

Courses Having Focus on Employability/ Entrepreneurship/ Skill Development (Annexure – F)
Department of Mechanical Engineering, SVU College of Engineering, Tirupati

S. No.	Name of the Course	Course Code	Name of the Programme	Activities/ Content with direct bearing on Employability/ Entrepreneurship/ Skill Development	Link to the relevant document	Dept.
1	Industrial Safety	PGOP 12	M.Tech (IE & PE)	Skill Development: Student will understand the Workplace Hazards in the industry, Hierarchy of Controls, Training Records to Meet Compliance and Preventing Fall From Height Risks	---	Mech. Engg.
2	Expert Systems in Manufacturing	PEPE52	M.Tech (PE)	Skill Development: Students acquire knowledge on Expert systems in manufacturing field.	---	
3	Metrology and Computer Aided Inspection	PEPE23	M.Tech (PE)	Employability: It deals with measuring lengths and angles. All engineering measurements like bore, thickness, etc., have to be measured in micron level and as such this course deals with various comparators, interferometers, gears, thread measurements and CMM.	---	
4	Additive Manufacturing	PEPE33	M.Tech (PE)	Employability: Students will learn different additive manufacturing technologies and able to produce extremely complex shapes, personalized products, re-shore production, consolidate components, reduce weight through material minimization and eliminate tooling and stock holding	---	
5	Human Resource Management	IEPE13	M.Tech (IE)	Employability: Human Resources is one of the important resources of organization on which effectiveness depends. So this course will train the students on how to manage the Human Resources very effectively in the organizations.	---	
6	Automobile Engineering	MET19	B.Tech (Mech)	Employability: Understand the environmental implications of automobile emissions and develop a strong base for understanding future developments in the automobile industry.	---	
7	Industrial Engineering and Management	MEPET02	B.Tech (Mech)	Employability: Student exposed to industrial operations and how to manage all operations.	---	
8	Heat Transfer	MEPCT501	B.Tech (Mech)	Skill Development: It deals with conduction, convection and radiation in solids and fluids. Insulation, flow in the heat exchanger,	---	


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				collection of radiation by black bodies is studied in depth up to 2-Dimensional.		
9	CAD/CAM	MET23	B.Tech (Mech)	Employability: Introduction and important features of software dealing with modeling, design, simulation, assembly and analysis of mechanical components.	---	
10	Finite Element Method	MET21	B.Tech (Mech)	Employability: It is used for solving engineering problems of engineering structures, heat transfer and fluid flow and their results are very close to real life situations.	---	
11	Power Plant Engineering	MEOE2	B.Tech (Mech)	Employability: It deals with various components and their features both coal based and gas based and their efficiencies and drawbacks. At present 80% power generation is based on these types.	---	
12	Industrial Safety and Measures	MEPCT303	B.Tech (Mech)	Skill Development: Skill Development: Student will understand the Workplace Hazards in the industry, Hierarchy of Controls, Training Records to Meet Compliance and Preventing Fall From Height Risks	---	
13	Thermodynamics	MEPCT301	B.Tech (Mech)	Employability: It deals with the relation between heat and other forms of energy such as mechanical, electrical and chemical.	---	

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