

PRODUCTION MANAGEMENT

Sem	Subject code	Category	Lecture		Theory		Credit
			Total Hrs	Hrs per week	Total Hrs	Hrs per week	
I		Core paper - IV	75	5	75	5	4

COURSE OBJECTIVE:

To familiarize learners with the production systems and enhance them to learn more about the plant location and layout, concepts of production planning and control, Dispatching, Quality control.

COURSE OUTCOMES:

On Successful completion Of the Course the student will be able:

CO Number	CO STATEMENT	Knowledge level (K1-K4)
CO1	To study the production systems and production management.	K1
CO2	To study the importance of plant location and plant layout.	K1
CO3	To know and understand the concept of production planning and control	K2
CO4	To understand about the various concept of routing, scheduling and maintenance	K2
CO5	To know the various quality control measures and inspection, To learn more about work study and work measurement.	K2

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze

MAPPING WITH PROGRAMME OUTCOMES

COS	PO1	PO2	PO3	PO4	PO5	PO6
CO1	M	S	S	S	S	S
CO2	M	S	S	S	M	S
CO3	S	S	M	S	S	S
CO4	S	S	M	M	S	M
CO5	S	S	S	S	S	S

S – Strong; M – Medium; L – Low

UNIT –I Introduction

15 Hours

Introduction : Production Management – Definition – Scope – Objectives – Functions - Production systems – Product - Difference between Product& services- Types of Production – Relationship of production with other functional areas - Responsibilities of a Production Manager – Problems of production management.

UNIT – II Plant location and plant layout

15 Hours

Plant Location:Importance –Objectives-- Factors influencing plant location-advantages and disadvantages of Urban, Suburban, Rural location –plant location problem.

Plant layout: Definition – Objectives – Principles – Principles – Factors influencing plant layout - Types of plant layout.

UNIT - III Production Planning and Control 15Hours

Production planning and control :Importance – Functions –Stages – Organisation for production planning and control – centralised and decentralised production planning and control – implementation – An integrated function – Measurement of effectiveness – problems of production planning and control

UNIT - IV Routing ,Scheduling and Dispatching 15 Hours

Routing:Definition - Importance – procedure - Factors affecting routing procedures.**Scheduling:** Definition – Objectives – Procedure for scheduling.

Dispatching and follow up: Dispatching rules – follow up –Needs – Types of follow up
Maintenance Management: Objectives – Types – Advantages and Disadvantages.

UNIT V: Quality control

15 Hours

Quality control: Definition – Principles – Control charts – X charts – P charts -

Inspections – Types of inspections – Work study – Definition – objectives – Importance –
 Procedure – Method study – Definition – Objectives – steps of method study – Work
 measurement – Techniques of work measurement.

TEXT BOOKS:

S.NO	Authors	Title	Publishers	Year of publication
1	Saravanavel P and Sumathi S	Production and Materials Management	Margham publication	2016
2	Gagan Deep Sharma MandeepMahendru	Production Management	Kalyani	2010
3	Dr.P.T.VijayaRajakumarDr.Bhuvaneshwari and Dr.C.Ganesan	Operations Management	Thakur	2014
4	Production Management	Production And Operations Management	Tata McGraw-Hill publishing co.ltd	2001
5	Paneerselvam	Production And Operations Management	Prentice-Hall of India	2006

REFERENCE BOOKS:

S.NO	Authors	Title	Publishers	Year of publication
1	Harding HA	Production Management	Macdonald and Evans	1974
2	MM Varma	Materials Management	Sultan chand and sons	2014
3	Adam and Ebert	Production And Operations Management	Prentice-Hall of India	1992
4	SN Chari	Production And Operations Management	Tata McGraw-Hill Education	1995
5	Khanna OP	Industrial Engineering and management	MartandTelsang	2006

TEACHING METHODOLOGY :

- 1.Chalk& Talk
2. Lecture
3. Seminar
4. Assignment
5. Chart preparation
6. PPT
7. Group Discussion
8. You tube class
9. Case study
10. Role play

SYLLABUS DESIGNER:

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