MBA II Year	MBA-E325/425		Semester-III/IV		
	Production Planning and Control				
Time Allotted for End	Marks Allotted	Marks Allotted for	Maximum	Total	Maximum
Semester	for Internal	End Semester	Marks (MM)	Credits	Hours
Examination	Assessment	Examination			
		(ESE)			
3 Hrs.	30 (20+10)	70	100	03	40

OBJECTIVE: To understand the various components and functions of production planning and control such as work study, product planning, process planning, production scheduling, Inventory Control. ● To know the recent trends like manufacturing requirement Planning (MRP II) and Enterprise Resource Planning (ERP)...

- Introduction Objectives and benefits of planning and control-Functions of production control-Types of production job- batch and continuous-Product development and design-Marketing aspect Functional aspects- Operational aspect-Durability and dependability aspect-aesthetic aspect. Profit consideration-Standardization, Simplification & specialization-Break even analysis-Economics of a new design. (8 hours)
- Work Study Method study, basic procedure-Selection-Recording of process Critical analysis,
 Development Implementation Micro motion and memo motion study work measurement Techniques of work measurement Time study Production study Work sampling Synthesis from standard data Predetermined motion time standards.

(8 hours)

- Product Planning And Process Planning Product planning-Extending the original product information-Value analysis-Problems in lack of product planning-Process planning and routing-Pre requisite information needed for process planning- Steps in process planning-Quantity determination in batch production-Machine capacity, balancing- Analysis of process capabilities in a multi product system (8 hours)
- Production Scheduling Production Control Systems-Loading and scheduling-Master Scheduling-Scheduling rules-Gantt charts-Perpetual loading-Basic scheduling problems Line of balance Flow production scheduling-Batch production scheduling-Product sequencing Production Control systems-Periodic batch control- Material requirement planning kanban Dispatching-Progress reporting and expediting-Manufacturing lead time-Techniques for aligning completion times and due dates. Case Study1: Bharat Tobacco: vendor selection and vendor rating

(8 hours)

Inventory Control And Recent Trends In PPC- Inventory control-Purpose of holding stock-Effect of demand on inventories-Ordering procedures. Two bin system -Ordering cycle system-Determination of Economic order quantity and economic lot size- ABC analysis-Recorder procedure-Introduction to computer integrated production planning systems- elements of JUST IN TIME SYSTEMS Fundamentals of MRP II and ERP. Case Study2: Health Pharma: managing supply chain:Need of ERP system (8 hours)

SUGGESTED READINGS:

- 1. Samson Eilon, "Elements of Production Planning and Control", Universal Book Corpn. 1984
- 2. Elwood S.Buffa, and Rakesh K.Sarin, "Modern Production / b Operations Management", 8th Ed. John Wiley and Sons, 2000. 3. Kanishka Bedi, "Production and Operations management", 2 nd Edition, Oxford university press, 2007.
- 3. Melynk, Denzler, "Operations Management A value driven approach" Irwin Mcgrawhill.
- 4. Norman Gaither, G. Frazier, "Operations Management" Thomson learning 9th edition IE, 2007
- 5. K.C.Jain & L.N. Aggarwal, "Production Planning Control and Industrial Management", Khanna Publishers, 1990.
- 6. S.N.Chary, "Theory and Problems in Production & Operations Management", Tata McGraw Hill, 1995.

- 7. Upendra Kachru, " *Production and Operations Management Text and cases*" Excel books 1st edition 2007.
- 8. **Case Study1:** Monica Singhania Gagan Gandhi , (2013)," Bharat Tobacco: vendor selection and vendor rating ", Emerald EmergingMarkets Case Studies, Vol. 3 Iss 2 pp. 1 8. Permanent link to this document:http://dx.doi.org/10.1108/EEMCS-02-2013-0019
- 9. **Case Study2:** Surajit Ghosh Dastidar Rahul Thakurta Anusha Sreeram , (2012),"Health Pharma: managing supply chain", Emerald Emerging MarketsCase Studies, Vol. 2 Iss 6 pp. 1 5. Permanent link to this document:http://dx.doi.org/10.1108/20450621211275156

NOTE: The list of cases, specific reference and books including recent articles will be announced in the class by concerned teachers from time to time.