

Course Code	ME 420	
Course Title	Mechanical Engineering Individual Research Project	
No. of Credits	6	
Pre-requisites	ME 326	
Compulsory/Optional	Compulsory for Mechanical Engineering stream	
Aim(s): To provide the students with the opportunity to appreciate the interplay between theory, simulation, design and experimentation in the process of deriving a solution to an open-ended engineering problem so that they will be able to effectively solve a real world complex Engineering problem.		
Intended Learning Outcomes: On successful completion of the course, the students should be able to;		
<ul style="list-style-type: none"> • identify, formulate and synthesize an engineering research or design problem, • collect and apply new knowledge, • formulate, execute and manage a project plan, • be creative and innovative in solving an engineering problem, • communicate professionally and be able to market the solution. 		
Time Allocation (Notional Hours) : Assignments 300		
Course content / Course description :		
<ul style="list-style-type: none"> • Problem formulation and project planning • Acquisition of new knowledge relevant to the project • Use of design and experiments and analysis of data verify ideas/hypothesis • Implementation of project plan • Presentation of project progress and outcomes 		
Recommended Texts (if any) :		
	Assessment	Percentage Mark
In-course		
Progress Evaluations: Oral and written presentations		50
Final Evaluation : Oral and written presentations		50