

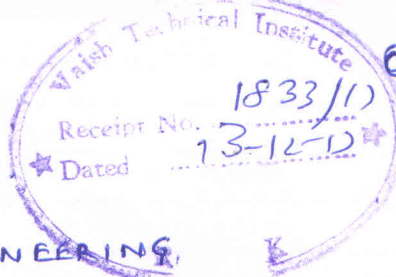
Name of Faculty: SMIL KUMAR

Discipline: MECHANICAL ENGG

Semester: 6th

Subject: INDUSTRIAL ENGINEERING

Lesson Plan Duration: 15 Weeks (From Jan. 2018 to Apr. 2018)



OLC AAAAM  
13/12

	Lecture	Topic to be covered
Week - 1	1	Introduction, factors affecting productivity, measurement of productivity.
	2	Causes of low productivity and methods to improve productivity
	3	Definition and scope of work study, Relationship between method study and work measurement.
	4	Human aspects of work study, Role of work study in improving productivity.
Week - 2	5	Objective and procedure for method analysis.
	6	Information collection and Recording techniques.
	7	- DO -
	8	- DO -
Week - 3	9	Principles of motion analysis
	10	Therbligs and SIMO charts
	11	Normal work area and design of work places, ergonomics
	12	Objectives, work measurement techniques
Week - 4	13	Stop watch time study, principle, equipment used and procedure.
	14	- DO -
	15	Systems of performance rating, calculation of basic times
	16	Various allowances, calculation of standard time
Week - 5	17	- DO -
	18	Standard data and its usage
	19	work sampling
	20	Introduction to wages
Week - 6	21	- DO -
	22	wage incentive plans
	23	- DO -
	24	- DO -
Week - 7	25	- DO -
	26	Incentives for indirect workers
	27	Introduction and objectives of PPC
	28	Components of P.P.C.
Week - 8	29	- DO -
	30	Advantages of P.P.C.

-2-  
INDUSTRIAL ENGINEERING

	31	Process Planning	
	32	Routing, Routing purpose, Route sheets	
Week - 9	33	Scheduling	
	34	Gantt chart	
	35	Dispatching, Purpose, Procedure	
	36	Follow up, Purpose, Procedure, Network Analysis	
Week - 10	37	CPM/PERT Technique, Drawing of simple networks and critical time calculation,	
	38	- DO -	
	39	- DO -	
	40	- DO -	
Week - 11	41	- DO -	
	42	- DO -	
	43	- DO -	
	44	Production control in job order, batch type and continuous type of productions	
Week - 12	45	- DO -	
	46	Introduction, Purpose / functions of estimating	
	47	costing concept	
	48	Ladder and elements of cost	
Week - 13	49	- DO -	
	50	Difference between Estimating and costing	
	51	Estimation of material cost	
	52	- DO -	
Week - 14	53	- DO -	
	54	Estimation of cost for machining processes	
	55	- DO -	
	56	- DO -	
Week - 15	57	Numericals	
	58	- DO -	
	59	- DO -	
	60	- DO -	