recent trends in Software Industry from the session. We are thankful to Mr. Vignesh M for sharing his knowledge and experience with us.

Event 2

Name of the event: Overview of MBA and start-up

Date: 24 - 10 - 2021

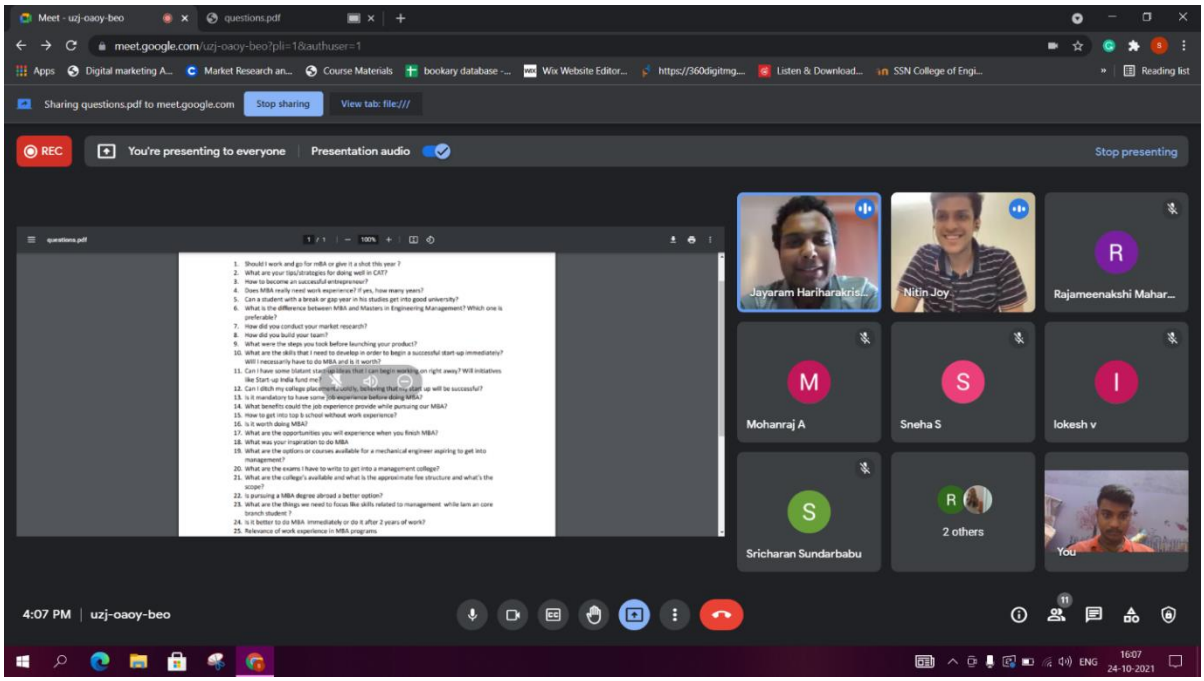
Number of attendees: 15

Faculty coordinator: Dr. C. Arun Prakash

Student coordinators: A. Sabareesh, Mohanraj. A, Biju. R, Sricharan S (III Year)

Alumni: Jayaram Hariharakrishnan & Nitin Joy

On the 24th of October, the Alumni association of the Mechanical Department coordinated interaction with alumni of the 2019 batch. The main focus of this interaction was to clear the doubts of all MBA and start-up aspirants and help them get a clear view of what and how their future is going to be.



The session was headed by Nitin Joy, who finished his MBA in Marketing from IMT Ghaziabad and currently working with Perfetti Van Melle & Jayaram Hariharakrishnan, who finished his MBA in marketing from SPJIMR and currently working with Pidilite Industries.

Jayaram started the session by asking students about their expectations out of an MBA degree. One of the questions was "Is work experience necessary for SPJIMR?" Jayaram answered this cordially and made it clear that work experience is not a criterion for getting into SPJIMR. He also mentioned that an MBA degree is not necessary to pursue a career in marketing. To a different question about the relevance of a Mechanical Engineering degree to MBA, both Nitin and Jayaram agreed that B-Schools welcome students from varying educational backgrounds because with diverse portfolio comes diverse thinking minds which is a necessary aspect of any MBA degree.

Jayaram further added that an MBA will help in establishing and running a start-up and many B-Schools have separate boards for funding student start-ups. Nitin added that during an MBA, every student will be pushed out of their comfort zone and made into a public speaker just like how Jayaram and himself have become. Jayaram said that "Engineering degree helps to have an analytical approach whereas MBA gives you the knack and colour to approach the problem." which cleared everyone off their doubt as to whether to take up an MBA after engineering or not.

For the rest of the session, Nitin and Jayaram tried their level best to answer all the questions that were asked by the students earlier clearly. With a thank you note from the organizers, the meeting was called to an end.

Research news & Forthcoming events

Project Proposal Submission

DST - DAAD Call Last date for submission of the project proposal: **16-Nov-2021** DST - DAAD Call | Department Of Science & Technology
DST Austria Call Last date for submission of the project proposal: **26-Nov-2021** DST Austria Call | Department Of Science & Technology
Scheme for Young Scientists and Technologists (SYST) 2021 Last date for submission of the project proposal: **30-Nov-2021** Scheme for Young Scientists and Technologists (SYST) 2021 | Department Of Science & Technology (dst.gov.in)
Allergy and Infectious Diseases Research Last date for submission of the project proposal: **07-Dec-2021** https://www.grants.gov/web/grants/search-grants.html
Science for Nature and People Partnership (SNAPP) Last date for submission of the project proposal: **10-Dec-2021** Login | SNAPP (snappartnership.net)
Sophisticated Analytical and Technical Help Institutes (SATHI) Last date for submission of the project proposal: **10-Dec-2021** https://dst.gov.in/sites/default/files/asc_0.pdf
India Philippines Joint Call for R & D Proposals Last date for submission of the project proposal: **17-Jan-2021** India Philippines Joint Call for R & D Proposals | Department Of Science & Technology (dst.gov.in)

Conference with Scopus/SCI Publication

4th International Conference on Computing and Communication Technologies (ICCCT 21)

Sri Sairam Engineering College, International Conference, Chennai, Tamil Nadu

16th - 17th December 2021

https://iccct21.org

GreenTech21 Website

https://sites.google.com/ssn.edu.in/greentech2021/home

Accepted papers will be published in Journal indexed in various databases such as, **SCOPUS, Clarivate** etc

16-17 November 2021 **ICAMS 2021** Ahmednagar, India

International Conference on Advances in Material Science 2021

Second International Conference on Advances in Material Science (ICAMS) 2021 is organized by Technology Research and Innovation Centre, India in association with Dr. Vithalrao Vikhe Patil College of Engineering, Ahmednagar, India and IEEE Nanotechnology Council Chapter, South Africa on 16-17 November, 2021. ICAMS 2021 .

https://apply.ssn.edu.in/

pgadmissions@ssn.edu.in
Phone: 044 – 2441 1656 / 2441 6474

Inspiring Life Stories

Happiness

One day Mulla Nasruddin saw a man sitting in a pall of gloom.

When asked for the reason behind his sorrow, the man replied that his life had become so miserable that he had collected all his money in a small bag and was wandering around seeking happiness.

All of a sudden, Nasruddin picked up the man's bag and dodging him disappeared from his sight. The man was running all around to catch Mulla and get the bag which was his only possession.

After some time Nasruddin placed the bag at a place where the frantic man could see it and then hid himself behind a tree.

When the man found his bag he forgot his grief and began dancing with joy.

Moral: A wise person is one, who knows and cherish the values of the things before he or she loses them

Source: Timeless Jokes-Ageless Wisdom by Awdhesh Singh (goodreads.com)

PicSource: https://ichef.bbci.co.uk/news/1024/media/images/68443000/jpg/_68443857_hi014421183.jpg

Corporate Wisdom

From the desk of Ramki -– Aspire to Inspire

Happy Morning

A pet food company created a new variety of dog good and rolled out a massive marketing campaign to introduce the product. Initially they had phenomenal success generated by their aggressive visual and print media advertising. However, within months the sales dropped dramatically. In desperation, the CEO called in all the top executives for a brainstorming session to analyse what had gone wrong with the campaigns and how a new campaign may revive sales.

The meeting went on for hours. Sophisticated statistical analysis was brought to bear on the problem. One VP argues that the mix of TV and print ads had been messed up. Another argues that the previous campaign had been subtle and had filed to feature the product with sufficient prominence. Another argues that the TV ad campaign had focused too much on spots during sporting events and not enough on regular programming with a broader demographic. Someone argued opposite-not enough sports programming had been targeted. After the debate had raged for hours, the CEO felt they had accomplished very little. He asked if anyone else had any theories that might explain the failure of the new product. One newly hired employee raised his hand and was recognized. "May be the dogs don't like it".

It doesn't matter how you have priced it, how it is packaged, who is the model in the advertisement, the distributions system's effectiveness for a dog food to sell dogs must like it. Period. To design a dog food, the dog must be taken into consideration and not its owners.

You cannot attract a squirrel to your balcony with a good South-Indian filter coffee just because you like coffee. They need nuts and fruits. It is about the squirrel.

The inherent question in every human being is "what is in it for me"? Some are motivated with money, some by learning environment, some need challenges, some need pressure and some need calm and cool working environment. Some things works for everyone. It boils down to that every human being has a dominant need and each one's dominant trait and passion are different. In that sense we are all same and yet we are all different.

The key is to take other's perspective into consideration and then customize your leadership. You approach to each one has to be different and there is no standard way of dealing with everyone in one way. By you seeing the world the way others see it, you can transform them to see the world the way you see it.

#WishingMostAndMore

Have a wonderful day

R. Ramakrishnan

Email: r.ramakrishnan@gmrgroup.in

Editorial Team

Dr. Alphin M S

Dr. Satheesh Kumar G

Viswapriya G

D S Balaji Adithya

Akshaya R

Shivani S

feedback to ***aspire @mech.ssn.edu.in***