ISSUE 02 | VOLUME 15 | FEBRUARY 2025

ASPIRE

ACHIEVEMENTS IN SPORTS,PROJECTS,INDUSTRY,RESEARCH AND EDUCATION

DEPARTMENT OF MECHANICAL ENGINEERING

SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING
RAJIV GANDHI SALAI(OMR), KALAVAKKAM, CHENNAI, TAMIL NADU, INDIA.

From the HoD's desk.....

Dr. K S Vijay Sekar
Professor and Head,
Department of Mechanical Engineering

We are happy to share the February edition of Aspire!!

We profile Richard H. Thaler who was awarded the Nobel prize in Economic Sciences in 2017 for his deep-rooted insights and path breaking theories on behavioral economics.

Dr Kala Vijayakumar shares the historic milestone of SSN becoming the first higher education institution in India to receive the prestigious STARS rating from AASHE. Shiv Nadar University, Noida signs an MOU with Indian Army for providing scholarships to wards of Army personnel who seek admissions.

Our alumni, D Karthik of 2008-12 Mech batch, Sr. VP at Goldman Sachs, delivered an inspiring talk on career skills, leadership and art of good communication to the SSN student community. Placements and Internships through an active CDC cell of the institution constantly helps the student community get the best of career opportunities.

Faculty activities were in full swing with workshops on ANSYS and FUSION 360 software, Guest lecture on semi-conductors, judging interschool competition, MSME awareness seminar, exploring consulting opportunities at CVRDE and presenting paper at IITM, Research collaborations with NAMTECH, Gujarat.

Students share their internship sojourns at Ashok Leyland and NNTPS, Neyveli, while our alumni, an active NSS student shares his journey to a career in Caterpillar.

Best wishes for a refreshing February,

KSV

vijaysekarks@ssn.edu.in

RICHARD H. THALER: AN INFLUENTIAL ECONOMIST

Richard H. Thaler, born on September 12, 1945, in East Orange, New Jersey, is a groundbreaking economist whose work has reshaped the field of behavioural economics. Awarded the Nobel Prize in Economic Sciences in 2017, Thaler's research challenges traditional economic theories by integrating insights from psychology, exploring how human behaviour often deviates from rational decision-making. His ideas have profoundly influenced public policy, business strategies, and how individuals approach financial decisions.

Thaler's academic journey began with a bachelor's degree from Case Western Reserve University and a PhD in economics from the University of Rochester. Early in his career, he became fascinated by how real-life decisions often contradicted the rational models of classical economics. Drawing on psychological principles, he explored concepts such as bounded rationality, loss aversion, and mental accounting, laying the foundation for behavioural economics as a distinct discipline.

One of Thaler's most influential contributions is his work on "nudge theory," developed alongside legal scholar Cass Sunstein. Outlined in their best-selling book Nudge: Improving Decisions About Health, Wealth, and Happiness (2008), the theory demonstrates how small changes in how choices are presented can significantly influence behaviour without restricting individual freedom. This concept has been widely applied in public policy, from encouraging retirement savings to promoting healthier lifestyles, earning praise for its effectiveness and simplicity.

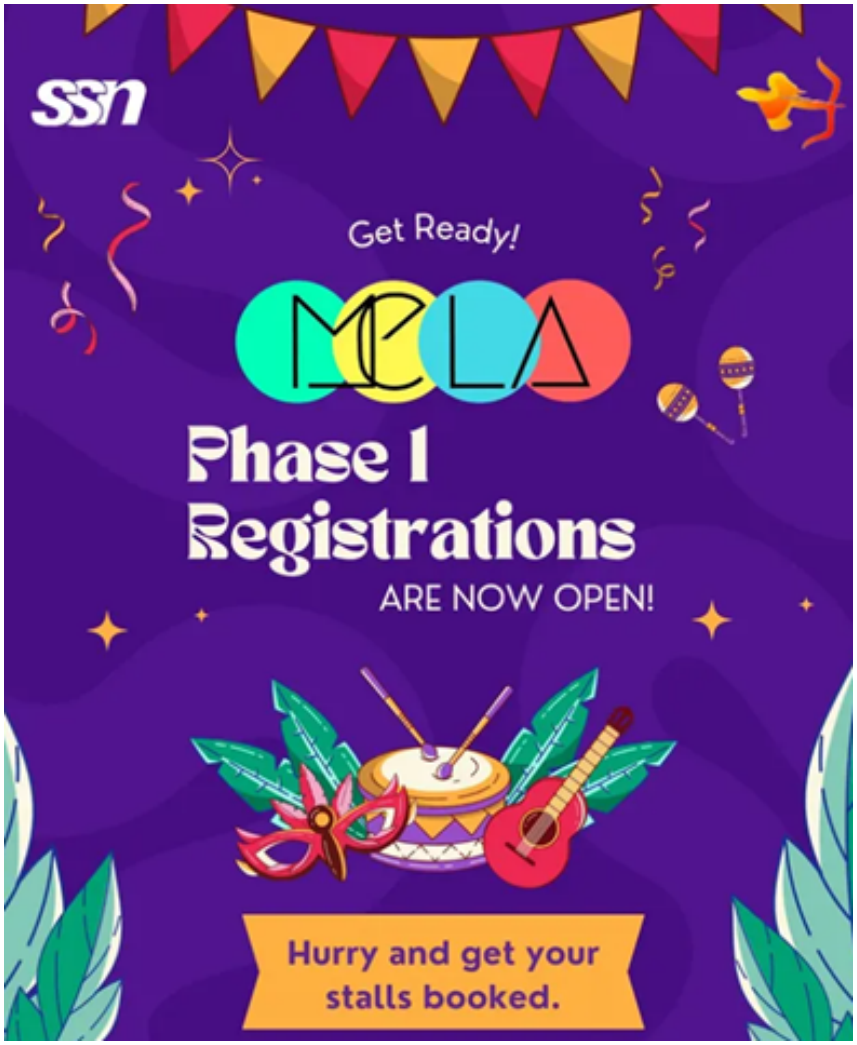
Throughout his career, Thaler has received numerous accolades, including the Presidency of the American Economic Association and membership in the National Academy of Sciences. He has held esteemed academic positions, notably at the University of Chicago Booth School of Business, where he continues to inspire students and researchers. Richard Thaler's innovative work has transformed economics into a more human-centred science, leaving a lasting legacy on both theory and practice. His contributions remind us that understanding human behaviour is essential to creating systems that truly benefit society

SHIV NADAR UNIVERSITY SIGNS MOU WITH INDIAN ARMY

Shiv Nadar University, Delhi-NCR, has signed a Memorandum of Understanding (MoU) with the Indian Army to provide scholarships for the wards of Indian Army personnel seeking admission to various undergraduate programs. This collaboration aims to support and encourage the education of students from Army families, fostering academic excellence and career opportunities. The MoU was signed by Professor Ananya Mukherjee, Vice-Chancellor of Shiv Nadar University, Delhi-NCR, and Lt. General Ranjit Singh, Director General of Discipline, Ceremonials, and Welfare. This initiative underscores the university's commitment to inclusive education and honouring the sacrifices made by Army personnel .Dr. Rajeev Kumar Singh, Ph.D., Professor at the School of Engineering and Chairperson of Admissions, and Brigadier T.M. Sinha, Brigadier, Welfare, served as witnesses to the agreement. Their presence highlighted the importance of this collaboration in bridging the gap between quality education and the children of Army personnel. The signing ceremony was attended by distinguished academicians and officials, including Professor Suneet Tuli, Dean, of the School of Engineering, Research and Partnerships, Professor Rajat Kathuria, Dean, of the School of Humanities and Social Sciences, Colonel G. Raja Sekhar (Retd.), Executive Director, and Brigadier Steve Ismail (Retd.), Dean of Students. This partnership is expected to provide valuable educational opportunities and strengthen the bond between the academic and defence sectors.

SSN SNU MELA 2025: GET YOUR STALL NOW

Exciting news! The SSN SNU Mela is set to take place on 21st February 2025. This much-awaited event promises a day full of fun and engaging activities. The slots for the mela are now open, and participants are encouraged to secure their spots as soon as possible. Hurry up and book your slot today!



SSN RECEIVES STARS RATING FROM AASHE

Historic Milestone for SSN!

Elated to share that SSN has become the first higher education institution in India to receive the prestigious STARS rating from AASHE!
We are proud to have been awarded the coveted Gold rating - making this achievement even more special. Notably, in the latest version 3.0, this is the highest rating achieved by any institution globally to date. Even more exciting, SSN secured full marks in the Innovation section!
Humbled to note that this recognition places us alongside other international higher education institutions with a Gold rating, such as Carnegie Mellon University, Yale University, North Carolina State University, and Michigan State University, among others.
A huge kudos to our entire team and all the stakeholders who contributed to this monumental global achievement!
For those unfamiliar, the Sustainability Tracking, Assessment & Rating System (STARS) is a comprehensive self-reporting framework developed by the Association for the Advancement of Sustainability in Higher Education (AASHE). It helps institutions measure, improve and publicly report their sustainability performance.
This recognition is a testament to SSN's unwavering commitment to sustainability, innovation and
excellence!

Sri Sivasubramaniya Nadar College of Engineering

Is hereby recognized by the Association for the Advancement of Sustainability in Higher Education as a STARS Gold Institution based on its reported accomplishments in campus sustainability.

Valid through Jan. 29, 2028

aashe

Meghan Fay Zahniser

Meghan Fay Zahniser, Executive Director

stars
a program of aashe

ALUMNI CONNECT : LEADERSHIP TALK

The SSN College of Engineering hosted an engaging and informative session on 31.01.2025 as alumnus D. Karthick from the Mechanical Engineering batch of 2012 addressed students in the Central Seminar Hall. Organized by the SSN Alumni Association, the event saw enthusiastic participation from students eager to gain insights from an accomplished former student.

D. Karthick shared his experiences from his academic and professional journey, offering valuable advice on career growth, industry challenges, and the evolving role of mechanical engineers in today's technological landscape. His talk provided students with a deeper understanding of industry expectations, skill development, and the importance of continuous learning.

International Journal Publication - SCI /Clarivate Indexed

D. T. Vempany, L. K. Malla, H. Dileep, P. S. Mahapatra, P. Srivastava, A. Pattamatta. “A novel antiparallel flat plate pulsating heat pipe for thermal management of electronics”. Experimental Heat Transfer.Clarivate Impact Factor: 2.5.

Thermal management is an intrinsic aspect of the electronics industry, and a flat plate pulsating heat pipe (FPPHP) consisting of multiple capillary channels machined on a flat plate, sealed using another plate, and filled with a working fluid is an ideal choice for flat heat sources. Typically, the

DEPARTMENT OF MECHANICAL ENGINEERING
CLASS OF 2025

PLACEMENT UPDATE

pickyourtrail

DINESH I

VIJAY RAM PRASADH S

DEPARTMENT OF MECHANICAL ENGINEERING
CLASS OF 2025

PLACEMENT UPDATE

INSPIRE LEAP
TAKE THE NEXT LEAP IN YOUR CAREER

SUBIKSHWAR K

MOHAN RAJ V

SUBASURYA R

YESWANTH D

GNANA STEFEN J

DEPARTMENT OF MECHANICAL ENGINEERING
CLASS OF 2025

PLACEMENT UPDATE

FABRIZIO J

rocketlane

Valeo

THIRLOCHAN L

SUDHARSAN CS

DEPARTMENT OF MECHANICAL ENGINEERING
CLASS OF 2025

PLACEMENT UPDATE

TATA CONSULTANCY SERVICES

SAAIRITHVIK V

ADITHYA B

DEEPAKKUMAR V

SPIC

DEPARTMENT OF MECHANICAL ENGINEERING
CLASS OF 2025

INTERNSHIP UPDATE

List of Students gone for Internship during Dec 2024-Jan 2025

II Year Students (Batch: 2023-2027)

Adhilesh G	3122231002004	II Year	Self	Bonfiglioli Transmissions Pvt	23-12-2024
Akaspathan R	3122231002008	II Year	Self	Bonfiglioli Private Limited	23-12-2024
Harini Gomathi M	3122231002031	II Year	Self	Titan company	23-12-2024
Nakulya A S	3122231002064	II Year	Self	TITAN TEAL(Automation)	01-06-2025
Sowmya C	3122231002103	II Year	Self	Titan Company Ltd.	23-12-2024

III Year Students (Batch: 2022-2026)

Ajith V	3122221002006	III Year	Self	NLC INDIA LIMITED NEYVELI	30-12-2024
Ajith V	3122221002006	III Year	Self	NLC INDIA LIMITED NEYVELI	30-12-2024
Annamalai S	3122221002013	III Year	Self	NLC INDIA NEYVELI	30-12-2024
Annamalai S	3122221002013	III Year	Self	NLC INDIA NEYVELI	30-12-2024
ASHOK P	3122221002018	III Year	Self	NLC INDIA LIMITED	30-12-2024
ASHOK P	3122221002018	III Year	Self	NLC INDIA LIMITED	30-12-2024
ASHOK P	3122221002018	III Year	Self	NLC INDIA LIMITED	30-12-2024
Aswin S	2210621	III Year	Self	Defence Research and	23-12-2024
Aswin S	3122221002020	III Year	Self	Combat vehicle research	23-12-2024
AVINASH KRISHNA M	3122221002023	III Year	Self	NLC India, Neyveli	30-12-2024
AVINASH KRISHNA M	3122221002023	III Year	Self	NLC India, Neyveli	30-12-2024
AVINASH KRISHNA M	3122221002023	III Year	Self	NLC India, Neyveli	30-12-2024
Boobalan A	3122221002030	III Year	Self	NLC India, Neyveli	30-12-2024
Deva Darshan G K	3122221002032	III Year	Self	ZETTAONE TECHNOLOGIES	27-12-2024
G SHREEVATHSAN	3122221002105	III Year	Self	Sungov Engineering PVT Ltd	23-12-2025
GANESHRAM E	304	III Year	Self	NLC INDIA LIMITED - NEYVELI	30-12-2024
GANESHRAM E	304	III Year	Self	NLC INDIA LIMITED - Neyveli	30-12-2024
GANESHRAM E	304	III Year	Self	NLC INDIA LIMITED	30-12-2024
Gokulnath D	3122221002305	III Year	Self	TITAN WATCHES, hosur	23-12-2024
Hariharasudhan s	3122221002042	III Year	Self	NLC india limited , neyveli	30-12-2024
Hariharasudhan s	3122221002042	III Year	Self	NLC india limited, neyveli.	30-12-2024
Hariharasudhan s	3122221002042	III Year	Self	NLC india limited, neyveli	30-12-2024
Jaya Abinesh J S	3122221002048	III Year	Self	NLC INDIA LIMITED, NEYVELI	30-12-2024
Jaya Abinesh J S	3122221002048	III Year	Self	NLC INDIA LIMITED,NEYVELI	30-12-2024
Jaya Abinesh J S	3122221002048	III Year	Self	NLC INDIA LIMITED,NEYVELI	30-12-2024

DEPARTMENT OF MECHANICAL ENGINEERING
CLASS OF 2025

INTERNSHIP UPDATE

List of Students gone for Internship during Dec 2024-Jan 2025

III Year Students (Batch: 2022-2026)

Madhumitha G S	3122221002065	III Year	Self	First Feet Engineering and	21-12-2024
MAHESH RAJA R	3122 22 1002 066	III Year	Self	NLC India Limited Neyveli	30-12-2024
Mohamed Ameer Batcha S	3122221002070	III Year	Self	Boson motors	02-01-2025
Nakshathra A	3122221002075	III Year	Self	TVS Sundram fasteners	21-12-2024
Pooshan G	3122221002088	III Year	Self	Sungov Engineering Private	23-12-2024
R MAHESH RAJA	3122 22 1002 066	III Year	Self	NLC India Limited Neyveli	30-12-2024
Rahul Ayyappan Harish	3122221002090	III Year	Self	Hanon Automotive Systems	23-12-2024
Rahul Venkatesh	3122221002091	III Year	Self	Sona Comstar	24-12-2024
RITHIQ ROSHAN AH	3122221002094	III Year	Self	GOLDEN ROCK RAILWAY WORKSHOP INDIAN RAILWAY	30-12-2024
Rohan Reddy Yeluru	3122221002095	III Year	Self	Blendhub India	23-12-2024
Rohit V	3122 22 1002 097	III Year	Self	L&T EDRC	23-12-2024
Saravanan Venkatraman	3122221002102	III Year	Self	Southern Railway Central	30-12-2024
Sneha Valliammai	2210297	III Year	Self	Jakson Ltd	15-07-2024
Sriram S	3122221002112	III Year	Self	Axles india,Sriperumbudur	23-12-2024
Tamilselvan M	3122221002115	III Year	Self	NLC India limited Neyveli	30-12-2024

IV Year Students (Batch: 2021-2025)

Adhavan Suresh	3122 21 1002 005	IV Year	Self	Cyces Innovation LLC	17-02-2025
Anantha Narayanann R	3122211002013	IV Year	CDC	Amazon	13-01-2025
Bhavani K	3122211002026	IV Year	CDC	Caterpillar Inc	06-01-2025
Deepakkumar V	3122211002302	IV Year	CDC	SPIC	10-02-2025
Fabrizio J	3122211002034	IV Year	CDC	Rocketlane	29-01-2025
G.Ramji	3122211002073	IV Year	CDC	Kobelco	03-02-2025
Gowtham P S	3122211002035	IV Year	CDC	LaunchED	10-02-2025
Haresh Madhavan B	3122211002036	IV Year	CDC	Teceze	03-02-2025
M ATHISH	3122211002025	IV Year	Self	Rane Brake Lining Pvt Ltd	02-04-2024
Murali krishnan N	3122211002056	IV Year	CDC	Amazon	13-01-2025
Nithish Saran V	3122211002064	IV Year	CDC	Kobelco	03-02-2025
Raghav Subramaniam	3122211002068	IV Year	Self	Zoho ManageEngine	02-01-2025
Rahul P	3122211002069	IV Year	CDC	Teceze consultancy limited	03-02-2025
Sachin C	3122211002077	IV Year	CDC	Wise work	06-01-2025
Sairam R Sureshbabu	3122211002080	IV Year	CDC	Zoho Corporation	01-07-2025
Sairam R Sureshbabu	3122211002080	IV Year	CDC	Zoho Corporation	01-07-2025
Sairam R Sureshbabu	3122211002080	IV Year	CDC	Zoho Corporation	01-07-2025
Shruthi Premraj	3122211002096	IV Year	CDC	Amazon	13-01-2025
Sudharsan CS	3122211002106	IV Year	CDC	Valeo	31-01-2025
Tamilkumaran S	3122 21 1002 110	IV Year	CDC	Amazon	13-01-2025
THIRLOCHAN L	3122 21 1002 112	IV Year	CDC	Valeo India Private Limited	31-01-2025
Uvaraj G S	3122 21 1002 116	IV Year	CDC	Amazon	13-01-2025
Uvaraj G S	3122 21 1002 116	IV Year	CDC	Amazon	13-01-2025
V Sai Varun	3122211002079	IV Year	CDC	Kobelco	03-02-2025
V Sai Varun	3122211002079	IV Year	CDC	Kobelco	03-02-2025
V.Swarun	3122211002109	IV Year	CDC	Azentio Software Private	06-01-2025
Vetrivel S	3122211002118	IV Year	CDC	Wisework	02-01-2025
Vijay Ram Prasadh S	3122211002121	IV Year	CDC	PickYourTrail	05-03-2025

SIX-DAY FACULTY DEVELOPMENT PROGRAM (FDP) ATTENDED BY DR. D. ANANTHAPADMANABAN

Dr. D. Ananthapadmanaban attended a six-day Faculty Development Program (FDP) on Emerging Technologies for Industry 4.0 and beyond, which was successfully conducted under the guidance of Dr Venkatamuni, Professor, VSB Engineering College, Karur, and Mr. Vetriselvan, Assistant Professor from the same institution. Notably, Mr. Vetriselvan is also my part-time research scholar. The sessions were scheduled from 6 PM to 9 PM, making it a challenge to attend each session diligently. However, the wealth of knowledge shared made the experience truly enriching.
Day-Wise Session Summary as follows:

Day 1:
Dr. Venkiah, Associate Professor, IIT Tirupati, introduced the Additive Manufacturing (AM) process chain, Gartner Hype Cycle, and types of shape representations. He also elaborated on barriers to AM and secondary operations. Later, Dr. T. Ramesh from NIT Trichy discussed the innovative usage of waste plastic for useful materials. His talk included insights into the Harvard Robotic Lab and various AM techniques, introducing the term microfluidics.

Day 2:
Dr. Kumaraswami Naidu, Vice President, of Nobel Hygiene Pvt. Ltd., delivered an insightful session on Manufacturing Execution Systems (MES). He detailed its components, cost structure, and future trends. Dr. Srinivasa Pandiri, Director, UT Health, St. Antonio, USA, emphasized data-driven insights over mere data volumes. He spoke about predictive analytics, data visualization, and applications of Artificial Intelligence (AI) and Business Analytics (BI).

Day 3:
Dr. Vamsikrishna, Professor, NIT Warangal, explored precision finishing of 3D-printed components, covering surface finish techniques, support structure removal, heat treatment, and chemical treatment. He also explained Magnetic Abrasive Finishing (MAF) and Ultrasonic Assisted MAF. Dr. Srinivasulu, Managing Director, Engineering Research Services, elaborated on the importance of geometric and dimensional tolerance, explaining datum reference planes and their applications.

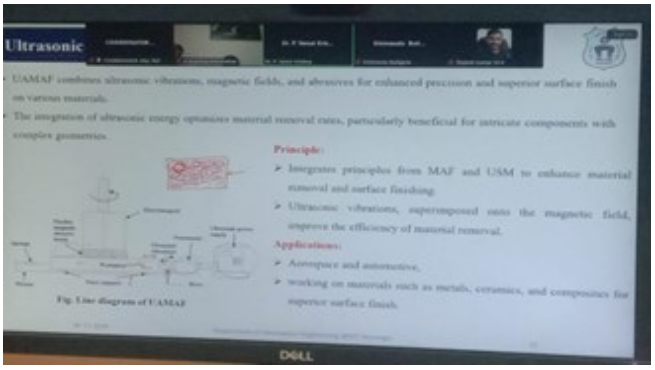
Day 4:
Dr. R. Vasudevan, Professor, VIT Vellore, delivered an engaging session on Green Manufacturing using AM, Home Manufacturing, and Layer Manufacturing. Mr. Nagaraj Pacha from JP Morgan Chase provided valuable insights into IT infrastructure, explaining On-Prem, Corporate, and Hybrid Infrastructure models.

Day 5:
Dr. P. Vamsikrishna, Professor, NIT Warangal, discussed AI and Machine Learning (ML) applications in machining, covering Artificial Neural Networks (ANN) and Fuzzy Logic. Mr. Venkat Sesha Reddy, Director, Grief Inc., USA, detailed the types of AI and their applications in teaching.

Day 6:
Dr. Babu shared techniques to enhance the surface quality of AM parts. Dr. T. Ramesh, Professor, NIT Trichy, discussed Supply Chain Management. Dr. R. S. Prasad, Head, Engineers India, elaborated on AI policy regulations and its transformative value. An online quiz was conducted on December 7, followed by a valedictory function to mark the conclusion of the program.

Key Takeaways from the FDP are as follows:

Attending and conducting a six-day FDP can be an exhaustive experience, requiring strong mental preparedness. Learning new concepts stimulates intellectual growth and provides a deep sense of satisfaction. These programs facilitate networking with industry professionals and academicians from premier institutions like IITs and NITs, while also helping in the renewal of existing contacts. This FDP served as an invaluable learning experience, offering a deeper understanding of emerging technologies shaping Industry 4.0 and beyond. Such programs pave the way for academic and professional growth, ensuring that faculty members stay updated with the latest advancements in their respective fields.



GUEST LECTURE ORGANIZED BY ASM STUDENTS CHAPTER- DR.D.ANANTHAPADMANABAN AND DR.S.SANTOSH

A guest lecture was organized by ASM Students Chapter- Dr.D.Ananthapadmanaban and Dr.S.Santosh , Faculty Co-Ordinators -ASM Students Chapter at 10.00 AM on 28th January 2025.Thetopic was future scope of semiconductors in India and the speaker was Mr Vaidya Baradwaj, Leader Tokyo Electronics India Project. There were around 50 participants, mostly 2nd and 3rd year students.

Salient points in the lecture were

- Growth of the semiconductor Industry following Moore's law
- Very few Semiconductor fabrication units in India
- Japanese Government involvement in Indian projects and opportunities for Indian students
- Simulation projects are available with TEL, Tokyo
- Our ASM students chapter chairman, Mr. Nitish Reddy was very active in organizing this event and stood by the faculty from start to finish. Hats off to him. He has also been active in motivating new students to join the ASM students' chapter.

Key Takeaways from the lecture are as follows:

- The Japanese Government is looking for huge investments in foreign countries, especially India. There is a lot of scope for collaborative work with Japan. The semiconductor field requires a lot of Mechanical and Chemical Engineers
- Basic research in lasers, plasma and simulation of processes has a lot of scope in the industry
- Japanese language knowledge is a huge plus to get jobs in Japan.

HOD ATTENDS AN INTERSCHOOL COMPETITION AS JUDGE

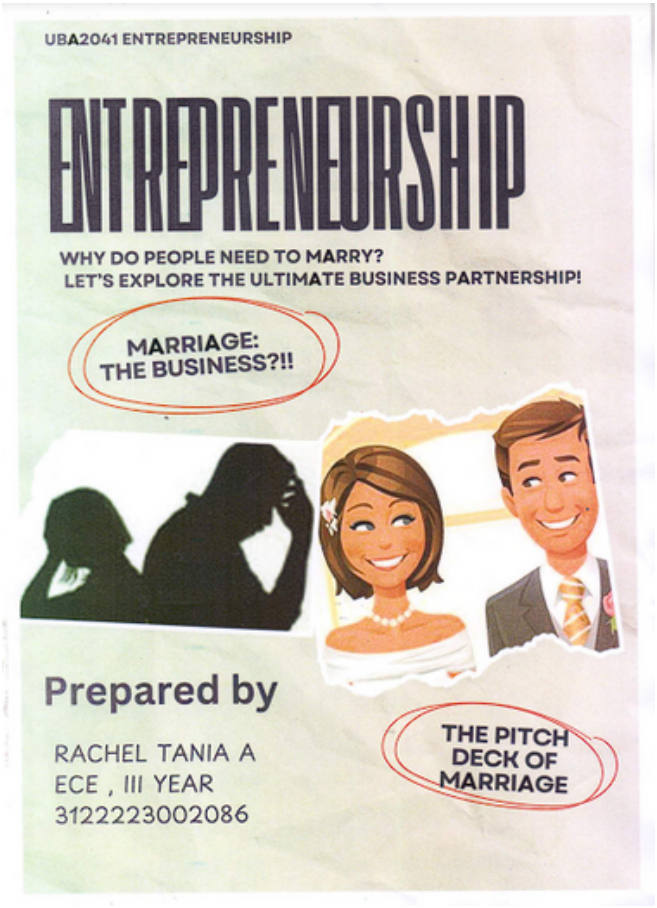
Of all the most challenging things in this world, nothing comes remotely close to managing tiny tots of kindergarten. Hats off to the teachers at primary schools who take care of kids in every possible manner and lay a platform for their future. That is handholding at its best. None of us would be even 10% of what we are, if not for the love, kindness and sacrifices of primary teachers. I had an opportunity to be a judge at a kindergarten inter-school competition on January 25th, at Ceedeeyes Public School, Thiruporur and was in awe of the teachers who spared no efforts to make the children perform and quietly basked in the outcome. Hats off to every primary school teacher in this world, they are the real stars, who create future stars!!!

DR. VIJAYAN SUNDARAVEL WRITES...

Dr. Vimal Samsingh and myself are handling Entrepreneurship open elective for students across the departments of SSN, this semester. As a part of the curriculum, we provide challenging topics for the students to pursue as an assignment. This time, the title is 'Marriage as a Startup: An Entrepreneurial Perspective'!!!

Of the many nice ones that were submitted, this one by Rachel Tania, ECE III year stands out for its extraordinarily outspoken take on marriages. It is very practical yet delivers a pinch of gritty punch for anyone, I suppose.
Very nuanced! Very entrepreneurial! Oozing with innovations in its presentation!!

What could be more satisfying for a teacher than to share with pride their students' creations? You can find it as an attachment to this edition (with her consent, of course)! Have fun reading it!



HANDS-ON WORKSHOP ON APPLICATIONS OF ANSYS SOFTWARE FOR NEW PRODUCT INNOVATION AND ANALYSIS

Dr.S.Suresh kumar and Dr.M.Nalla Mohamed, Associate Professor, Department of Mechanical Engineering, SSNCE, have successfully conducted one day hand-on workshop titled “Applications of ANSYS software for new product innovation and analysis” on 25th January 2025, in Department of Mechanical Engineering, SSNCE.

ONE-DAY WORKSHOP ON AWARENESS OF MSME SCHEMES OFFERED FOR START-UPS

Dr.R.Vimal Sam Singh and Dr.S.Vijayan from Mechanical conducted One Day workshop on Awareness on MSME Schemes offered for Start Ups.

DR S A SRINIVASAN, Dr. SANTOSH PRESENTED IN INTERNATIONAL CONFERENCE

Dr. S.A.Srinivasan, and Dr. Santosh presented a poster entitled SQUEEZE CAST DISPERSION STRENGTHENED QUARTERNARY ALUMINIUM ALLOY METAL MATRIX COMPOSITE—DAMPING BEHAVIOR at the International Conference on Processing of Advanced Materials and Fabrication of Products—XXX organised by IIT Madras during December 11-13, 2024.

DR K S VIJAY SEKAR INVITED AS AN EXTERNAL EXAMINER AT CEG ANNA UNIVERSITY

Dr KS Vijay Sekar/Prof/Mech was invited as an External Examiner for ME Manufacturing systems project viva at CEG, Anna University on 08.01.2025

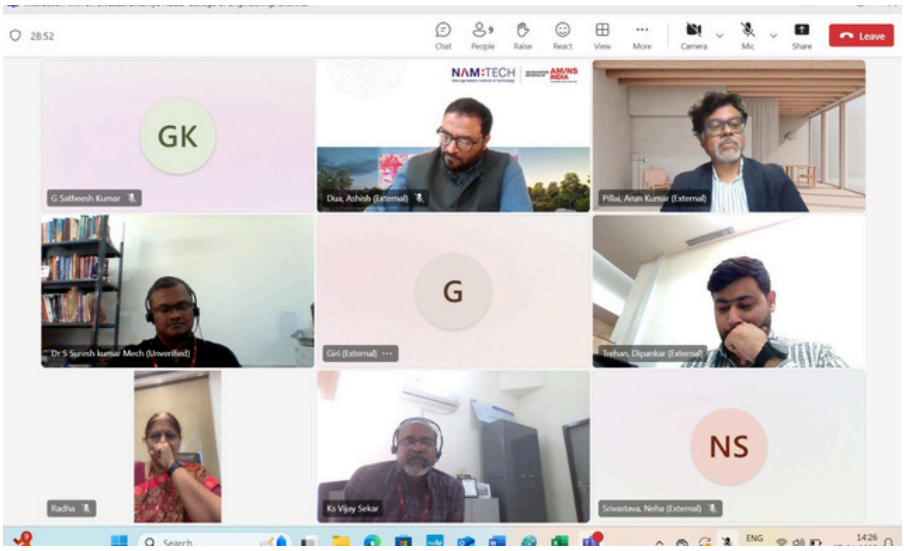
DR M SURESH VISITED THE COMBAT VEHICLES RESEARCH & DEVELOPMENT ESTABLISHMENT (CVRDE)

Dr M Suresh visited Combat Vehicles Research & Development Establishment (CVRDE) on 10.01.2025 along with Dr S. Jayavel, Professor, Dept. of Mechanical Engineering, IIITDM, Kancheepuram, to discuss with Mr Subhadip Roy, Scientist-E, about methods of implementing vapour absorption cooling system in armoured vehicles.

HANDS-ON WORKSHOP ON CAD FUNDAMENTALS USING AUTODESK FUSION 360

Dr. S. Suresh Kumar and Dr M. Nalla Mohamed organized a hands-on workshop titled “CAD Fundamentals using Autodesk Fusion 360” on 23rd and 24th January 2025. Industry Expert (Mr. Yasar Arafath) from USAM Technologies, pvt ltd Chennai, handled the sessions.

HOD ORGANIZES ONLINE MEETING WITH NAMTECH, GUJARAT



We organized an online meeting with NAMTECH, Gujarat to discuss mutually fulfilling academic/ research collaborations on January 27th. NAMTECH has set up innovative schools in manufacturing and sustainability has tied up with IITM, IITR and IITP and wishes to partner with SSN on cutting-edge areas. In this regard, a team from NMATECH and a team from SSN that included me, our Principal, the CEO of SSN iFound and colleagues from our department attended the online discussions. We have extended an invitation to the NAMTECH team to visit SSN to take the discussions forward.

PROJECT SANCTIONED

28/01/2025	The Project titled, "Experimental and Numerical Investigation on Pulsating Heat Pipe for Enhanced Thermal Management of Energy-Intensive Devices" has been sanctioned with the amount of Rs.5.5 lakhs/- by the SSNCE through internal faculty funded project. The PI of this project is Dr. Laxman Kumar Malla.

INTERNATIONAL JOURNAL PUBLICATION

28/01/2025	D. T. Vempany, L. K. Malla, H. Dileep, P. S. Mahapatra, P. Srivastava, A. Pattamatta published a paper titled “A novel antiparallel flat plate pulsating heat pipe for thermal management of electronics” in the journal “Experimental Heat Transfer”.

SCHOLAR INFO

23/01/2025	Dr.Prakash's part-time Ph.d student Mr.Jai Ganesh J submitted his thesis on 23.01.2025

NON-TEACHING STAFF ACTIVITIES

03/01/2025	Mr. Balasundaram P/ Assistant. Lab Instructor / Mechatronics and Automation Lab / Mechanical / Attended One Day ADROITEC Webinar On "Conjugate Thermal FSI Analysis", January 3rd, 2025, At 12:00 Pm
24/01/2025	Mr. S. Nagarajan, Lab Supervisor / Department of Mechanical Engineering Attended The 2 Days Hands-On Workshop On "Fusion CAD Fundamentals and Generative Design with Autodesk Fusion 360" on 23rd And 24th January 2025, conducted by the Department of Mechanical Engineering, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam with support of USAM Technology Solutions Pvt. Ltd Chennai.

TARUNRAJ FROM THIRD YEAR WRITES...

I am Tarunraj, a 3rd-year Mechanical Engineering student, and I had the incredible opportunity to intern at Ashok Leyland. This experience was highly enriching, providing me with valuable industry exposure. During my internship, I worked in the logistics, manufacturing, and assembly units, where I gained hands-on experience in various processes.

In the logistics department, I learned about supply chain management and the efficient movement of materials. The manufacturing unit exposed me to cutting-edge production techniques, while the assembly unit helped me understand vehicle integration and quality control. Working in such a dynamic environment enhanced my technical skills and deepened my understanding of industrial operations.

This internship not only strengthened my practical knowledge but also improved my problem-solving and teamwork abilities. I am grateful for this opportunity, which has significantly contributed to my professional growth and prepared me for future challenges in the mechanical engineering field.

MAHESH RAJA FROM THIRD YEAR WRITES...

I recently had the opportunity to intern at Neyveli New Thermal Power Station(NNTPS) from 21st December 2024 to 10th January 2025, gaining valuable hands-on experience in the field of mechanical engineering. My internship focused on the"Turbines and Its Auxiliary," where I was deeply involved in understanding and practicing maintenance procedures.

During this period, I learned about preventive maintenance, which plays a crucial role in ensuring the longevity and efficiency of turbines. I also gained insights into breakdown maintenance, where I observed how unexpected failures are handled and how quick, effective repairs are essential to minimize downtime. Additionally, I was introduced to the overhauling procedures and plans, which are vital for the periodic restoration of the turbine's performance and reliability. This internship provided me with practical exposure to the complexities of maintaining and overhauling turbines, reinforcing the theoretical knowledge I have gained in my mechanical engineering studies. It has significantly enhanced my understanding of power station operations and the importance of meticulous maintenance planning in ensuring continuous and efficient power generation.

MUTHUVELAN MUTHARASU (MECH 2024) SHARES...

Life after college has been nothing less than a rollercoaster ride for me. I graduated in May 2024, emerging into a world I used to hear described as rough and demanding. During my college years, I perceived much of that talk to be exaggerated. But soon, we realized that our professors were creating a safe and nourishing cocoon around us. The world, after I got out of that cocoon, is a world that is beautiful, amazing, engaging, busy, competitive, and sometimes even toxic and problematic.

Joining Caterpillar in July 2024 was the beginning of my transformative journey. There, I finally realized what true engineering is all about and the subtleties of continuous improvement and process optimization. The experience taught me that success stems from unwavering belief in systems and processes rather than individual reliance. Working with Solar Turbines, a Caterpillar company, has further enriched my understanding. My role in supporting turbine design and structures for manufacturing in San Diego, USA, has emphasized critical values like safety and compliance, which are prioritized above all else, shaping both my professional discipline and approach to engineering challenges.

While I am still relatively early in my career and do not feel experienced enough to give advice, I would like to share a few insights I have learned. Life after college can indeed be challenging, even daunting at times. Simple things like finding a house, cooking for yourself, and managing a 9-hour workday can feel overwhelming. Yet, these experiences also teach you resilience and independence. The most important resource you enjoy during your college years is time. Use time to explore, learn, and grow. From what I look back in my mind, I wish I could have utilized it to the fullest.

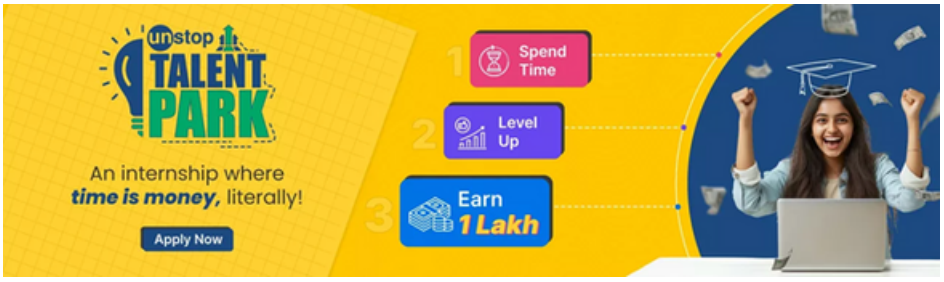
The greatest source of freedom is time, so spend it properly. Don't let it go to waste. Take up projects, study hard, and aim at getting a good job or higher studies. But always keep a balance in all things—work hard, party harder, enjoy with friends, and hold on to all these memories because college days are something that cannot be replaced by anything else.

I thank Dr Vimal Sam Singh and our HOD, Dr Vijay Sekhar, for the guidance and mentorship given to me. They made me who I am today, pushing me to take that extra step and never stopping me. I wish you a very happy new year, dear students reading this. May you all kick-start 2025 with great enthusiasm. Make the most of your time in college and strive to be the best version of yourself.

No Competition, No Progress

Unstop Talent Park 2025

Link: *Register here*



Tata Crucible Corporate Quiz 2025

Tata Group

Link: *Register Here*

Road Safety Hackathon

Link: *Register Here*

From the desk of Ramki – Aspire to Inspire

From Ramki
Happy Morning – Aspire to Inspire

Start the Day with a winning Note

We decide to wake up at such and such a time the next morning. We set up the wake-up call. The little gizmo simply responds to our settings by ringing the wake-up tone.

But...

Waking up is a mental phenomenon and getting up is a physical phenomenon. Between these two phenomena there is a gap, and that gap lies the first psychological defeat of the day.

In the gap between waking up and getting up, the body prevails over the mind. The body.. supposedly the lower convinces the mind.. supposedly the higher; to either overlook the wake-up call or snooze it and sleep a little longer. Instead of mind over body, the scenario becomes body over mind. By surrendering to that gap we begin our day with a defeat of not obeying our own decisions.

When we cannot even live up to our own private promises and personal commitments how much can we expect from our life? What can we expect from a day that starts on a defeat?

The very first experience of the day is negative. The very first impression we create every day is that we do not even have control over our own body. Then , where is the question of gaining control over life & others?

Attitudes don't care where we shape them, but once shaped they express themselves in all quarters of our lives, either by creating us or destroying us. By postponing and not getting up at the pre-decided time, we develop the attitude of procrastinating. And, this attitude to procrastinating hurts us in all aspects of life.

So, let every day of ours in the year 2025 begin only on a winning note. Let us conquer the gap between waking up and getting up. Let our waking and getting up be simultaneous in 2025.

#WishingMostAndMore

HELP US IMPROVE!

TELL US WHAT YOU THINK

FEEDBACK_FORM

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