

LESSON PLAN

Name of Faculty: Satvinder Singh/Pardeep Kumar/Sandeep Kumar/
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Discipline: Mechanical Engineering

semester: 3rd

Subject: Mechanical Engineering Drawing

Work load (lecture/practical) per week: (06 Practical)

WEEK	PRACTICALS	
	LECTURE	TOPIC
1 st	1	Limit, fits and tolerance, Need of limit, fits and tolerance, Maximum limit of size, minimum limit of size, tolerance, allowance, deviation, upper deviation, lower deviation, fundamental deviation, clearance, maximum clearance, minimum clearance
	2	. Fits – clearance fit, interference fit and transition fit. Hole basis system, shaft basis system, tolerance grades, calculating values of clearance, interference
	3	hole tolerance, shaft tolerance with given basic size for common assemblies like H7/g6, H7/m6, H8/p6. Basic terminology and symbols of geometrical dimensioning and tolerances.
2 nd	4	Oldham coupling (Assembly Drawing)
	5	Universal coupling (Assembly Drawing)
	6	Bearings, Bushed Bearing (Assembly Drawing)
3 rd	7	Bearing Foot step Bearing (Assembly Drawing)
	8	Plummer Block (Assembly Drawing)
	9	Ball Bearing and Roller
4 th	10	Sketching practice of bearings and bracket
	11	Pulleys, Function of pulley, Types and materials of Pulley.
	12	Free hand Sketch of Various types of pulleys.
5 th	13	Fast and loose pulley (Assembly Drawing)
	14	SESSIONAL TEST -I.
	15	Pipe Joints, Types of pipe Joints, Symbol and line layout of pipe lines
6 th	16	Flanged pipe joint
	17	Expansion pipe joint (Assembly drawing)
	18	Right angled bend joint (AssemblyDrawing)

7 th	19	Drilling Jig (Assembly Drawing)
	20	Drilling Jig (Assembly Drawing)
	21	Lathe Tool Holder (Assembly Drawing)
8 th	22	Lathe Tool Holder Continue
	23	Machine vices (Assembly Drawing)
	24	Machine vices (Assembly Drawing)
9 th	25	SESSIONAL TEST –II
	26	I.C. Engine Parts, Draw Piston
	27	Connecting rod (Assembly Drawing)
10 th	28	Connecting rod (Assembly Drawing)
	29	Crankshaft and flywheel (Assembly Drawing)
	30	Crankshaft and flywheel (Assembly Drawing)
11 th	31	Boiler Parts, Steam Stop Valve (Assembly Drawing)
	32	Steam Stop Valve (Assembly Drawing)
	33	Blow off cock. (Assembly Drawing)
12 th	34	Blow off cock. (Assembly Drawing)
	35	Mechanical Screw Jack (Assembled Drawing)
	36	Mechanical Screw Jack (Assembled Drawing)
13 th	37	Gears, Types of gears, Nomenclature of gears and conventional representation
	38	Draw the actual profile of involute teeth of spur gear by different methods
	39	Draw the actual profile of involute teeth of spur gear by different methods
14 th	40	Revision
	41	SESSIONAL TEST –III
	42	Revision