

Lesson Plan

Name of the Faculty : VIPIN KUMAR
Discipline : Mechanical Engg.
Semester : 5th
Subject : I.E.

Week	Theory	
	Lecture Day	Topic (including assignments /tests)
1 st Week	1 st	Unit 1: Productivity; Introduction to productivity, factors affecting productivity
	2 nd	Measurement of productivity, causes of low productivity and methods to improve productivity
	3 rd	Assignment
Week 2	1 st	Unit 2: Work Study; Definition and scope of work study
	2 nd	Inter-relation between method study and work measurement

	3 rd	Human aspects of work study;
Week 3	1 st	Role of work study in improving productivity
	2 nd	Unit 3: Method Study; Objectives and procedure for Method analysis
	3 rd	Information collection and recording techniques.
Week 4	1 st	Assignment
	2 nd	Revision & Test
	3 rd	Unit 4: Motion Analysis; Principles of Motion analysis
Week 5	1 st	Therbligs and SIMO charts
	2 nd	Normal work area and design of work places
	3 rd	Ergonomics
Week 6	1 st	Unit 5: Work Measurement; Objectives; work measurement techniques, stop watch time study
	2 nd	principle,equipment used and procedure; systems of performance rating;
	3 rd	calculation of basic times, various allowances
Week 7	1 st	calculation of standard time
	2 nd	work sampling, standard data and its usage.
	3 rd	Assignment
Week 8	1 st	Unit 6: Wages & Incentive Schemes; Introduction to wages,
	2 nd	Wage payment for direct and indirect labour, wage payment plans and incentives
	3 rd	various incentive plans, incentives for indirect labour.
Week 9	1 st	Revision & Test
	2 nd	Unit 7: Production Planning & Control; Introduction, objectives and components (functions) of P.P.C
	3 rd	Advantages of production planning and Production Control

Week 10	1 st	stages of P.P.C, process planning
	2 nd	routing, scheduling, dispatching and follow up
	3 rd	routing purpose, route sheets
Week 11	1 st	scheduling – purpose, machine loading chart, Gantt chart,
	2 nd	dispatching –purpose, and procedure
	3 rd	follow up – purpose and procedure
Week 12	1 st	CPM/PERT technique
	2 nd	drawing of simple networks and critical time calculation
	3 rd	Production Control in job order
Week 13	1 st	batch type and continuous type of productions.Difference between these controls.
	2 nd	Unit 8: Estimating & Costing; Introduction
	3 rd	purpose/functions of estimating, costing concept
Week 14	1 st	ladder and elements of cost
	2 nd	difference between estimation and costing
	3 rd	Overheads and their types
Week 15	1 st	estimation of material cost
	2 nd	estimation of cost for machining processes
	3 rd	numerical problems.