

List of projects for final year students for academic year 2017-18

Dear Students,

Following is the list of projects available for final year mechanical engineering students for academic year 2017-18. You are requested form the group and submit the projects form after taking the signature of the proposed project guide latest **by 2.00 pm on 15/03/2017 in Mech. Engg. Dept. office.**

It is possible that two different groups are interested in same project. The issue can be resolved by talking to the Guide. Also, keep yourself ready with two more choices in-case you don't get your first choice. Let me know if you have any queries.

Sr. No.	Title of the project	No. of students	Project Guide
1.	PV cell cooling using nano fluid	4	Dr. N.P.Gulhane
2.	Design and Analysis of PVD system using DSMC for Binary Mixture of Gases	4	Dr. M.V.Tendolkar
3.	CFD Simulation of 2- Stage Strling type Pulse Tube Cryocooler using Inline / Inline –U Configuration.	4	Dr. M.V.Tendolkar
4.	Experimental Investigations on Heat Transfer Coefficient Enhancement using Twisted Tape Inserts for flow inside a Closed Conduit.	4	Dr. M.V.Tendolkar
5.	Heat treatment of metals and its characteristics	4	Dr. W.S.Rathod
6.	Wear study of ferrous, non-ferrous and non-metals	4	Dr. W.S.Rathod
7.	Welding of ferrous and non-ferrous and its characteristics	4	Dr. W.S.Rathod
8.	Design of Automobile braking system	02	Dr. H.P.Khairnar
9.	Tribological investigation of Automobile braking system	02	Dr. H.P.Khairnar
10.	Internet of things application in Automobile braking system	02	Dr. H.P.Khairnar
11.	Manufacture and characterization of polymeric nanocomposites	03	Dr. V.B.Suryawanshi
12.	Finite element modeling of composite materials	03	Dr. V.B.Suryawanshi
13.	Design and development of filament winding setup for composite manufacturing.	03	Dr. V.B.Suryawanshi
14.	Fatigue Testing of materials	04	Dr. S.S.Naik
15.	Design and analysis of wheel with spokes	03	Dr.S.S.Naik
16.	Numerical and Experimental Investigation of Flow Over Multiple Cylinders	3-4	Dr. A.V.Deshpande
17.	Numerical Investigation of Combustion	3-4	Dr. A.V.Deshpande

18.	Experimental Investigation of water hammer phenomenon	3-4	Dr. A.V.Deshpande
19.	Micro-manufacturing: Machining of micro features on a tools to reduce the friction of chips with the face of tools (In-house micro EDM facility would be used for this project)	03	Dr. S.A.Mastud
20.	Modeling of a particle flows during high aspect micro EDM process: Small metallic particles are produced during micro EDM machining. It is required to understand the flow of metallic particles with a dielectric flow for process optimization (In-house micro EDM facility would be used for this project)	03	Dr. S.A.Mastud
21.	Incremental Micro Forming : This work would be combination of designing a micro forming system further conducting a simulations to understand the forces during micro forming (In-house micro EDM facility would be used for this project)	03	Dr. S.A.Mastud
22.	Stability of a Centrifugal Compressor (CFD Analysis)	2-3	Prof. S.M.Gunadal
23.	Analogy and deviation in the performance of a typical Centrifugal machines: PUMP and COMPRESSOR [Analysis (EXPERIMENTAL/CFD) may be with regards Cavitation and Stall/Surge and Choke Performance]	2-3	Prof. S.M.Gunadal
24.	Design and Development of robotic arm	3	Dr. A.S.Rao
25.	Development of Rapid Prototyping machine	3	Dr. A.S.Rao
26.	Application of Renewable Energy	3	Dr. Sanjay M.G.
27	Solar Energy	3	Dr. Sanjay M.G.