



lendi Institute of Engineering & Technology

An Autonomous Institution

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Approved by A.I.C.T.E. & Permanently Affiliated to J. N. T. U. Gurajada, VIZIANAGARAM

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DEPARTMENT OF MECHANICAL ENGINEERING


Date: 07-01-2024

SUMMARY OF THE GUEST LECTURES CONDUCTED FOR THE ACADEMIC YEAR 2023-24

S.No	Title	Name of the Resource Person	Designation & Address of the Resource Person	Date	Year of the Students Attended	No. of Students Attended	No. of Hours	PO/PSO MAPPING	Attainment	Impact Analysis
1	EV Power train & HEV Architecture	Mr. G. Sree kumar,	Head of Training, Imperial Society of Innovative Engineers (ISIE), India	28/07/2023	IV Year	122	6	PO1, PO2, PO3, PO5, PO6, PO7, PO12, PSO1, PSO2	0.894	Provided in-depth knowledge on electric vehicle powertrains and hybrid architectures , crucial for sustainable mobility. The session helped students understand energy management strategies, battery technologies, and the impact of EVs on sustainability.
2	Modelling & simulation of battery pack	Mr.Himanshu Ranjan	Senior EV Trainer, Imperial Society of Innovative Engineers (ISIE), India	28/07/2023	III Year	138	6	PO1, PO2, PO3, PO5, PO6, PO7, PO12, PSO1, PSO2	0.868	Crucial for optimizing battery efficiency, thermal management, and safety in EVs. The session helped students gain practical knowledge on battery life enhancement, simulation techniques, and cost-effective EV battery development.

3	Augmented reality & artificial intelligence in mechanical industry	Mr. Rajesh Deverakonda	Senior Trainer Holopundits, Chennai	11/08/2023	III Year	137	6	PO1, PO2, PO3, PO4, PO6, PO7, PO12, PSO1, PSO2	0.871	Focused on transforming mechanical industry processes using AR & AI. Helped students explore digital design, virtual prototyping, predictive maintenance, and automation, improving efficiency, cost savings, and accuracy.
4	Augmented reality & artificial intelligence in mechanical industry	Mr. Rajesh Deverakonda	Senior Trainer Holopundits, Chennai	18/08/2023	IV Year	123	6	PO1, PO2, PO3, PO4, PO6, PO7, PO12, PSO1, PSO2	0.91	Enhanced design visualization, industrial automation, and digital twin applications in mechanical engineering. The session emphasized reducing errors in manufacturing and increasing workplace safety.
5	Augmented reality for experiential learning (hands on workshop)	Mr. Hemanth	Trainer XGuru, Chennai	10/10/2023	IV,III,II Years	120	6	PO1, PO2, PO3, PO4, PO6, PO7, PO12, PSO1, PSO2	0.881	Provided an immersive learning experience using AR. Helped students understand real-time industrial problem-solving, 3D simulations, and interactive learning methods, which are useful in technical education.
6	Real-World Applications of Statistical Quality Control in Production	N. Deepla Naik	Assistant General Manager, Vizag Steel Plant	16/10/2023	III Year	132	6	PO1, PO6, PO7, PO8, PO12, PSO1, PSO2	0.926	Focused on improving product quality, minimizing defects, and optimizing manufacturing efficiency. Helped students understand Six Sigma, SPC techniques, and lean manufacturing, improving quality assurance skills.
7	General considerations in the design of Engineering Materials	K.Girish Vidya Sagar	Proprietor Tanveer Creations Engineering Works	17/10/2023	III Year	135	6	PO1, PO2, PO6, PO7, PO12, PSO1, PSO2	0.961	Provided in-depth knowledge of material selection based on mechanical properties, cost, and sustainability. Key for product development in aerospace, automotive, and structural industries.

8	Finite Element Analysis on Two dimensional elements	SVD Prasad	Manager Synergies castings limited, Vizag	05/12/2023	IV Year	118	6	PO1, PO2, PO3, PO4, PO6, PO12, PSO1, PSO2	0.923	Emphasized simulation-based analysis for mechanical structures . The session helped students understand stress-strain behavior, failure prediction, and virtual testing, reducing prototype costs and enhancing safety..
9	Electronic gasoline fuel injection system	Dr.V.Rama Krishna Scientist-F Additional Director	NSTL-DRDO Visakhapatnam	06/01/2024	IV Year	119	6	PO1, PO2, PO3, PO5, PO6, PO7, PO12, PSO1, PSO2	0.892	Improved understanding of fuel injection technology, emission control, and engine efficiency . Key insights on reducing fuel consumption, optimizing engine performance, and meeting global emission norms .


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