



**SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**COURSE OUTCOMES**

Academic year-2018-2019

Year/sem- II-II

<b>CO Number</b>	<b>Course Outcome(CO) Statement- At the end of the Course, the students will be able to</b>	<b>Blooms Taxonomy</b>
<b>Kinematics of Machinery (C221)</b>		
C221.1	Discuss the basic knowledge of mechanisms	Understand
C221.2	Explain about popular mechanisms having lower pair only	Understand
C221.3	Solve the velocity and acceleration of any part of the mechanism	Apply
C221.4	Design a cam profile for an application	Create
C221.5	Demonstrate the gear nomenclature and interference	Apply
C221.6	Design a belt and gear drive for an application	Create
<b>Thermal Engineering-I (C222)</b>		
C222.1	Recognize the reasons and affects of various losses that occur in the actual engine operation.	Understand
C222.2	Explain the various engine systems along with their function and necessity.	Understand
C222.3	Interpret the combustion phenomenon in S.I. and C.I. engines.	Apply
C222.4	Differentiate the performance evaluation of testing on S.I and C.I Engines	Analyze
C222.5	Distinguish the performance and efficiency of reciprocating compressors.	Analyze
C222.6	Differentiate the performance and efficiency of rotary compressors.	Analyze
<b>Production Technology (C223)</b>		
C223.1	Explain and apply the principles of casting and design the gating system	Apply
C223.2	Analyze casting design considerations	Analyze
C223.3	Explain the various principles of Arc welding and Gas welding	Understand
C223.4	Compare various welding processes and analyze welded portions	Analyze
C223.5	Demonstrate the principles of various forming operations and powder metallurgy	Understand
C223.6	Describe the principles of various Sheet metal forming, High energy rate forming processes and Processing of Plastics	Understand
<b>Design of Machine Members-I (C224)</b>		
C224.1	Use suitable materials, tolerances and fits in critical design	Apply

	applications.	
C224.2	Interpret stresses and utilize design data hand book and design the elements for strength, stiffness and fatigue	Understand
C224.3	Use the design procedure to engineering problems, including the consideration of technical and manufacturing constraints for Riveted and welded joints	Apply
C224.4	Design Cotter joints, Knuckle joints, Keys and Shafts.	Analyze
C224.5	Examine the design procedure for shaft couplings.	Analyze
C224.6	Examine the design procedure for Springs.	Analyze
<b>Machine Drawing (C225)</b>		
C225.1	Explain and apply the procedure to draw Screw threads, bolts, nuts, stud bolts, tap bolts, set screws.	Apply
C225.2	Explain and apply the procedure to draw Keys, cotter joints and knuckle joint	Apply
C225.3	Explain and apply the procedure to draw Riveted joints for plates	Apply
C225.4	Explain and apply the procedure to draw Shaft coupling, spigot and socket pipe joint	Apply
C225.5	Explain and apply the procedure to draw Journal, pivot and collar and foot step bearings.	Apply
C225.6	Explain and apply the procedure to draw detailed assembly drawings of Plummer block, Tailstock, Welded joints, tool head of shaper	Apply
<b>Industrial Engineering Management (C226)</b>		
C226.1	Describe the role of industrial engineer and list the function of management	Understand
C226.2	Illustrate the Design of Plant Layout and study of quantitative techniques for optimal design of Plant Layout	Apply
C226.3	Distinguish between time study and Method study	Analyze
C226.4	Interpret control charts for assessment of process quality	Apply
C226.5	List out the functions of Human Resource Management, Personnel and industrial management	Remember
C226.6	Classify the principles of Pert and CPM techniques and understand the concept of value analysis.	Apply

Faculty co-ordinator

HOD