Lesson Plan

Name of the Teacher with Designation	:	SH PAWAN KUMAR BALODA
Discipline	:	Mech. Engg.
Semester	:	4th Semester
Subject	:	Industrial Engineering
Lesson Plan Duration	:	15 weeks

Work Load (Lecture / Practical) per week (In hours) : Lectures : 03 , Practicals : Nil

Week	Theory			Practical	
	Lecture Day	Topic (Including Assignment / Test)		Practical Day	Topic
1st	1st	**Chapter-1 Productivity** Introduction to productivity, factors affecting productivity Measurement of productivity		1st	
	2nd	Causes of low productivity			
	3rd	Methods to improve productivity			
2nd	4th	**Chapter-2 Work Study** Definition and scope of work study		2nd	
	5th	Inter-relation between method study and work measurement			
	6th	Inter-relation between method study and work measurement			
3rd	7th	Inter-relation between method study and work measurement		3rd	
	8th	Human aspects of work study			
	9th	Role of work study in improving productivity.			
4th	10th	**Chapter-3 Method Study**		4th	
	11th	Method Study Objectives and procedure for Method analysis			
	12th	Information collection and recording techniques.			
5th	13th	Information collection and recording techniques.		5th	
	14th	Information collection and recording techniques.			
	15th	Information collection and recording techniques. **Assisnment No. 1** **Productivity, causes of low Productivity, Method to improve Productivity, Human Aspect of work study, Role of Work study to improve productivity, Information and Recording Techniques**			
6th	16th	**Sessional Test No. 1**		6th	
	17th	**Chapter-4 Motion Analysis** Motion Analysis , Principles of Motion analysis			
	18th	Motion Analysis , Principles of Motion analysis			
7th	19th	Therbligs and SIMO charts		7th	
	20th	Therbligs and SIMO charts			
	21st	Normal work area and design of work places. Ergonomics			
8th	22nd	**Chapter-5 Work Measurement** Work Measurement Objectives , Work measurement techniques		8th	
	23rd	Stop watch time study			
	24th	Principle, equipment used and procedure			
9th	25th	Systems of performance rating		9th	
	26th	Calculation of basic times; various allowances			
	27th	Calculation of standard time, work sampling			
10th	28th	Standard data and its usage		10th	
	29th	**Chapter-6 Wages and incentives Schemes**			
	30th	Wage payment plans and incentives			
11th	31st	Wage payment plans and incentives		11th	
	32nd	Various incentive plans, incentives for indirect labour **Assisnment No. 2** **Motion Analysis and its Principles, Therbligs and SIMO Chart, Work Measurement techniques, Stop watch Study Procedure, Standard data and Its usage, Wages plans , Various incentives for indirect labour.**			
	33rd	**Sessional Test No. 2**			
12th	34th	**Chapter-7 Production Planning and Control** Production Planning and Control Introduction, objectives and components (functions) of P.P.C		12th	
	35th	Advantages of production planning and Production Control, stages of P.P.C , Process planning, routing, scheduling, dispatching and follow up			
	36th	Routing purpose, route sheets, scheduling – purpose			
13th	37th	Machine loading chart, Gantt chart, dispatching – purpose and procedure		13th	
	38th	Follow up – purpose and procedure. CPM/PERT technique,			
	39th	Drawing of simple networks and critical time calculation , Production Control in job order			
14th	40th	Batch type and continuous type of productions. , Difference between these controls		14th	
	41st	**Chapter-8 Stores Management** Different Layout and structures of stores			
	42nd	Inventory control, calculation of EOQ			
15th	43rd	Bin cards and various forms required in stores for documentation. Purchase procedures		15th	
	44th	Estimation of cost for machining processes, Numerical problems **Assisnment No. 3** **PPC Objectives and its different stages, Machine loading chart and Gantt chart , PERT and CPM Techniques and difference between these two, Different Layout and structures of stores, , Inventory control, calculation of EOQ**			
	45th	**Sessional Test No. 3**			

Note: Practical column — Not Applicable