

LESSON PLAN

Name of the Faculty : Arvind Bhart

Discipline Mechanical engineering

Semester 6th

Subject industrial engineering

Lesson Plan duration : 15 weeks (from January , 2018 to April , 2018)

Work load (Lecture/ Practical) per week (in hours) : Lecture -04 practical-00

WEEK	THEORY		PRACTICAL
	Lecture day	Topic (including assignment and test)	Practical Day
1	1	Introduction to productivity	
	2	factors affecting productivity	
	3	factors affecting productivity	
	4	Measurement of productivity	
2	5	causes of low productivity	
	6	methods to improve productivity	
	7	definition and scope of work study	
	8		
3	9	Inter-relation between method study and	
	10	work measurement	
	11	Human aspects of work study	
	12		
4	13	Role of work study in improving productivity	
	14	Method Study	
	15	Objectives and procedure for Method analysis	
	16	Information collection.	
5	17	recording techniques	
	18	Principles of Motion analysis	
	19	Therbligs	
	20	SIMO charts	
6	21	Normal work area	
	22	design of work places	
	23	ergonomics	
	24	Work Measurement objectives	
7	25	work measurement techniques	
	26	stop watch time study	
	27	principle equipment used and procedure	
	28	systems of performance rating	
8	29	calculation of basic times	
	30	various allowances; calculation of standard time,	
	31	work sampling,	
	32	standard data and its usage	
	33	Introduction to wages	
	34	Wage payment for direct and indirect labour,	

9	35	wage payment plans and incentives	
	36	various incentive plans, incentives for indirect labour	
10	37	Introduction, objectives and components (functions) of P.P.C	
	38	Advantages of production planning and Production Control	
	39	stages of P.P.C, process planning,	
	40	routing, scheduling, dispatching and follow up	
11	41	routing purpose, route sheets	
	42	scheduling – purpose, machine loading chart, Gantt chart, dispatching –	
	43	purpose, and procedure, follow up – purpose and procedure	
	44	CPM/PERT technique,	
12	45	drawing of simple networks and critical time calculation	
	46	Production Control in job order, batch type and continuous type of productions.	
	47	Difference between these controls	
	48	Introduction, purpose/functions of estimating, costing concept	
13	49	ladder and elements of cost,	
	50	difference between estimation and costing	
	51	Overheads and their types,	
	52	estimation of material cost	
14	53	estimation of cost for machining	
	54	processes, numerical problems	
	55	Revision	
	56	Revision	
15	57	Revision	
	58	Revision	
	59	Revision	
	60	Revision	