

SD COLLEGE HOSHIARPUR
DEPARTMENT OF COMMERCE

B.COM (V Sem)

Production and Operations Management

Sr. no	Topic	Teaching points	Specific objectives	Methods, approaches and techniques	Resources and links
Unit I	Introduction, Strategic Planning and Demand Forecasting, Production Planning and Control Techniques.	Introduction of Production and Operational Management: Meaning, Objectives and Scope. Strategic Planning and Demand Forecasting. Production Process and Analysis. Capacity Planning and Management. New Product/ Service Design and Development. Facility Location. Facility Layout. Production Planning and Control Techniques- Sequencing (Processing in Job through Two Machines) and Network Analysis - PERT/CPM (including Crashing).	The objective of this course is to enable the students to understand the concepts of production and operations management of an industrial undertaking.	Research study, Action research, Examples, Recent developments in industry, Discussion, Lecture method, PPT's Google meet for online students who are not vaccinated	B. Mahadevan "Operations Management Theory & Practice", Pearson Education. Kanishka Bedi, "Production & Operations Management", Oxford Higher Education. L.J. Krajewski & L.P. Ritzman "Operations Management Processes & Value Chains", Pearson Education. Kalyani Publishers www.slideshare.net Harvard Business School articles.
Unit II	Work Measurement	Work Measurement	The objective of	Research study, Action research, Examples, Recent	B. Mahadevan "Operations

	and Work Study, Inventory Management Fundamentals and Supply Chain Management.	and Work Study: Methods, Analysis and various Charts, Time Study and Principles of Motion Economy. Purchase Management. Inventory Management Fundamentals: Economic Order Quantity, Quantity Discount, Reorder Level, Lead Time, Safety Stock, JIT. Supply Chain Management: Concept & Components of Supply Chain, Activities in Supply Chain Management, Logistics Management.	this course is to enable the students to understand the concepts of production and operations management of an industrial undertaking.	developments in industry, Discussion, Lecture method, PPT's Google meet for online students who are not vaccinated	Management Theory & Practice", Pearson Education. Kanishka Bedi, "Production & Operations Management", Oxford Higher Education. L.J. Krajewski & L.P. Ritzman "Operations Management Processes & Value Chains", Pearson Education. Kalyani Publishers www.slideshare.net Harvard Business School articles
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Questions:

1. What do you mean by Production Management?
2. Explain the various dimensions of strategic planning in detail.
3. What are the various quantitative methods of demand forecasting? Also explain the criterion to explain suitable method.
4. What is meant by production process analysis? Discuss in detail the various tools used in process analysis.
5. What is capacity planning? Discuss its various determinants?
6. What is Product Development? Discuss various tools and techniques adopted by various organizations.
7. What is facility location? Explain various factors affecting it.

8. Write in detail various types of facility layout?
9. What are Sequencing problems? Explain assumptions.
10. Define the term crashing?
11. What do you mean by critical path? Explain its significance.
12. Write a detailed note on method study.
13. What is work measurement? Explain various techniques of work measurement.
14. What is Purchase management? Write different steps of purchasing.
15. Explain the following:
Buffer inventory, JIT, ABC costing, EOQ and Kanban
16. What is supply chain management? Explain in detail various components.
17. What is Logistics management? What are its various objectives?
18. Explain role of PERT/CPM in projects.