Name of Faculty : Mr. Rajan Dabar
Discipline : Mechanical Engineering
Semester : VI
Subject : Industrial Engineering
Lesson Plan Duration : 15 Weeks (9 January onwards)

Week	Theory	
	Lecture Day	Topic (Including assignment/test)
I	1	1.Introduction to Industrial Engg., Concept of productivity
	2	Factors Affecting Pproductivity
	3	Measurement of Productivity
	4	Causes of Low Productivity
II	5	Methods to improve productivity
	6	Methods to improve productivity
	7	Introduction to Work Study, Definition, Improtance of Work Study
	8	Scope ans Applications of work study
III	9	Introduction to Method Study
	10	Concept of Work measurement
	11	Inter-relation between method study and work measurement
	12	Human aspects of work study
IV	13	Work Study and Ergonomics
	14	Historical Developments, The Work of Taylor
	15	The Work of Gilbreths
	16	Role of work study in improving productivity
V	17	Review of Work Study
	18	Introduction to Method Study,Definition
	19	Objectives of Method Study
	20	Procedure for Method analysis
VI	21	Select the job – on which method study is to be applied
	22	Obtain information and record
	23	Examine the Information Critically
	24	Develop the most practical, economical and effective method by considering real limitations of the situation
VII	25	Install the new method as standard practice
	26	Maintain the Standard Practice by Regular Follow Up
	27	Principles of Motion analysis
	28	Therbligs
VIII	29	SIMO charts
	30	Use of SIMO charts & Draw SIMO Chart
	31	Normal Work Area and Design of Work Places
	32	Ergonomics

IX	33	Checking of Class work & Assignment -I
	34	Introduction to Work Measurement, Defination & its Objectives
	35	Work measurement techniques, stop watch time study
	36	Procedure of Time Study, Equpments used, Selction of Job & Selction of Worker for time Study
X	37	Systems of performance rating, Normal Performance
	38	Calculation of basic times and various allowances
	39	Calculation of standard time(Numericals)
	40	Numerical problems on Caluation of Standard time and Normal Time
XI	41	Work sampling, standard data and its usage, Advantage and Disadvantages
	42	Introduction to wages, Wage payment for direct and indirect labour
	43	Various Wage payment plans
	44	Incentives and various incentive plans
XII	45	incentives for indirect labour, Numericals on Wage Payments
	46	Production Planning and Control,ntroduction, objectives and components (functions) of P.P.C
	47	Advantages of production planning and Production Control, stages of P.P.C
	48	process planning, routing, scheduling
XIII	49	scheduling – purpose, machine loading chart, Gantt chart,
	50	dispatching and follow up, routing purpose, route sheets
	51	Dispatching – purpose, and procedure, follow up – purpose and procedure.
	52	Introduction to CPM/PERT technique, Objectives and Applications of CPM/PERT
XIV	53	Drawing of simple networks and critical time calculation
	54	Production Control in job order, batch type and continuous type of productions
	55	Introduction, purpose/functions of estimating, costing concept
	56	Ledger and elements of cost,difference between estimation and costing
XV	57	Overheads and their types
	58	Estimation of material cost & Cost for Machining processes
	59	Some numericals on Estimation & Costing of Mechanical Components
	60	Checking of Class Work & Assignment-II