

INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI
PROFORMA FOR NEW COURSE

1.	Title of the Course	Engineering Drawing
2.	Course Number	EA1101
3.	Status of the Course	Core
4.	Structure of Credits	1-0-3-3
5.	Offered To	UG
6.	New Course/Modification to	New
7.	To be Offered by	Department of Mechanical Engineering
8.	To take effect from	July 2018
9.	Prerequisite	Nil
10.	Whether approved by the Department	Yes
11.	Course Objective: At the end of the course, the student shall be able to 1. Draw engineering curves, orthographic projections of lines, planes and solids. 2. Draw sections of solids including cylinders, cones, prisms and pyramids. 3. Make development of surfaces, draw intersections of surfaces. 4. Draw Engineering Curves, Orthographic and Isometric projections using AutoCAD.	
12.	Course Content: Introduction to engineering drawing, lettering, dimensioning, line types, geometrical constructions, Engineering Curves – Part I (Conic sections), Projections of points, lines and traces, Projections of planes, Projections of solids, Sections of solids, Development of surfaces, Intersection of surfaces; Introduction to CAD, Engineering Curves – Part II, Orthographic projections, Isometric projections.	
13.	Text book(s): 1. Narayana K.L, Kanniah P, <i>Engineering Drawing</i> , Scitech publications, (2017).	
14.	Reference(s): 1. Venugopal K., <i>Engineering Drawing</i> , New Age International, (2004). 2. Bhatt N.D., <i>Engineering Drawing</i> , Charotar Publishing House, (2000).	