



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

MECHANICAL ENGINEERING

ASSIGNMENT

Course Name	:	MACHINE TOOLS
Course Code	:	A70328
Class	:	III B.Tech I Semester
Branch	:	Mechanical Engineering
Year	:	2017 – 2018
Course Coordinator	:	Mr. C. Labesh Kumar, Assistant Professor
Course Faculty	:	Mr. C. Labesh Kumar, Assistant Professor, Mr. M. Prashanth Reddy, Assistant Professor

OBJECTIVES:

Machine Tool Technology is an instructional program that prepares individuals to shape metal parts on machines such as lathes, grinders, drill presses, milling machines and shapers. This program includes instruction in safety, making computations related to work dimensions testing feeds and speeds of machines using precision measuring instruments.

S. No	Question	Blooms Taxonomy Level	Course Outcome
ASSIGNMENT-I			
1	Draw merchant force diagram and resolve the forces related to it	knowledge	2
2	Explain the geometry of single point tool and angles related to it.	knowledge	2
3	Explain the working principle of lathe	comprehension	5
4	Discuss about lathe. Write a brief note about types of lathe	analysis	5
5	Explain the working principle of shaping and types of shaper	comprehension	6
ASSIGNMENT – II			
1	Write about the different types of drills used explain the function of each of the drill type	comprehension	9
2	Explain about the work holding device of boring and drilling machine	comprehension	11
3	Give a brief classification of milling machines and explain the principle of milling machine.	analysis	10
4	Give advantages and limitations of honing and lapping	comprehension	11
5	Briefly describe about tool and cutter grinding machine	comprehension	12

Prepared By: Mr. C. Labesh Kumar, Assistant Professor

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