

Lesson Plan

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Name of Faculty : ANIL JAIN

Discipline : Automobile Engg.

Semester : 6th

Subject : Industrial Engineering.

Lesson Plan Duration : 15 Weeks (From 9th Jan 18 to April 18)

Week	Lect.	Topic to be covered
I	1	Introduction, factors affecting productivity, measurement of productivity
	2	causes of low productivity & methods to improve productivity.
	3	Definition & scope of Work Study
	4	Human aspects of work study, Role of work study in productivity
II	5	Objectives & procedure for Method analysis
	6	Information Collection & recording techniques.
	7	— do —
	8	Principles of Motion analysis
III	9	Therbligs & SIMO charts
	10	Normal Work area and design of work places, ergonomic
	11	Objectives, Work measurement techniques
IV	12	Stop-Watch time study, principle equipment used
	13	Procedure, systems of performance rating
	14	Calculation of basic times & allowances
	15	Calculation of Standard time
V	16	Work Sampling
	17	Standard data & its usages
	18	Ist - Sessional Test
	19	Introduction to wages
VI	20	— do —
	21	Wage Payment for direct labour
	22	Wage Payment for indirect labour
	23	Wage Payment Plans & Incentives
VII	24	— do —
	25	— do —
	26	Various Incentives for indirect labour
	27	— do —
VIII	28	Introduction & objectives of PPC
	29	Components of PPC
	30	— do —
IX	31	Advantages of PPC
	32	Stages of PPC.

Week	Lect.	Topic to be covered
IX	33	Process Planning
	34	Routing, Scheduling
	35	dispatching & follow-up
	36	Routing purpose, route sheets
X	37	Purpose of Scheduling
	38	Machine Loading chart
	39	Gantt Chart
	40	III - Sessional
XI	41	Dispatching purpose & procedure
	42	Follow up - purpose & procedure
	43	CPM/PERT technique
	44	- do -
XII	45	drawing of simple networks & Critical time ^{calculation} &.
	46	Production Control in Job order, batch type production
	47	Continuous type production, difference between these controls.
	48	Introduction, purpose/functions of estimating, Costing Concept.
XIII	49	Ladder & elements of cost, difference between estimating & costing.
	50	Overheads & their types.
	51	Estimation of material cost -
	52	- do -
	53	- do -
XIV	54	Estimation of cost for machining process
	55	- do -
	56	- do -
	57	- Numericals on Estimating & Costing
XV	58	- do -
	59	- do -
	60	III - Sessional