Department of Mechanical Engineering

NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

	COURSE OUTL	INE TEMPLATE		
Course Title	Basics of Mechanical Engineering			
Course Code	MEIR 11	No. of Credits	02	÷
Department	Civil Engineering	Faculty	Dr.K.Sankara	narayanasamy
Pre-requisites Course Code			L	
Course Coordinator(s) (if, applicable)				
Other Course Teacher(s)/Tutor(s), E-mail	ksnsamy@nitt.edu	Telephone No.	9486001114	
Course Type	☑ Core course			
This integrated course involves the basic understanding of fundamental for mechanical engineering concept of Thermal engineering, Engineering materials and Manufacturing of basic engineering components. The course famililiarises the students with analysis the problems by applying the fundamentals of mechanical engineering and proceed for the development of the mechanical systems.				
COURSE OBJECTIVE				
 To explain the importance of concepts of mechanical engineering and conservation equations. To introduce the techniques for analyzing the forces, momentum and power. To introduce the various properties of materials, and the techniques of selection of materials. identify the basic elements of mechanical system and write their constitutive equations and performance analysis techniques. 				
COURSE OUTCOMES (CO)				
Upon the completion of the course, the students will be able to				Aligned Programme Outcomes (PO)
Aware of thermodynamics laws and its applications in IC engines and air 1,3,4 compressors				