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III YearMech
Mr. P. Sethu
Mr. S. Logesh Kumar

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SPARK

**DEPARTMENT OF
MECHANICAL ENGINEERING**

VISION

To produce globally competent mechanical engineers to meet the changing needs of industries through innovative academic processes, research and value based education.

MISSION

The Department of Mechanical Engineering is committed to,

- ❖ Provide fundamental and skill based education in mechanical engineering through innovative practices in teaching and learning
- ❖ Collaborate with reputed industries, professional bodies and research laboratories for establishing Centre of Excellence
- ❖ Imbibe ethical behavior and morality for social upliftment to uphold human values.

PROGRAM EDUCATION OBJECTIVES (PEO)

- ❖ **PEO1:** The graduates of mechanical engineering will have a successful professional career in their related field of engineering to meet the changing needs of various stakeholders.
- ❖ **PEO2:** The graduates of mechanical engineering will involve in technology advancements through continuing education.
- ❖ **PEO3:** The graduates of mechanical engineering will practice their profession with good leadership skills and ethical values.

PROGRAM SPECIFIC OUTCOMES (PSO)

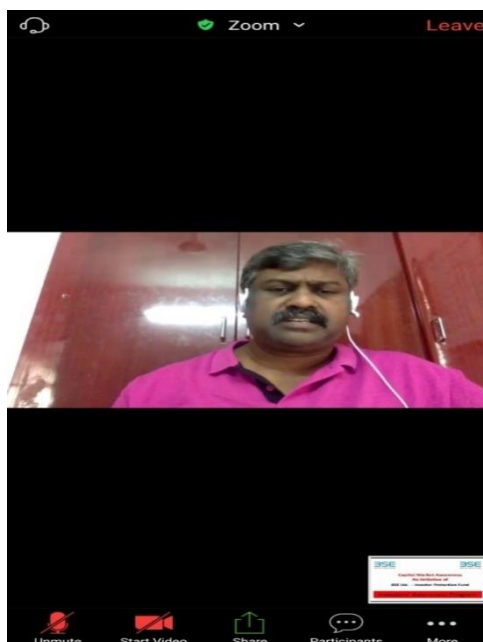
A graduate of Mechanical Engineering should:

- ❖ **PSO 1:** Apply mechanical engineering principles to design, develop and implement advanced machine/mechanical systems or process for better performance and less human effort.
- ❖ **PSO 2:** Ensure quality by applying quality tools, maintenance principles and managerial skills to comprehend the mechanical engineering processes, products and services.

DEPARTMENT NEWS

PROGRAMS ORGANIZED

- 1) Department of Mechanical engineering in association with Indian Welding Society (IWS) organized an expert lecture on “Investor Awareness Program” on 04.12.2021. Mr. C.K. Arivazhagan, MSME member & Bosch Employability Skills Training Programme, has delivered a wonderful lecture during the session for First year Mechanical engineering program.



FACULTY PUBLICATIONS

INTERNATIONAL JOURNALS:

1. Vasanthaseelan S., Joel E., A.E. Kabeel, Bharathwaaj R., Ravishankar Sathyamurthy, B. Madhu, Multi-intractable analysis for alternative Diesel–Ethanol–Canola methyl ester ternary blend, Energy Reports, Volume 8, Supplement 1, 2022, Pages 455-462, <https://doi.org/10.1016/j.egy.2021.11.051>. (SCIE, IF=6.87) (<https://www.sciencedirect.com/science/article/pii/S2352484721011951>)
2. Nitish Kaushik, P. Saravanakumar, S. Dhanasekhar, Rajasekaran Saminathan, Moti Lal Rinawa, Ram Subbiah, Rajneesh Sharma, P. Manoj Kumar, Thermal analysis of a double-glazing window using a Nano-Disbanded Phase Changing Material (NDPCM), Materials

- Today: Proceedings, 2021, <https://doi.org/10.1016/j.matpr.2021.11.537>
(<https://www.sciencedirect.com/science/article/pii/S221478532107560X>)
3. D. Ramya, A. Krishnakumari, P.T. Dineshkumar, Mudit Prakash Srivastava, L. Vadivel Kannan, G. Puthilibai, P. Manoj Kumar, Investigating the influence of nanoparticle disbanded phase changing material (NDPCM) on the working of solar PV, Materials Today: Proceedings, 2021, <https://doi.org/10.1016/j.matpr.2021.11.419>.
(<https://www.sciencedirect.com/science/article/pii/S2214785321074423>)
 4. Prakash K , Subramaniyan , Chandrasekaran , Kalidasan , Amarkarthik , Manoj Kumar , Saravanakumar, Experimental Analysis of the Vapour Compression Refrigeration System with Microchannel Condenser using R134a and R1234yf Refrigerant, 2021, Journal of Engg. Research, ICM MM Special Issue DOI:10.36909/jer.ICMMM.15661
(<https://kuwaitjournals.org/jer/index.php/JER/article/view/15661>)
 5. T. Kannan , B.Arulmurugan , L. Feroz ali , L.Rajeshkumar, performance analysis of AA3103 and AA6063 dissimilar weld joints by friction stir welding, Songklanakar Journal of Science and Technology <https://rdo.psu.ac.th/sjstweb/Ar-Press/2021Sep/18.pdf>
 6. K. M. Rakesh, Ramachandracharya Srinidhi, S. Gokulkumar , K. S. Nithin, S. Madhavarao, S. Sathish, Alagar Karthick , M. Muhibbullah , and Sameh M. Osman Experimental Study on the Sound Absorption Properties of Finger Millet Straw, Darbha, and Ripe Bulrush Fibers, Advances in Materials Science and Engineering, 2021, <https://doi.org/10.1155/2021/7382044>
 7. Vennimalai Rajan A., Sridhar S., Senthilkumar C., Radha Krishnan B., Sundaresan R., Review – Investigation of bio-absorbable magnesium AZ91 alloy using powder metallurgy technique, Materials Today: Proceedings, 2021, <https://doi.org/10.1016/j.matpr.2021.12.125>.
(<https://www.sciencedirect.com/science/article/pii/S2214785321078500>)
 8. Anandha Moorthy A, Jegan M.M, Prakash Kanna G, Senthilkumar C, Radha Krishnan Beemaraj, Experimental investigation of Al7075 reinforced with WC and SiC metal matrix composites, Materials Today: Proceedings, 2021, <https://doi.org/10.1016/j.matpr.2021.10.239>.
(<https://www.sciencedirect.com/science/article/pii/S2214785321067468>)
 9. P. Arunkumar, N. Muthukumaran, M. Muthu Samy, L. Prabhu, R. Rajeshwari, Investigation on effect of process parameters in abrasive Jet Machining process using full factorial design, Materials Today: Proceedings, Volume 47, Part 15,2021, Pages 5395-5400, <https://doi.org/10.1016/j.matpr.2021.06.169>.

STUDENTS ACHIEVEMENTS

1. Mr. P Seethu and Mr. Ziyad Latheef of Department of Mechanical Engineering students won the second prize in Energy Ambassador 2021, organized by IAEMP Coimbatore chapter and VIT, Chennai.



2. Mr. Imaya Ganesh S of III Year Mechanical Engineering participated in “India Skills regional level competition Industrial Design Technology Category” conducted from 1st December 2021 to 4th December 2021 held at Andhra University, Visakhapatnam.

3. Mr. Bharathwaj P , Mr. Ziyad Latheef and Mr. Hari Krishna D of III Year Mechanical Engineering won cash prizes in Skill Competitions conducted by Autodesk.



STUDENT PLACEMENT

Placement achievement of the final year students of Department of Mechanical Engineering in various reputed company is shown below.

S.NO	NAME OF THE STUDENT	COMPANY NAME	SALARY
1	MAHESH BOOPATHY.S	BSH	4.5 LPA
2	ROOBAN KUMAR R	BSH	4.5 LPA
3	GANESH SURYA R	TITAN	2 LPA
4	GURUPRASATH J	QSPIDER	3 LPA
5	JAYAPRATHAPAN. R	QSPIDER	3 LPA
6	TAMILARASAN.A	QSPIDER	3 LPA
7	VIJAY M	QSPIDER	3 LPA
8	MANOKARAN S	QSPIDER	3 LPA
9	SABARI SHANKAR .P	QSPIDER	3 LPA
10	SANJAYKUMAR V T	QSPIDER	3 LPA