



JAI SHRIRAM ENGINEERING COLLEGE







(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Accredited by NAAC)
Dharapuram Road, Avinashipalayam, Tirupur – 638 660

Department of Mechanical Engineering

Short Term Training Program (STTP) on “Design of Experiments for Engineers and Researchers”

(DEER'2k22)

Program Schedule - (17th – 21st October, 2022)

Day 1 (17/10/2022)			
Resource Persons		Topics	Timings
Inauguration			09:30–10:00 AM
	Dr. V. Jai Ganesh Professor, Dept of Mechanical Engineering, Bharath Institute of Higher Education and Research, Chennai.	Features of DoE an Experimental approach	10:00-11:30 AM
	Dr. N. Senthilkumar, Professor, Dept. of Mechanical Engineering, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai.	Fuzzy Logic Analysis & Neural Network	02:30-04:00 PM
Day 2 (18/10/2022)			
Resource Persons		Topics	Timings
	Dr. R. Parameshwaran Professor, Department of Mechatronics Engineering, Kongu Engineering College, Perundurai.	Taguchi's DOE Orthogonal Arrays	10:00-11:30 AM
	Dr. Prakash Sekar Assistant Professor, Dept. of Mechanical Engineering, Aarupadai Veedu Institute of Technology, Chennai.	Significance of optimization tools for validating research problems	02:30-04:00 PM

Day 3 (19/10/2022)			
Resource Persons		Topics	Timings
	Dr. M.R. Thansekhar Professor, Department of Mechanical Engineering, KLN College of Engineering, Sivagangai.	Regression Analysis	10:00-11:30 AM
	Dr. M. Saravanan Associate Professor, Department of Mechanical Engineering, Annamalai University, Chidambaram.	Optimization of Heat pipe parameters in flat plate solar collector/simulator using RSM	02:00-03:30 PM
Day 4 (20/10/2022)			
Resource Persons		Topics	Timings
	Dr. M. Sivakumar Dean – Freshmen Engineering Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai.	ANOVA, Formation of Regression Equations, 2K Factorial Design, 3 level Factorial Design, Central Composite Design, Box–Behnken design using Minitab	10:00-11:30 AM
	Dr. M. Sivakumar Dean – Freshmen Engineering Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai	Taguchi, Grey Analysis using Excel and Genetic Algorithm using MatLab	11:45-1:00 PM
Day 5 (21/10/2022)			
Resource Persons		Topics	Timings
	Dr. M.K. Marichelvam Associate Professor, Dept. of Mechanical Engineering, Mepco Schlenk Engineering College, Sivakasi.	Particle Swarm Optimization Algorithm for Optimization Problems.	10:00-11:30 AM
	Dr. N. Rajeswari Professor and Head, Dept. of Mechanical Engineering St. Peter's Institute of Higher Education and Research, Chennai.	Heuristic algorithm for solving small- and large-scale engineering optimization problems.	02:00-03:30 PM
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