Subject	COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
4ME1A: Kinematics of Machines	To apply the concept of mechanism in different type of machine elements.	H	H	H	M	H	M	H	L	M	H	H	H
	Interpret motion and modify different mechanism.	H	H	H	H	H	L	H	L	H	H	H	H
	Apply the concepts of power transmission through belt, rope and chain etc.	M	H	H	H	H	L	M	L	M	H	H	H
	be able to design cam for a given input/out put motion.	H	H	H	M	H	L	H	L	H		H	H
4ME2A: Fluid Mechanics & Machines	To apply fundamental concepts of Fluid Mechanics.	H	H		M	H	M	H	M			H	H
	To apply Fluid flow concepts, Basic control volume and differential equations.	H	H		L	H	H	H	M			H	H
	To understand and apply Viscous, Turbulent flow concepts, flow measurement and Flow through pipe in practical fluid mechanics applications.	H	H		M	M	H	H	M			L	H
	To understand and operate Hydraulic Turbines and Hydraulic systems.	H	M		L	L	M	H	M			L	M
4ME3A: Machining & Machine Tools	Provide the basic concepts in mechanics of metal cutting, chip formation, various tool materials and tool life.	M	L	M	L	M	M	L	_	M	M	L	M
	Impart the concept of types of lathe, various operations that can be performed in various lathes, various mechanisms adopted.	M	L	M	L	M	L	L	_	M	M	M	M
	Instruct the working principle, operations performed, work, tool holding devices and different attachments in milling and drilling machines.	M	M	M	L	H	M	M	_	L	L	L	M
	Acquaint with the fundamentals of finishing process, super finishing process and their associated machine tools.	M	M	M	L	H	L	L	_	M	L	M	M
4ME4A: Design of Machine Elements - I	Student will be able to select the proper Engineering materials as per design requirement and understand the importance of standardization of machine components and providing allowances while designing a component	H	M	H	H	M	M	M	M	M	H	H	M
	Student will be able to analyze different loading conditions and design machine components under static and dynamic loads.	H	H	H	M	M	M	M	L	M	M	M	M

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	Student will be able to apply the concepts of stress analysis,theory of failure and material science to analyze,design and select commonly used machine components	H	H	H	M	M	M	M	L	M	M	M	M
	Student will be able to illustrate the variety of Mechanical components available and emphasize the need to continue learing	H	M	M	M	H	M	M	M	M	M	M	H
4ME5A: Industrial Engineering	To illustrate the importance of Industrial Engineer in any industry and implement the different concepts involved in work study and method study.	H	H	H	H	H	H	H	H	H	H	H	H
	To implement work measurement techniques in any industry and justify the importance of management and decision making in present global scenario.	H	H	H	H	H	M	M	M	H	M	H	H
	To identify different business forms and organization with their relevance in today's competitive environment and demonstrate break even analysis for decision making.	H	H	H	H	M	M	M		M	M	H	H
	To implement the concepts of various cost accounting and financial management practices widely applied in industries.	H	H	H	H	M	M	M			L	H	H
4ME6A: I.C. Engines	To recognize the reasons of difference among operating characteristic of different engine types and design.	H	M	H	M		H	H	H	M		H	H
	To understand the combustion of spark ignition & Compression ignition Engine.	H	M	H	M	H	M	H	M		L	M	M
	To identify the basic parts of an IC Engine and ignition systems.	H	M	H	M	M	M	L		M	L	M	M
	To analyze the engine friction and lubrication parameters and supercharging.	H	H	L		M	M	H	H	H	M	M	H
	To apply the principles of dual, multi fuel and special engines.	H	H	H	H	H		M		H	H	H	M
4ME7A: Kinematics of Machine Lab	To classify different types of links and mechanisms used for different purposes in different machines.	H	H	H	H	H	L	M	L	L	L	H	L
	To apply the concepts of power transmission by the application of friction.	H	M	H	M	M	L	L	L	L	L	L	M

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4ME8A: Fluid Mechanics Lab	To apply Basic fluid mechanics principle in practical application.	H	H	M	M	L		M		M		L	H
	To study flow characteristics, measure flow rates and related parameters.	H	H	M	M	L		M		M		L	H
4ME9A: Production Practice-II	To know about various machining processes and effect of machining parameters on quality of workpiece.	H	H	H	H	H	M	M	H	H	L	H	M
	To communicate efficiently with industry personnel by developing a manufacturing-centric knowledge.	H	H	M	H	H	M	M	H	L	H	H	M
4ME10A: Machine Design Sessional - I	To classify differeent Engineering materials and understand BIS nomenclature	H	M	M	H	M	M	M	L	M	M	M	M
	To design various machine components such as cotter and knuckle joint,shafts,shaft coupling,levers,beams,brackets,screw jack etc under various loading and stress conditons.	H	H	H	H	H	M	M	L	H	M	M	M
4ME11A: Thermal Engineering Lab-I	To explore the working of major systems used in conventional and modern engines and identify sources of harmful engine emissions to develop pollution abatement techniques.	H	H	M	H	H		H	H	M	H	H	
	To explore concepts of thermal engineering systems and analyze thermal systems and their components for optimal performance.	H	H		M	H	M	M		M	M	M	H