

PRAGATI ENGINEERING COLLEGE (Autonomous)

DEPARTMENT OF MECHANICAL ENGINEERING PAPERS PUBLISHED FOR THE ACADEMIC YEAR 2024-25

S.No.	Name of the Journal	Title of the paper	Authors	Volume & Issue	Month - Year	Journal Type
1	International Journal of Scientific Research & Engineering Trends	Material Optimization of Bracket For Maximum Stiffness Conditon to Withstand Higher Loading Conditions	Mrs. K. Tulasi	Volume 11, Issue 2	March-April 2025	Others
2	International Journal of Scientific Research & Engineering Trends	Enhancing The Discretization Method by Implementing The DOE Method to Optimize The Discretization Value Using Workbench and Ansys	Mr. M. Vinil	Volume 11, Issue 2	March-April 2025	Others
3	International Journal of Scientific Research & Engineering Trends	Orientation Optimization for Reducing The Support Material Wastage in Material Extrusion Process	Mr. M. Rambabu	Volume 11, Issue 2	March-April 2025	Others
4	International Journal of Scientific Research & Engineering Trends	Optimization of Support Patterns to Reduce Material Wastage Using Doe Method	Mr. K. Simon Rupas	Volume 11, Issue 2	March-April 2025	Others
5	International Journal of Scientific Research & Engineering Trends	Multi Objective Optimization of Print Settings For Nominal Print Time Using Frontier Analyse Method	Mrs. S. Hemani	Volume 11, Issue 2	March-April 2025	Others
6	International Journal of Scientific Research & Engineering Trends	Optimization of Print Speed for FDM Process Using Minitab	Mrs. B. Siva Naga Ramya	Volume 11, Issue 2	March-April 2025	Others
7	International Journal of Science, Engineering and Technology	3d Modelling and Simulation of Industrial Robot Arm Under Static Loading Condition	Mr. M. Anil Kumar	2025, 13:2	Apr-25	UGC Approved
8	International Journal of Science, Engineering and Technology	Design of Hydraulic Power Pack for Vertical Turning Lathe Machine	Mr. P. Chinna	2025, 13:2	Apr-25	UGC Approved
9	International Journal of Science, Engineering and Technology	Energy Recovery from Boiler Blowdown Water at Edible Oil Refine	Mr. K. Anil Kumar	2025, 13:2	Apr-25	UGC Approved
10	International Journal of Science, Engineering and Technology	Design and Static Structural Analysis of Rocket Stand	Mr. Ch. Satya Prakash	2025, 13:2	Apr-25	UGC Approved
11	International Journal of Science, Engineering and Technology	Influence and Optimization of Infill Pattern on Printing Time and Material Consumption Using Stastical Software	Ms. G. B. T. S. Alekhya	2025, 13:2	Apr-25	UGC Approved
12	International Journal of Science, Engineering and Technology	Process Parameter Optimization of FDM Process Using DOE Methods	Mrs. U. Chaitanya Vardhini	2025, 13:2	Apr-25	UGC Approved
13	International Journal of Science, Engineering and Technology	Design and Static Structural Analysis of Sapcecraft Motor Head	Mr. N. Raghuveer	2025, 13:2	Apr-25	UGC Approved
14	International Journal of Science, Engineering and Technology	Design and Optimization of A High Speed Vehicle Using Fluent Tool / CFT	Dr. G. Avinash	2025, 13:2	Apr-25	UGC Approved
15	International Journal of Science, Engineering and Technology	Condition Design and Material Optimization of Axial Gas Turbine Under Static Loading	Mrs. B. Anusha Srikanta	2025, 13:2	Apr-25	UGC Approved
16	International Journal of Science, Engineering and Technology	3d Modelling and Simulation of Spindle Using Static Structural Analysis	Mr. M. V. V. Siva Krishna	2025, 13:2	Apr-25	UGC Approved
17	International Journal of Science, Engineering and Technology	Design of Mechanical Grab for Lifting Plates	Mr. B. Hari Krishna	2025, 13:2	Apr-25	UGC Approved
18	International Journal of Science, Engineering and Technology	Design and Simulation of Steady State Thermal Analysis of Exhaust Engine Valve	Mrs. B. Kranthi	2025, 13:2	Apr-25	UGC Approved
19	International Journal of Scientific Research & Engineering Trends	Design and Fluent Simulation of Draft Tube to Increase Exist Pressure	Mr. Ch. Sai Mohan Reddy	Volume 11, Issue 2	March-April 2025	Others
20	International Journal of Science, Engineering and Technology	Design, Geometrical and Material Optimization of Engine fins for maximum heat transfer	P Gayathri	2025, 13:2	Apr-25	UGC Approved
21	International Journal of Science, Engineering and Technology	Taguchi grey scale optimization of FDM process parameters for reducing printing cost by using DoE software	P Ram Prasad	2025, 13:2	Apr-25	UGC Approved

S.No.	Name of the Journal	Title of the paper	Authors	Volume & Issue	Month - Year	Journal Type
22	International Journal of Science, Engineering and Technology	Design and Simulation of Scaffold design tissue for tissue regeneration	A Phani bhaskar	2025, 13:2	Apr-25	UGC Approved
23	International Journal of Science, Engineering and Technology	Face centred central composite design to optimize the material extrusion process	A Yeswanth	2025, 13:2	Apr-25	UGC Approved
24	International Journal of Science, Engineering and Technology	Optimization and comparison of linear regression model of process parameters using Anova and Taguchi methods	K Sree Ramachandra murthy	2025, 13:2	Apr-25	UGC Approved
25	International Journal of Science, Engineering and Technology	Design and analysis of steering arm for minimum error condition for off road commercial vehicles	B Bharath Kumar	2025, 13:2	Apr-25	UGC Approved
26	International Journal of Scientific Research & Engineering Trends	Design and Dynamic analysis of Formula car	D J Johnson	Volume 11, Issue 2	March-April 2025	Others
27	International Journal of Scientific Research & Engineering Trends	Orientation optimization of material extrusion process using minitab software	M Sunil Raj	Volume 11, Issue 2	March-April 2025	Others
28	International Journal of Scientific Research & Engineering Trends	Generative design optimization for advance manufacturing process	K Aravinda	Volume 11, Issue 2	March-April 2025	Others
29	International Journal of Scientific Research & Engineering Trends	Enhancement of process parameters for Mex process using cura 5.9.0 and minitab software	G V N Santhosh	Volume 11, Issue 2	March-April 2025	Others
30	International Journal of Scientific Research & Engineering Trends	Analysis of fibre reinforced metal matrix composite leaf spring for offroad vehicle	V V N Sarath	Volume 11, Issue 2	March-April 2025	Others
31	International Journal Of Innovative Research In Technology	Numerical Analysis and Characteristics Observation of a Torpedo-Shaped Glider Under Oceanic Conditions	Dr. G Avinash, Mr. G.V.N.Santhosh	Volume 11 Issue 3	Aug'24	UGC Approved
32	Journal of Nonlinear Analysis and Optimization	"High Life Cycle Analysis Of Crank Shaft Under Dynamic Loading Condition Using Structural Stress Analysis with help of MAT Lab commercial Code	Dr. G Avinash, Mr. A. Phani bhaskar	Vol. 15, Issue. 1, No 10	2024	UGC Care
33	International Journal for Research in Applied Science and Engineering Technology (IJRASET)	Structural Analysis & Effect of Impingement Cooling Flow in the Internal Surface on Temperature Distribution of a Vane in Gas Turbine Using Taguchi Technique	Mr. D J Johnson, Mrs. P. Gayatri	Vol 12; Issue IV	Apr'2024	Others
34	International Journal for Research in Applied Science and Engineering Technology (IJRASET)	Experimental investigation on effect of shell thickness and Infill density on Mechanical Properties of polymer 3D Printing Process (MEX)	Mrs. K.Aravinda, Mr. P. Ram Prasad	Vol 12; Issue IV	Apr'2024	Others
35	Journal of Nonlinear Analysis and Optimization	Design And Strength Improvement Of The Hook With Loading Capacity Of 63000Kg In An Open Winch Drum Model By Optimizing The Materials And The Profiles	Mr.M. Sunil Raj, Mr. V.V.N.Sarath	Vol. 15, Issue. 1, No.3	2024	UGC Care

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Conferences attended AY 2024-25

S.NO	Name of Faculty attended the programme	Title of the paper	Venue of the Conference	Name of the conference	Conference held Date
1	P. Gayatri, N. Raghuveer, P. Ram Prasad, A. Phani Bhaskar	Optimization and Structural Analysis of a 4-Motor Drone Frame for Improved Weight Handling and Strength	organized by the Department of Mechanical Engineering, Anil Neerukonda Institute of Technology and Sciences, Visakhapatnam	ICM DES 2025	28-04-2025 To 29-04-2025

PRAGATI ENGINEERING COLLEGE (Autonomous)

DEPARTMENT OF MECHANICAL ENGINEERING

Book Chapters AY 2024-25

S.NO	NAME OF THE FACULTY	TITLE OF BOOK CHAPTER	ISBN NUMBER	PUBLISHER	MONTH-YEAR	TYPE
1	Dr. G. Avinash, Mr. V. V. N. Sarath Mr. A. Yeswanth	Chapter 1 : Aluminum and Its Different Graded Alloys	978-1-394-21254-5	Scrivener Publishing LLC	Jul-24	Book chapter

PRAGATI ENGINEERING COLLEGE				
DEPARTMENT OF MECHANICAL ENGINEERING				
FACULTY ACTIVITIES FOR THE ACADEMIC YEAR 2024-2025				
FDP/WORKSHOPS/TRAINING PROGRAMMES/NPTEL DONE BY THE FACULTY				
S.NO	Name of the Faculty	TITLE	VENUE/Organiser	DURATION
1	Dr.G.Avinash	Data science for Engineers	NPTEL	Jan -march 2025
2	Mr.A.Phani Bhaskar	Data science for Engineers	NPTEL	Jan -march 2025
3	Mr.A.Phani Bhaskar	NPTEL -AICTE FDP on The joy of computing using python	NPTEL	jul-oct 2024
4	Mr.A.Yeswanth	NPTEL -AICTE FDP on The joy of computing using python	NPTEL	jul-oct 2024
5	Dr.G.Avinash	NPTEL -AICTE FDP on The joy of computing using python	NPTEL	jul-oct 2024
6	Mr.B.Bharath kumar	NPTEL -AICTE FDP on Cloud computing	NPTEL	jul-oct 2024
7	Mr.P.Ramprasad	2 day workshop onFused deposition modeling & metal additive manufacturing	Incredible	20.6.2024 to 21.06.2024
8	Mrs Aravinda Karri	2 day workshop onFused deposition modeling & metal additive manufacturing	Incredible	20.6.2024 to 21.06.2024
9	Mr.N.Raghuveer	2 day workshop onFused deposition modeling & metal additive manufacturing	Incredible	20.6.2024 to 21.06.2024
10	Mr.B.Bharath kumar	2 day workshop onFused deposition modeling & metal additive manufacturing	Incredible	20.6.2024 to 21.06.2024
11	Mr.V.V.N.Sarath	2 day workshop onFused deposition modeling & metal additive manufacturing	Incredible	20.6.2024 to 21.06.2024
12	Mr.A.Yeswanth	One week FDP on AI/ML Tools for Advanced materials,manufacturing and thermal systems(ATAMMTS-2024)	Lakireddy Balireddy college of Engineering	24.6.2024 to 28.06.2024
13	Mr.V.V.N.Sarath	Five day National workshop on sustainable manufacturing & Industry 4.0: special emphasis on 3D Printing & microwave material processing(SMI 4.0)	NIT Rourkela	01.07.2024 to 05.07.2024
14	Mr.A.Phani Bhaskar	One week International FDP on AI for sustainable development	VIIT ,Pune	05.08.2024 to 09.08.2024
15	Dr.G.Avinash	cutting edge Research Technologies in signal processing using MT Lab	MLRIT	12.08.2024 to 17.08.2024

16	Mr.V.V.N.Sarath	One Week Faculty Development Program on “Machine Drawing Through Auto CAD”	CVR College of Engineering, Hyderabad	30.9.2024 TO 05.10.2024
17	Mr.A.Phani Bhaskar	National level short term training program 2k24 on java full stack with react JS and AI	Pragati Engineering College	02.12.2024 to 22.12.2024
18	Mrs Aravinda Karri	National level short term training program 2k24 on java full stack with react JS and AI	Pragati Engineering College	02.12.2024 to 22.12.2024
19	Mr.B.Bharath kumar	One week FDP on Salesforce Platform Developer 1	Pragati Engineering College	16.12.2024 to 22.12.2024
20	Mr.A.Yeswanth	One week FDP on Salesforce Platform Developer 1	Pragati Engineering College	16.12.2024 to 22.12.2024
21	Mr.N.Raghuveer	One week FDP on Salesforce Platform Developer 1	Pragati Engineering College	16.12.2024 to 22.12.2024
22	Mr.P.Ramprasad	One week FDP on Salesforce Platform Developer 1	Pragati Engineering College	16.12.2024 to 22.12.2024
23	Mr.Sreerama chandra murthy	One week FDP on Salesforce Platform Developer 1	Pragati Engineering College	16.12.2024 to 22.12.2024
24	Mrs Aravinda Karri	One week FDP on Salesforce Platform Developer 1	Pragati Engineering College	16.12.2024 to 22.12.2024
25	Dr.G.Avinash	one day workshop on "Towards enhanced performance in NIRF Rankings 2025-A Strategic approach"	JNTUK	23.12.2024
26	Mr.B.Bharath kumar	One week FDP on "Mastering AI tools for faculty excellence"	vishwakarma Institute of Engineering and Technology	23.12.2024 to 27.12.2024
27	Mr.V.V.N.Sarath	One week FDP on "Mastering AI tools for faculty excellence"	vishwakarma Institute of Engineering and Technology	23.12.2024 to 27.12.2024
28	Mr.N.Raghuveer	Mastering AI tools for Faculty Excellence	Vishwakarma instiute of Information Technology,Pune	23-12-24 to 27-12-2024
29	Mr.A.Phani Bhaskar	One week FDP on AI for healthcare innovations.Applications and future trends	vishwakarma Institute of Engineering and Technology,pune	10.02.2025 to 14.02.2025
30	Dr.G.Avinash	One week National level Faculty Development program on AI Tools	Pragati Engineering college	17.02.2025 to 21.02.2025

31	Mr.V.V.N.Sarath	One week National level Faculty Development program on AI Tools	Pragati Engineering college	17.02.2025 to 21.02.2025
32	Mrs.K.Tulasi	One week National level Faculty Development program on AI Tools	Pragati Engineering college	17.02.2025 to 21.02.2025
33	Mr.M.Sunil Raj	One week National level Faculty Development program on AI Tools	Pragati Engineering college	17.02.2025 to 21.02.2025
34	Mr.A.Yeswanth	One week National level Faculty Development program on AI Tools	Pragati Engineering college	17.02.2025 to 21.02.2025
35	Mr.A.Phani Bhaskar	One week National level Faculty Development program on AI Tools	Pragati Engineering college	17.02.2025 to 21.02.2025
36	Mr.A.Phani Bhaskar	FDP on "Innovations in Internal combustion engines:emission regulations and sustainable mobility"	Sasi Institute of Engineering and Technology	17.03.2025 to 22.03.2025
37	Mr.B.Bharath kumar	FDP on "Innovations in Internal combustion engines:emission regulations and sustainable mobility"	Sasi Institute of Engineering and Technology	17.03.2025 to 22.03.2025
38	Mr.P.Ramprasad	FDP on "Innovations in Internal combustion engines:emission regulations and sustainable mobility"	Sasi Institute of Engineering and Technology	17.03.2025 to 22.03.2025
39	Mr.V.V.N.Sarath	1st International Faculty Development Program on Advances in New Age Alloys and Composites with the advent of AI/ML and 3D Printing.	Bearys Institute of Technology, Mangalore	07.04.2025 to 09.04.2024
40	Mr.A.Phani Bhaskar	5 day online FDP on Advancements in signal processing using AI	Pragati Engineering college	21.04.2025 to 25.04.2025
41	Mr.A.Phani Bhaskar	Six days Faculty development programme (online) on "Recent advancements in Mechanical Engineering & its applications (RAMEA 2K25)"	Swamandhra college of Engineering and Technology	21.04.2025 to 26.04.2025
42	Mr.VV.N.Sarath	Six days Faculty development programme (online) on "Recent advancements in Mechanical Engineering & its applications (RAMEA 2K25)"	Swamandhra college of Engineering and Technology	21.04.2025 to 26.04.2025



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DEPARTMENT OF MECHANICAL ENGINEERING

S.no	Course Name	AY	Name of the Faculty	Certificate Type
1	The Joy of Computing using python	2024(July -Oct)	Avinash gudimetla	Elite+Silver
2	The Joy of Computing using python	2024(July -Oct)	Akella yeswanth	Elite
3	The Joy of Computing using python	2024(July -Oct)	Anusuri phani bhaskar	Elite
4	cloud computing	2024(July -Oct)	B.Bharath Kumar	Elite+Silver

