Synergy School of Engineering, Dhenkaral LESSION PLAN Sension 2023-24(S)

Discipline: Mechanical Engineering	Semester:6 TH	Name of the Teaching Faculty: Mihir Kumar Swain
Subject: Industrial Engineering Management (TH I)	No. Of Days/ Per week Class Allotted: 04	Semester From Date: 1/6 01 24 to 5 64 24 No. Of weeks: 15
Week	Class Day	Topic to be taught (Theory)
1st	1	Selection of Site of Industry. Define plant
	2	layout. Describe the objective and principles of plant layout
	3	Explain Process Layout, Advantages& Disadvantages
	4	Product Layout and Combination Layout.
2nd	5	Techniques to improve layout.
	6	Principles of material handling equipment.
	7	Plant maintenance. Importance of plant maintenance.
	8	Break down maintenance.
3rd	9	Preventive maintenance.
	10	Scheduled maintenance.
	11	Introduction to Operations Research and it applications.
	12	Define Linear Programming Problem,
14L	13	Solution of L.P.P. by graphical method.
Ith	14	Solution of L.P.P. by graphical method
	15	Evaluation of Project completion time by Critical Path Method
	16	Evaluation of Project completion time by PERT Method
	17	PERT&CPM Problems
th	18	PERT&CPM Problems
	19	PERT&CPM Problems
	20	Explain distinct features of PERT with respect to CPM.
:h	21	explain inventory, Classification of inventor
	22	Objective of inventory control.
	23	Describe the functions of inventories.
	24	Benefits of inventory control.
	25	Costs associated with inventory.
h		Terminology in inventory control
	27	Explain and Derive economic order quantity for Basic model.
-		Solve numerical

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	29	Solve numerical
8th		Define and Explain ABC analysis.
	30	and Quality control.
	31	Describe planning of inspection.
	32	of inchection.
9th	33	Advantages and disadvantages of quality
	34	
	25	control. Study of factors influencing the quality of
	35	f . t
	26	Explain the Concept of statistical quality
	36	4 1
	27	Control charts (X, R, P and C - charts).
10th	37	Methods of attributes.
	38	
	39	Quality management system, Registration
	40	/cortification procedure
		Benefits of ISO to the organization.
11th	41	JIT, Six sigma,
	42	7S, Lean manufacturing
	43	Solve related problems.
	44	a La related problems.
12th	45	Introduction to production planning and
	46	
		Major functions of production planning and
	47	
	•	Major functions of production planning and
.3th	48	
		Discuss Methods of forecasting
	49	
	50	Routing
	51	Scheduling
	52	Dispatching
	53	Controlling Types of production, Mass production
4th		Types of production, was pro-
	54	Batch production
	55	Job order production
	56	Principles of product and process planning
	57	Drobable questions solved
5th	58	Drobable questions solved
	59	Probable questions solved
	60	Propanie daesare

