



## LESSON PLAN-(SUMMER-2022)

### SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR

Discipline- <b>MECHANICAL</b>	Semester-6TH	Name of teaching faculty- Subhashee Jena
<b>Subject- IE &amp; M</b>	No class allotted/ per week -4	SEM From date- 10.3.2022 No of weeks- 15
<b>Week</b>	<b>Class day</b>	<b>Theory Topics</b>
<b>WEEK-1</b>	16.01.2024	CH-1 Introduction to industrial engineering. Define plant & Plant Selection of Site of Industry.
	17.01.2024	Describe the objective and principles of plant layout
	18.01.2024	Explain Process Layout & Product Layout ,
	22.01.2024	Combination Layout & Techniques to improve layout
<b>WEEK-2</b>	23.01.2024	Principles of material handling equipment.
	25.01.2024	Plant maintenance, Importance of plant maintenance.
	29.01.2024	Break down maintenance, Preventive maintenance., Scheduling maintenance.
	30.01.2024	CH-1 Doubt clearing Class
<b>WEEK-3</b>	31.01.2024	CH-2 Introduction to Operations Research and its applications
	01.02.2024	Define Linear Programming Problem.
	02.02.2024	Solution of L.P.P. by graphical method
	05.02.2024	Solved Problems based on LPP
<b>WEEK-4</b>	06.02.2024	Evaluation of Project completion time by Critical Path Method
	08.02.2024	Explain distinct features of PERT with respect to CPM.
	09.02.2024	Solved Problems based on PERT & CPM
	12.02.2024	CH-2 Doubt clearing Class
<b>WEEK-5</b>	13.02.2024	CH-3 Introduction to inventory control,, Objective of inventory control
	16.02.2024	Describe the functions of inventories
	19.02.2024	Benefits of inventory control.
	21.02.2024	Costs associated with inventory.
<b>WEEK-6</b>	22.02.2024	Terminology in inventory control
	24.02.2024	Explain and Derive economic order quantity for Basic model.
	26.02.2024	Solve numerical. Problems on EOQ
	27.02.2024	Define and Explain ABC analysis
<b>WEEK-7</b>	28.02.2024	CH-3 Doubt clearing Class
	29.02.2024	ch1 & ch2 Class Test
	01.03.2024	ch -4 Define Inspection and Quality control.
	04.03.2024	Describe planning of inspection
<b>WEEK-8</b>	05.03.2024	Describe types of inspection
	07.03.2024	Advantages and disadvantages of quality control
	11.03.2024	Study of factors influencing the quality of manufacture.
	13.03.2024	Explain the Concept of statistical quality control,

WEEK-9	14.03.2024	Control charts (X, R,P and C - charts).
	15.03.2024	Methods of attributes. Concept of ISO 9001-2008.
	18.03.2024	Quality management system, Registration /certification procedure
	20.03.2024	Benefits of ISO to the organization.
WEEK-10	21.03.2024	JIT, Six sigma,7S, Lean manufacturing
	22.03.2024	Solve related problem
	27.03.2024	CH-4 Doubt clearing Class
	28.03.2024	ch3 & ch4 Class Test
WEEK-11	29.03.2024	ch-5 Introduction PRODUCTION PLANNING AND CONTROL
	30.03.2024	Major functions of production planning and control
	01.04.2024	Methods of forecasting- Routing , Scheduling
	03.04.2024	Dispatching & Controlling
WEEK-12	04.04.2024	Types of production , Mass production
	08.04.2024	Batch production
	09.04.2024	Job order production
	10.04.2024	Principles of product and process planning
WEEK-13	11.04.2024	CH-5 Doubt clearing Class
	12.04.2024	PREVIOUS 3 YRS SEMESTER EXAM QUESTION DISCUSSION
	15.04.2024	CH-1 REVISION & IMP QUESTION DISCUSSION
	16.04.2024	CLASS TEST
WEEK-14	19.04.2024	CH-2 REVISION & IMP QUESTION DISCUSSION
	20.04.2024	CLASS TEST
	22.04.2024	CH-3 REVISION & IMP QUESTION DISCUSSION
	23.04.2024	CLASS TEST
WEEK-15	24.04.2024	CH-4 REVISION & IMP QUESTION DISCUSSION
	25.04.2024	CLASS TEST
	26.04.2024	CH-5 REVISION & IMP QUESTION DISCUSSION

HOD SIGN.

DEAN (Academic) SIGN.

PRINCIPAL SIGN.

H.O.D

Mechanical Engineering  
S V S.E.T., Madanpur

DEAN ACADEMICS  
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PRINCIPAL

Sarani Vratnanda School of Engg. & Tech.  
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