

DRONACHARYA

College of Engineering

KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Department: Mechanical Engineering

Academic Session: 2017-18 (Jan-June 2018)

Lesson Plan for the Semester started w.e.f 08.01.2018

Subject with code: Manufacturing Technology-I (ME-202-F)

Name of Faculty with designation : Mr. Manish Kumar Mishra-- Assistant Professor

S.No.	Month	Date & Day	Sem-Class	Section/Unit	Topic/Chapter covered	Academic activity	Test / assignment
1	JANUARY	11/01/2018 Thursday	IV-ME	A	Need of the Manufacturing Technology, Subject and Teaching methodology of Dronacharya college of Engineering.Syllabus contents of the subject were given to the Students.	.....	Assignment of 02 Ques. given
2	JANUARY	12/01/2018 Friday	IV-ME	A	Introduction, basic tool geometry, single point tool nomenclature, chips types and their characteristics.	.....	Assignment of 02 Ques. given
3	JANUARY	18/01/2018 Thursday	IV-ME	A	Metal cutting theories, relationship of velocity, forces, and power consumption, cutting speed, feed and depth of cut, coolant, temperature profile in cutting.	.....	Assignment of 02 Ques. given
4	JANUARY	19/01/2018 Friday	IV-ME	A	Tool life relationship, tailor equation of tool life, tool material and mechanism Economics of Metal Machining.	.....	Assignment of 02 Ques. given
5	JANUARY	25/01/2018 Thursday	IV-ME	A	Introduction, elements of machining cost, tooling economics, machining, economics and optimization. Geometry of twist, drills and power calculation in drills.	.....	Assignment of 02 Ques. given
6	FEBRUARY	01/02/2018 Thursday	IV-ME	B	Introduction, Metal blow condition, theories of plasticity, conditions of plane strains, friction, conditions in metal working.	.....	Assignment of 02 Ques. given
7	FEBRUARY	02/02/2018 Friday	IV-ME	B	Wire drawing, theory of forging, rolling theory, no slip angle, and foreword slip. Types of tools, principles of locations, locating and clamping devices, jigs bushes, drilling jigs, milling fixtures.	.....	Assignment of 02 Ques. given
8	FEBRUARY	08/02/2018 Thursday	IV-ME	B	Turning fixtures, boring and broaching fixtures, welding fixtures, different materials, for jigs and fixtures, economics of jigs and fixtures	.....	Assignment of 02 Ques. given
9	FEBRUARY	09/02/2018 Friday	IV-ME	B	Measurement, linear and angular simple measuring instruments, various clampers, screw gauge, sine bar, auto-collimator, comparator-mechanical, electrical, optical	.....	Assignment of 02 Ques. given
10	FEBRUARY	22/02/2018 Thursday	IV-ME	B	Surface finish and its measurements, micro and macro deviation, factors influencing surface finish and evaluation of surface finish	Assignment of 02 Ques. given

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11	FEBRUARY	23/02/2018 Friday	IV-ME	C	Introduction, constructional features, specialization, operations and devices of basic machine tools such as lathe, shaper, planner, drilling machining, and milling machine	Assignment of 02 Ques. given
12	MARCH	08/03/2018 Thursday	IV-ME	C	Indexing in milling operation, working principles of capstan and turret lathes.	.....	Assignment of 02 Ques. given
13	MARCH	09/03/2018 Friday	IV-ME	C	Introduction, Foundry: Introduction to Casting Processes, Basic Steps in Casting Processes	.....	Assignment of 02 Ques. given
14	MARCH	15/03/2018 Thursday	IV-ME	C	Pattern: Types of Pattern and Allowances. Sand Casting: Sand Properties, Constituents and Preparation. Mould & Core making with assembly and its Types.	.....	Assignment of 02 Ques. given
15	MARCH	16/03/2018 Friday	IV-ME	C	Gating System. Melting of Metal, Furnaces and Cupola, Metal Pouring, Fettling. Casting Treatment, Inspection and Quality Control, Sand Casting Defects & Remedies	.....	Assignment of 02 Ques. given
16	APRIL	05/04/2018 Thursday	IV-ME	D	Introduction to Welding, Classification of Welding Processes, Gas Welding: Oxy-Acetylene Welding, Resistance Welding; Spot and Seam Welding, Arc Welding: Metal Arc, TIG & MIG Welding, Submerged arc welding (SAW)	.....	Assignment of 02 Ques. given
17	APRIL	06/04/2018 Friday	IV-ME	D	Resistance welding principles, electrode types and selection, thermit welding, electro slag welding, electron beam welding, laser beam welding, forge welding, friction welding, Welding Defects and remedies, brazing & soldering	.....	Assignment of 02 Ques. given
18	APRIL	12/04/2018 Thursday	IV-ME	D	Basic Principle of Hot & Cold Working, Hot & Cold Working Processes, Rolling, Extrusion, Forging, Drawing, Wire Drawing and Spinning	.....	Assignment of 02 Ques. given
19	APRIL	13/04/2018 Friday	IV-ME	D	Sheet Metal Operations: Measuring, Layout marking, Shearing, Punching, Blanking, Piercing, Forming, Bending and Joining	.....	Assignment of 02 Ques. given