



**LESSON PLAN-(SUMMER-2023)**  
**SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR**

Discipline- MECHANICAL	Semester-6TH	Name of teaching faculty- Er. Subhashree Jena
Subject- IE & M	No class allotted/ per week -4	SEM From date- 13.02.2023 to 23.05.2023 No of weeks- 15
Week	Class day	Theory Topics
<b>WEEK-1</b>	13.02.2023	CH-1 Introduction to industrial engineering. Define plant & Plant layout, Selection of Site of Industry.
	14.02.2023	Describe the objective and principles of plant layout
	15.02.2023	Explain Process Layout & Product Layout ,
	17.02.2023	Combination Layout & Techniques to improve layout
<b>WEEK-2</b>	20.02.2023	Principles of material handling equipment.
	21.02.2023	Plant maintenance, Importance of plant maintenance.
	22.02.2023	Break down maintenance, Preventive maintenance., Scheduled maintenance.
	24.02.2023	CH-1 Doubt clearing Class
<b>WEEK-3</b>	27.02.2023	CH-2 Introduction to Operations Research and its applications.
	28.02.2023	Define Linear Programming Problem.
	2.03.2023	Solution of L.P.P. by graphical method
	3.03.2023	Solved Problems based on LPP
<b>WEEK-4</b>	6.03.2023	Evaluation of Project completion time by Critical Path Method and PERT
	9.03.2023	Explain distinct features of PERT with respect to CPM.
	10.03.2023	Solved Problems based on PERT & CPM
	20.03.2023	CH-2 Doubt clearing Class
<b>WEEK-5</b>	21.03.2023	CH-3 Introduction to inventory control,, Objective of inventory control
	23.03.2023	Describe the functions of inventories
	27.03.2023	Benefits of inventory control.
	28.03.2023	Costs associated with inventory.
<b>WEEK-6</b>	29.03.2023	Terminology in inventory control
	31. 03.2023	Explain and Derive economic order quantity for Basic model.
	3.04.2023	Solve numerical. Problems on EOQ
	5.04.2023	Define and Explain ABC analysis
<b>WEEK-7</b>	6.04.2023	CH-3 Doubt clearing Class
	11.04.2023	ch1 & ch2 Class Test
	12.04.2023	ch -4 Define Inspection and Quality control.
	13.04.2023	Describe planning of inspection
<b>WEEK-8</b>	17.04.2023	Describe types of inspection
	19.04.2023	Advantages and disadvantages of quality control
	20.04.2023	Study of factors influencing the quality of manufacture.
	24.04.2023	Explain the Concept of statistical quality control,
<b>WEEK-9</b>	25. 04.2023	Control charts (X, R,P and C - charts).
	26.04.2023	Methods of attributes. Concept of ISO 9001-2008.
	27.04.2023	Quality management system, Registration /certification procedure
	28.04.2023	Benefits of ISO to the organization.
<b>WEEK-10</b>	1.05.2023	JIT, Six sigma,7S, Lean manufacturing
	2.05.2023	Solve related problem
	3.05.2023	CH-4 Doubt clearing Class
	4.05.2023	ch3 & ch4 Class Test

<b>WEEK-11</b>	8.05.2023	ch-5 Introduction PRODUCTION PLANNING AND CONTROL
	10.05.2023	Major functions of production planning and control
	11.05.2023	Methods of forecasting- Routing , Scheduling
	12.05.2023	Dispatching & Controlling
<b>WEEK-12</b>	15.05.2023	Types of production , Mass production
	16.05.2023	Batch production
	17.05.2023	Job order production
	18.05.2023	Principles of product and process planning
<b>WEEK-13</b>	19.05.2023	CH-5 Doubt clearing Class
	22.05.2023	PREVIOUS 3 YRS SEMESTER EXAM QUESTION DISCUSSION
	23.05.2023	CH-1 REVISION & IMP QUESTION DISCUSSION
HOD SIGN.	DEAN (Academic) SIGN.	PRINCIPAL SIGN.