ASIAN SCHOOL OF TECHNOLOGY
Department of Mechanical Engineering

DISCIPLINE:	SEMESTER:		
MECHANICAL	6TH Sem	NAME OF THE TEACHING FACULTY: Sudhir ku Mahapatra	
SUBJECT: INDUSTRIAL ENGINEERING & MANAGEMENT	No of Days/Per week class allotted: 4 Class P/W(60)	Semester From Date To Date: No. Of Weeks: 15	
WEEK	CLASS DAY	THEORY TOPICS	REMARKS
1st	1st	Selection of Site of Industry.	Date / Dean/Principal
	2nd	Define plant layout.	
	3rd	Describe the objective and principles of plant layout.	
	4th	Explain Process Layout, Product Layout and Combination Layout.	
2nd	1st	Techniques to improve layout.	
	2nd	Principles of material handling equipment. 1.7 Plant maintenance.	
	3rd	Importance of plant maintenance	
	4th	Break down maintenance	
	5th	Preventive maintenance.	
3rd	1st	Scheduled maintenance	
	2nd	1 Introduction to Operations Research and its applications.	
	3rd	1 Introduction to Operations Research and its applications.	
	4th	Define Linear Programming Problem,	
4th	1st	Define Linear Programming Problem,	
	2nd	Solution of L.P.P. by graphical method.	
	3rd	Solution of L.P.P. by graphical method.	
	4th	Evaluation of Project completion time by Critical Path Method and PERT (Simple problems)-	
5th	1st	Evaluation of Project completion time by Critical Path Method and PERT (Simple problems)-	
	2nd	Explain distinct features of PERT with respect to CPM.	
	3rd	Explain distinct features of PERT with respect to CPM.	
	4th	Classification of inventory.	
6th	1st	Objective of inventory control.	
	2nd	Describe the functions of inventories.	

	3rd	Benefits of inventory control.		
	4th	Costs associated with inventory.		
7th	1st	DOUBT CLEAR CLASS		
	2nd	Terminology in inventory control		
	3rd	Terminology in inventory control		
	4th	Explain and Derive economic order quantity for Basic model. (Solve numerical)		
8th	1st	Define and Explain ABC analysis.		
	2nd	Describe planning of inspection		
	3rd	Describe types of inspection		
	4th	Advantages and disadvantages of quality control.		
9th	1st	Study of factors influencing the quality of manufacture.		
	2nd	**Doubt Clear Class**		
	3rd	Explain the Concept of statistical quality control, Control charts (X, R, P and C - charts).		
	4th	Methods of attributes.		
10th	1st	Concept of ISO 9001-2008.		
	2nd	Quality management system, Registration /certification procedure.		
	3rd	Benefits of ISO to the organization.		
	4th	JIT, Six sigma,7S, Lean manufacturing		
11th	1st	Solve related problems		
	2nd	Solve related problems		
	3rd	**Doubt Clear Class**		
	4th	**Doubt Clear Class**		
12th	1st	Introduction Introduction		
	2nd	Major functions of production planning and control		
	3rd	 Methods of forecasting		
	4th	Routing		
13th	1st	Scheduling		
	2nd	Scheduling		
	3rd	Dispatching		
	4th	Controlling		
14th	1st	Types of production 		
	2nd	Types of production		
	3rd	DOUBT CLEAR CLASS		
	4th	Mass production		
15th	1st	Batch production		
	2nd	Batch production		
	3rd	Job order production		
	4th	Principles of product and process planning.		