

RAMCO INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2016-17
ME6811-PROJECT WORK

Sl.No.	Project title	PO's relevance	PSO's relevance	Outcome
New product development				
1.	Design and development of adiabatic dehumidification system for drying herbal leaves	POs – 1,2,3,4,5,7,9,10,11,12	PSOs – 1,3	Presentation at " Innovation Engineering Technology 2017", Ramco Institute of Technology, Rajapalayam.
2.	Performance Improvement of single basin single slope solar still by enhancing the rate of condensation	POs – 1,2,3,4,5,7,9,10,11,12	PSOs – 1,3	Received Best paper award in 3 rd National Conference on "Recent Advancements in Mechanical Engineering (RAME,17) conducted by Kamaraj College of Engineering and Technology
3.	Design and Development of pneumatic articulated Robot for Palletizing operation	POs – 1,2,3,4,5,8,9,10,11,12	PSOs – 1,2,4	Presentation at National Conference on Innovation Engineering, Science and Technology, Ramco Institute of Technology, Rajapalayam.
4.	Design, Fabrication and experimentation of the portable solar energy powered drying apparatus for Red chillies	POs – 1,2,3,4,5,7,9,10,11,12	PSOs – 1,3,4	Presentation at National Conference on Innovations in Engineering, Science and Technology, Ramco Institute of Technology, Rajapalayam.
Projects in Identified researches				
5.	Investigation of Mechanical properties of Al6063 by equal channel angular extrusion die	POs – 1,2,3,4,5,9,10,11,12	PSOs – 1,2	Presentation at Second National Conference on Innovation in Engineering Science & Technology, Ramco Institute of Technology, Rajapalayam.
6.	Performance enhancement of single slope single basin solar still by improving evaporation rate	POs – 1,2,3,4,5,7,9,10,11,12	PSOs – 1,2	Presentation at National Conference on Innovation Engineering, Science and Technology, Ramco Institute of Technology, Rajapalayam.
7.	Investigation of Manganese Phosphate coating on Bearing steel	POs – 1,2,3,4,5,9,10,11,12	PSOs – 1,2	Presentation at National Conference on Innovations in Engineering science&

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				Technology, Ramco Institute of Technology, Rajapalayam.
8.	Study of microstructure and mechanical properties of Al6063 by Repetitive Corrugation and straightening process	POs – 1,2,3,4,5,9,10,11,12	PSOs – 1,2	Enhancement of microstructural and mechanical properties of Al6063 Sheets, its applications will be widely promoted.
Projects in specific applications				
9.	Design, Fabrication and finite element simulation of GFRP composite structure for Automobile component	POs – 1,2,3,4,5,9,10,11,12	PSOs – 1,2,4	Presentation at National Conference on Innovations in Engineering science & Technology, Ramco Institute of Technology, Rajapalayam.
10.	Reduction of CO emission in spark ignition engine by Steam injection method	POs – 1,2,3,4,5,7,9,10,11,12	PSOs – 1,3	Presentation at National Conference on Innovations in Engineering science & Technology, Ramco Institute of Technology, Rajapalayam.
11.	Model and Analysis of shock tower in scale model vehicles	POs- 1,2,3,4,5,6,8,9,10,11,12	PSOs – 1,2,4	Presentation at National Conference on Innovations in Engineering science & Technology, Ramco Institute of Technology, Rajapalayam.
12.	Design, Fabrication and Experimentation of Mixed mode Solar dryer for Drying Ginger	POs – 1,2,3,4,5,7,9,10,11,12	PSOs – 1,3,4	<ul style="list-style-type: none"> • Presentation at National Conference on Innovations in Engineering science & Technology, Ramco Institute of Technology, Rajapalayam. • Presentation at IIIrd National Conference on Recent Advancements in Mechanical Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

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13.	Investigation of master leaf for light commercial vehicles with conventional steel and aluminium reinforced boron carbide and fly ash.	POs – 1,2,3,4,5,9,10,11,12	PSOs – 1,2	Presentation at National Conference on Innovations in Engineering science & Technology, Ramco Institute of Technology, Rajapalayam.
Review/Experimental studies in emerging mechanical sciences				
14.	Investigation of Mechanical and Tribological properties on Aluminium metal matrix composite	POs – 1,2,3,4,5,9,10,11,12	PSOs – 1,2	Presentation at National Conference on Innovations in Engineering science & Technology, Ramco Institute of Technology, Rajapalayam.
15.	Multi objective optimization of turning of Al7075 using Grey relational analysis	POs – 1,2,3,4,5,9,10,11,12	PSOs – 1,2	Presentation at Fourth National Conference on Research Advances in Mechanical Engineering, P.S.R. Engineering College, Virudhunagar.
16.	Optimal selection of process parameters in CNC face milling of Al7075 T6 using a Taguchi Technique	POs – 1,2,3,4,5,9,10,11,12	PSOs – 1,2	Presentation at “Third National Conference on Recent Advancements in Mechanical Engineering”, Kamaraj College of Engineering & Technology, Virudhunagar
17.	Study on microstructure and mechanical properties of hybrid metal matrix composite by Stir casting	POs – 1,2,3,4,5,9,10,11,12	PSOs – 1,2	Presentation at National Conference on Innovations in Engineering science & Technology, Ramco Institute of Technology, Rajapalayam.
18.	Investigation of GFRP smart structure by using Finite Element Simulation	POs – 1,2,3,4,5,9,10,11,12	PSOs – 1,2,4	Presentation at National Conference on Innovations in Engineering science & Technology, Ramco Institute of Technology, Rajapalayam.
19.	Machining studies of Aluminium in CNC Lathe	POs – 1,2,3,4,5,9,10,11,12	PSOs – 1,2	Presentation at Second National

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	Machine by using Taguchi Method			Conference on Innovation in Engineering Science & Technology, Ramco Institute of Technology, Rajapalayam.
20.	Comparison of heat transfer rate in the Double pipe heat exchange by using shot blasting in the Inner Tube	POs – 1,2,3,4,5,9,10,11,12	PSOs – 1,2	Presentation at National Conference on Innovations in Engineering science & Technology, Ramco Institute of Technology, Rajapalayam.
21.	Experimental Analysis of Nickel Phosphorous Coating	POs – 1,2,3,4,5,9,10,11,12	PSOs – 1,2	" Presentation at National Conference on Innovations in Engineering science& Technology, Ramco Institute of Technology, Rajapalayam.
Solution to Industrial problems based Projects				
22.	Design and Fabrication of 6 cylinder pneumatically operated clamping device for cabin control valve in a VMC	POs -1,2,3,4,5,6,7,9,10,12	PSOs -1,2	<ul style="list-style-type: none"> • SIMTECH Industries, Coimbatore • Presentation at National conference on “Challenges and Opportunities for Mechanical Engineers”, Kongunadu college of Engineering and Technology, Trichy
23.	Assembly line Automation of Cabin control Valve	POs -1,2,3,4,5,6,7,9,10,12	PSOs-1,2	<ul style="list-style-type: none"> • SIMTECH Industries, Coimbatore • Presentation at National Conference on Innovations in Engineering science& Technology, Ramco Institute of Technology, Rajapalayam.