



**Vel Tech High Tech**  
**Dr. Rangarajan Dr. Sakunthala Engineering College**  
An Autonomous Institution  
(Approved by AICTE, New Delhi Affiliated to Anna University, Chennai)  
**DEPARTMENT OF MECHANICAL ENGINEERING**

**NEWSLETTER APR TO JUN 2022**

**GUEST LECTURE**

S.NO.	DATE	TITLE	RESOURCE PERSON	CLASS
1	28-05-2022	Statistics and Numerical Met	Dr. S. Anbarasu, Associate Professor, M.I.T, Anna University Campus – Chromepet – Chennai – 44.	II / IV Sem
2	28-05-2022	Benefits of CAE in Research & Development	Mr. S. Seenuvas, Assistant Manager R&D Electrical vehicle SonacomstarPvt Ltd	III / VISem
3	02-06-2022	Recent trends and future of IC engines	Mr. BalamuruganRathinam, Manager – Combustion and thermo hydraulics, Renault Nissan Technology & Business Centre India Ascendas IT Park, Mahindra World City SEZ, No. T P 2/1, Natham Sub Post Office, Chengalpet, Kancheepuram District, Tamil Nadu – 603 004.	III / VISem

  
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Engineering College  
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GUEST LECTURE ON  
**Statistics and Numerical Methods**  
BY  
  
Dr. S. Anbarasu, Associate Professor,  
M.I.T, Anna University Campus – Chromepet – Chennai - 44  
**Venue:** M202 (Class Room)  
Organized by  
**Department of Mechanical Engineering**  
**FOR SECOND YEAR /IV SEMESTER STUDENTS**  
**Date:** 28<sup>th</sup> May 2022  
**TIME:** 10:25 AM to 12:00 PM



GUEST LECTURE ON

Benefits of CAE in Research & Development BY



Mr. S. Seenuvas, Assistant Manager,  
R&D Electrical vehicle,  
Sona comstar Pvt Ltd, Chennai, Tamil Nadu, India.

**Venue: ONLINE (ZOOM MEET)**

<https://zoom.us/j/6985444137?pwd=MVFIUEXkd2F2NzNlV1Vydzh6V3RTUT09>

Organized by

**Department of Mechanical Engineering**  
**FOR III YEAR / VI SEMESTER STUDENTS**

**Date: 28<sup>th</sup> May 2022**

**TIME: 10:25 AM TO 12:00 PM**



GUEST LECTURE ON

**Recent trends and future of IC engines**

BY



Mr. BALAMURUGAN RATHINAM,  
Manager – Combustion and thermo hydraulics,  
Renault Nissan Technology & Business Centre India  
Chengalpet, Kancheepuram District Tamil Nadu – 603 004.

**Venue: ONLINE (ZOOM MEET)**

<https://zoom.us/j/6985444137?pwd=MVFIUEXkd2F2NzNlV1Vydzh6V3RTUT09>

Organized by

**Department of Mechanical Engineering**  
**FOR III YEAR / VI SEMESTER STUDENTS**

**Date: 2<sup>nd</sup> June 2022**

**TIME: 10:25 AM TO 12:00 PM**

## WORKSHOPS

S.NO.	DATE	TITLE	RESOURCE PERSON	CLASS
1	22-04-2022 & 23-04-2022	Introduction to Finite Element Analysis for heat transfer Simulation	Dr. M.Piramanandhan, Leading Mechanical R&D Team ESAB – Engg. Services Division (Global R&D Center) ESAB India Ltd,G-22,SIPCOT Industrial Park, Irungattukottai, Sriperumbudur, Chennai-602 117	III / VI (A & B)
2	12-05-2022	Design of single cylinder engine using Pro -E/Creo	Mr. Ranjith Kumar M, Managing Partner, i3 CADD, Avadi – Chennai – 54.	II / III Sem
3	13-05-2022	Turbocharger working and its design	Mr. Ranjith Kumar M, Managing Partner, i3 CADD, Avadi – Chennai – 54.	III / VI (A & B)






**Vel Tech High Tech**  
 Dr.Rangarajan Dr.Sakunthala Engineering College  
 (An Autonomous Institution)  
 Department of Mechanical Engineering  
 WS-22 presents P-212

**Two Days Workshop on**  
**Introduction to Finite Element Analysis**  
**for Heat Transfer Simulation**  
 22.04.2022 & 23.04.2022

**Time:** 10:25 am to 03:15 pm  
**Venue:** Ramenujam Hall

 **Dr. M. Piramanandhan,**  
 ESAB – Engg. Services Division  
 (Global R&D Center).

**Chief Patron**  
 Col.Prof. Dr. M. Shri. Dr.Rangarajan,  
 Founder President and Chairman

**Convener**  
 Dr. R. Suresh  
 Dean/SuMC

**Co-Chairman**  
 Dr. N. Geyasri,  
 HoD/Mechanical

**Patron**  
 Dr. E. Kamalambalan,  
 Principal

**Coordinators**  
 Mr. R. Palani  
 Assistant Professor/Mechanical







### VALUE ADDED COURSES (VAC)

S.NO	DATE	TITLE	RESOURCE PERSON	VENUE	CLASS
1	28.04.2022 to 30.04.2022 (20 Hours)	“Programming Essentials in C”	Mrs.S.Kavitha, Assistant Professor - Department of CSE, Vel Tech High Tech Dr. RR Dr.SR Engineering College, Chennai. & Mrs.J.Elavarasi, Assistant Professor - Department of CSE, Vel Tech High Tech Dr. RR Dr.SR Engineering College, Chennai.	Vel Tech High Tech Dr. Rangarajan Dr. Sagunthala Engineering College, Chennai.	III / VI (A & B)
2	28.04.2022 to 30.04.2022 (3 days)	“CNC Turning and Vertical Machining”	Vel Tech Technology Business Incubator (Vel Tech TBI)	Vel Tech Dr. Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai	II / III Sem


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**Department of Mechanical Engineering**  
 presents  
**Value Added Course on**  
**“Programming Essentials in C”**  
 Date : 28.04.2022 & 30.04.2022 (20 Hours)



**Mrs.S.Kavitha,**  
*Assistant Professor - Department of CSE,  
 Vel Tech High Tech, Dr.Rangarajan Dr.Sakunthala  
 Engineering College, Chennai.*



**Mrs.J.Elavarasi,**  
*Assistant Professor - Department of AI&DS,  
 Vel Tech High Tech, Dr.Rangarajan Dr.Sakunthala  
 Engineering College, Chennai.*

<p><b>Chief Patrons</b></p> <p><b>Col. Prof. Vel. Shri. Dr. Rangarajan,</b> <i>Founder President and Chairman</i></p> <p><b>Dr. Sakunthala Rangarajan,</b> <i>Vice Chairman</i></p> <p><b>Patron</b></p> <p><b>Prof. Dr. E. Kamalanaban,</b> <i>Principal</i></p>	<p><b>Convenors</b></p> <p><b>Dr. R. Suresh,</b> <i>Dean / SoMC</i></p> <p><b>Dr. N. Gayathri,</b> <i>HoD / Mechanical</i></p> <p><b>Co-Convenor</b></p> <p><b>Dr. R. Anbazhagan,</b> <i>Associate Professor/ Mechanical</i></p> <p><b>Co-ordinator</b></p> <p><b>Mr. V. Nagarajan,</b> <i>Assistant Professor/ Mechanical</i></p> <p style="text-align: center;"><b>Venue: Computer Lab Bay 1 &amp; Ramanujam Seminar Hall</b></p>
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**Department of Mechanical Engineering**  
 presents  
**Three Days Value Added Course on**  
**“CNC Turning and Vertical Machining”**  
 Date : 28.04.2022 & 30.04.2022  
 Time: 08.00 am to 04.00 pm

**Vel Tech Technology Business Incubator**  
**(Vel Tech TBI)**  
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai.

<p><b>Chief Patrons</b></p> <p><b>Col. Prof. Vel. Shri. Dr. Rangarajan,</b> <i>Founder President and Chairman</i></p> <p><b>Dr. Sakunthala Rangarajan,</b> <i>Vice Chairman</i></p> <p><b>Patron</b></p> <p><b>Prof. Dr. E. Kamalanaban,</b> <i>Principal</i></p>	<p><b>Convenors</b></p> <p><b>Dr. R. Suresh,</b> <i>Dean / SoMC</i></p> <p><b>Dr. N. Gayathri,</b> <i>HoD / Mechanical</i></p> <p><b>Co-Convenor</b></p> <p><b>Mr. V. Nagarajan,</b> <i>Assistant Professor/ Mechanical</i></p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><b>Manufacturing Centre of Excellence,              Vel Tech Rangarajan Dr. Sagunthala R&amp;D              Institute of Science and Technology,              Chennai.</b></p> </div>
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## INDUSTRIAL VISIT

**Visit No.: 1**

**Place of Visit:** Ennore Thermal Power Station-Ennore,Chennai.

**Date of Visit:** 8th April 2022.

The Department of Mechanical Engineering arranged an Industrial Visit on 8th April 2022 to Ennore Thermal Power Station-Ennore,Chennai., for the IV Semester Students. Faculties Mr. V. Nagarajan, Assistant Professor and Mr. R. Manjunathan, Assistant Professor, Department of Mechanical Engineering accompanied the students to the visit.

This industrial visit made the students explore the steps involved in the power generation by means of thermal energy and also they learnt about the machines and their unit operations in the power generation and maintenance and supply of power.



**Visit No.: 2**

**Place of Visit:** Pennar Industries Pvt Ltd-Periyapalayam.

**Date of Visit:** 12th April 2022.

The Department of Mechanical Engineering arranged an Industrial Visit on 12th April 2022 to Pennar Industries Pvt Ltd-Periyapalayam., for the IV Semester Students. Faculties Mr. V. Nagarajan, Assistant Professor and Mr. K. Mariyappan, Assistant Professor, Department of Mechanical Engineering accompanied the students to the visit.

This industrial visit made the students explore the industrial environment and also they learnt about the machines and their unit operations used in the production of steel components in a scalar quantity.





**Visit No.: 3**

**Place of Visit:**SatishDhawan Space Research Centre - Sriharikotta.

**Date of Visit:** 9th June 2022.

The Department of Mechanical Engineering arranged an Industrial Visit on 9th June 2022 to SatishDhawan Space Research Centre-Sriharikotta, for the VI Semester Students. Faculties Mr. R. Manjunathan, Assistant Professor , Mr. K. Mariyappan, Assistant Professor , Mr. S. Rajamanickam, Assistant Professor and Mr. V. Yogesh, Assistant Professor, Department of Mechanical Engineering accompanied the students to the visit.

This industrial visit made the students explore the launch pad, pre-launch work stations, and also they learnt about the mechanism involved and procedures to be followed for a rocket launch.







## STUDENTS CORNER

### Student Participation in Workshop

S. NO.	YEAR/ SEM	NAME	NAME OF THE EVENT	TITLE OF THE EVENT	DATE	COMPANY/ INSTITUTE NAME
1	III/VI	Raghul A	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
2	III/VI	Ram Kumar M	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.



3	III/VI	PasupuletiLikith	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
4	III/VI	MamidiGnanasai	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
5	III/VI	Pooja S	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
6	III/VI	Rishi Rathnam U	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
7	III/VI	Sai Siva K N	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
8	III/VI	Rohith P	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
9	III/VI	Nithin M	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
10	III/VI	Veerakumar	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
11	III/VI	Gokul Prasad I	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
12	III/VI	Gokul U	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
13	III/VI	Gokula Krishnan S	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.

14	III/VI	Nikhil G	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
15	III/VI	Yogeshwaran T	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
16	III/VI	Prawin Kumar R	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
17	III/VI	Rahul B	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
18	III/VI	Sethu Raja M	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
19	III/VI	Venkata Praveen M	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
20	III/VI	Saran S	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
21	III/VI	Suriya R	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
22	III/VI	Sanjeev Kumar A	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
23	III/VI	Hariharan P	Two Days Workshop	Additive Manufacturing	13/05/2022 & 14/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.

### Student Participation in Conference

S. NO.	YEAR/ SEM	NAME	NAME OF THE EVENT	TITLE OF THE EVENT	DATE	COMPANY/ INSTITUTE NAME
1	III/VI	Nithin M	Conference	Advances In Nanomaterials	09/05/2022	SSN College Of Engineering, Chennai
2	III/VI	Prabhakaran P	Conference	Advances In Nanomaterials	09/05/2022	SSN College Of Engineering, Chennai
3	III/VI	Shahabuddin T	Conference	Advances In Nanomaterials	09/05/2022	SSN College Of Engineering, Chennai
4	III/VI	Santhosh G	Conference	Advances In Nanomaterials	09/05/2022	SSN College Of Engineering, Chennai
5	III/VI	TarunVikram S	Conference	Advances In Nanomaterials	09/05/2022	SSN College Of Engineering, Chennai
6	III/VI	Thameem Ansari A	Conference	Advances In Nanomaterials	09/05/2022	SSN College Of Engineering, Chennai
7	III/VI	Ankit Kumar R	Conference	Advances In Nanomaterials	09/05/2022	SSN College Of Engineering, Chennai
8	III/VI	Pari Mohan M	Conference	Advances In Nanomaterials	09/05/2022	SSN College Of Engineering, Chennai
9	III/VI	Sanjay Kumar S	Conference	Advances In Nanomaterials	09/05/2022	SSN College Of Engineering, Chennai

### Student Participation in Symposium

S. NO.	YEAR/ SEM	NAME	NAME OF THE EVENT	TITLE OF THE EVENT	DATE	COMPANY/ INSTITUTE NAME
1	III/VI	Madhavan M	National Level Technical Symposium	Technical Quiz, Mechronz&Dracarys 2022	27/05/2022	Sriram Engineering College, Chennai.
2	III/VI	Lokesh S	National Level Technical Symposium	Technical Quiz, Mechronz&Dracarys 2022	27/05/2022	Sriram Engineering College, Chennai.
3	III/VI	Keerthivasan D	National Level Technical Symposium	Technical Quiz, Mechronz&Dracarys 2022	27/05/2022	Sriram Engineering College, Chennai.



4	III/VI	Nithish Kumar	National Level Technical Symposium	Technical Quiz, Mechronz&Dra carys 2022	27/05/2022	Sriram Engineering College, Chennai.
5	III/VI	Ajesh M A	National Level Technical Symposium	Vehicle Building Event, Mechgust 2022	24/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
6	III/VI	Ajesh M A	National Level Technical Symposium	Cycle Assembly, Mechgust 2022	24/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
7	III/VI	Ajesh M A	National Level Technical Symposium	CAD Modelling, Mechgust 2022	24/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
8	III/VI	Shree Varshan	National Level Technical Symposium	Vehicle Building Event, Mechgust 2022	24/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
9	III/VI	Shree Varshan	National Level Technical Symposium	Cycle Assembly, Mechgust 2022	24/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
10	III/VI	Shree Varshan	National Level Technical Symposium	CAD Modelling, Mechgust 2022	24/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
11	III/VI	Shree Varshan	National Level Technical Symposium	Chess Competition, Mechquest 2022	24/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
12	III/VI	Saran S	National Level Technical Symposium	Vehicle Building Event, Mechgust 2022	24/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
13	III/VI	Saran S	National Level Technical Symposium	Cycle Assembly, Mechgust 2022	24/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
14	III/VI	Saran S	National Level Technical Symposium	CAD Modelling, Mechgust 2022	24/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.

15	III/VI	Saran S	National Level Technical Symposium	Chess Competition, Mechquest 2022	24/05/2022	Chennai Institute Of Technology, Kundrathur, Chennai.
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### Student Participation in NaanMudhalvan Event

S. NO.	YEAR/ SEM	NAME	NAME OF THE EVENT	TITLE OF THE EVENT	DATE	COMPANY/ INSTITUTE NAME
1	II/IV	Ruban	NaanMudhalvan Scheme Event	Techknow 2022 Organized by Aimo And Anna University	23/04/2022 & 24/04/2022	CEG Anna University

### FACULTY CORNER

#### SAE Event Organized

S. NO.	NAME	NAME OF THE EVENT	TITLE OF THE EVENT	DATE	RESOURCE PERSON	COMPANY/ INSTITUTE NAME
1	Mr. Rajamanickam S & Mr. Yogesh V	SAE Event	Self Driving Car Challenge	13/05/2022	Praveen Kumar, MC Member, Saeiss	Vel Tech High Tech Dr. RR Dr. SR Engineering College

### Faculty participation in Faculty Development Programme (FDP)

S. NO.	NAME OF FACULTY	FDP ON	Organized by	NO OF DAYS	DATE
1	Mr. Rajamanickam S	Six Days Faculty Development Program on "Envisioning Pathways In Thermal Sciences"	Department of Mechanical Engineering, SRM Institute of Science and Technology - Ramapuram Campus in association with Feast - Engg Online, Mumbai.	6	23/05/2022 to 28/05/2022
2	Mr. Yogesh V	Six Days Faculty Development Program on "Envisioning Pathways In Thermal	Department of Mechanical Engineering, SRM Institute of Science and Technology - Ramapuram Campus in	6	23/05/2022 to 28/05/2022

		Sciences”	association with Feast - Engg Online, Mumbai.		
3	Mr. Velmurugan S	Robotic Process Automation Associate (UiPath)	ICT Academy at R.M.K. Engineering College	5	06/06/2022 to 10/06/2022

### Faculty participation in Webinar/ Workshop

S. NO.	NAME OF FACULTY	NAME OF THE EVENT	TITLE OF THE EVENT	DATE
1	Mr. Rajamanickam S	Webinar	Digital Twin In Robotics	25/05/2022
2	Mr. Yogesh V	International webinar	International webinar on hybrid vehicles, Top Engineers	25/06/2022

### Faculty Publication

S. NO.	NAME OF THE FACULTY	TITLE OF THE PAPER/ BOOK/ BOOK CHAPTER	JOURNAL/ PUBLISHER	VOLUME/ ISSUE / PAGE NO./ DOI	MONTH & YEAR PUBLISHED
1	Dr. N. Gayathri	Implementation of Artificial Neural Network to Predict Diabetes with High-Quality Health System	Computational Intelligence and Neuroscience, Hindawi. <a href="https://doi.org/10.1155/2022/1174173">https://doi.org/10.1155/2022/1174173</a>	Volume 2022, Article ID 1174173, 7 pages	May 2022
2	Mr. S. Hari Krishna Raj	Performance and Experimental Analysis of Al-Al <sub>2</sub> O <sub>3</sub> Metal Matrix Composites	International Journal of Vehicle Structures & Systems	Volume 4 Issue 2 page 257-259	April 2022



3	Mr. V. Yogesh	Optimization of Ultrasonically Welded High-Density Polyethylene with Medium-Density Polyethylene.	Recent Advances in Materials and Modern Manufacturing A Part of the Lecture Notes in Mechanical Engineering book series (LNME). Pages: 493-506.  Publisher: Springer Nature Singapore. Electronic ISSN: 2195-4364, Print ISSN: 2195-4356	DOI: 10.1007/978-981-19-0244-4_48	June 2022
4	Mr. V. Yogesh	Experimental Assessment of Brake Thermal Efficiency and Exhaust Emissions of a Non-road Genset Diesel Engine Fueled with Aloevera Emulsified Diesel Fuel.	Recent Advances in Materials and Modern Manufacturing A Part of the Lecture Notes in Mechanical Engineering book series (LNME). Pages: 493-506.  Publisher: Springer Nature Singapore. Electronic ISSN: 2195-4364, Print ISSN: 2195-4356	DOI: 10.1007/978-981-19-0244-4_49	June 2022