

Revised syllabi (2019 Pattern) for three years B.Com. Degree course (CBCS)

Semester : - VI (T.Y.B.Com)

Subject Code :- PR- 366 (a)

Subject : - Business Administration – III (Production and Operations Management)

Preamble

The very essence of any business is to cater needs of customer by providing services and goods, and in process create value for customers and solve their problems. Production and operations management talks about applying business organization and management concepts in creation of goods and services. Production is a scientific process which involves transformation of raw material (input) into desired product or service (output) by adding economic value. Production can broadly categorize into following based on technique: Operations management is the process that generally plans, controls and supervises manufacturing and production processes and service delivery. Operations management is important in a business organization because it helps effectively manage, control and supervise goods, services and people. Production and Operations Management have a great utility in diverse fields. Businesses Houses seek executives that have a holistic understanding of the business, which includes Production and Operations Management.

Objectives of the course

5. To acquaint the student with knowledge of Production Management and Production Functions
6. To equip the students with knowledge for efficient Inventory Management and the recent development in the area
Inventory Management

7. To introduce the students to the concept of Quality Management and to motivate to adopt quality management even in the regular lifestyle
8. To update the students with the knowledge of Logistics Management

Depth of the program – Fundamental Knowledge

Unit No.	Unit Title	Contents	Skills to be developed
1	Production Management Functions	1.5 1.1.1 Meaning, Definition, Functions of Production Management, Responsibilities of Production Manager. 1.6 Production Planning - Objectives, Importance, levels of planning. 1.7 Routing & Scheduling - Meaning, Route Sheets, Scheduling, Master and sequential scheduling, scheduling devices. 1.8 Production control- Definition and meaning, Necessity, objectives, factors and techniques of production control	Conceptual Understanding Accessing and analysing information skills Technical Knowledge Analytical Skills

2	Plant Location and Plant Layout	<p>1.4 Introduction, importance, factors responsible for plant location.</p> <p>1.5 Plant Layout- Meaning, Definition, Importance of good layout, factors relevant for choice of layout, Line, Process and Product layout.</p> <p>1.6 Plant Layout - Advantages, disadvantages and techniques.</p>	<p>Conceptual Understanding</p> <p>Technical Knowledge</p> <p>Analytical Skills</p>
3	Inventory management & Quality Management	<p>1.7 Inventory management -Introduction, methods, Economic Order Quantity , Use of Computers in Inventory Management, Material Requisition Planning (MRP) , Just In Time (JIT),ABC Analysis</p> <p>1.8 Recent trends in Inventory Management - Radio Frequency Identification (RFID), Automated guided vehicles (AGVs) and automated mobile robots (AMRs), Artificial intelligence (AI) and Machine learning (ML), Distributed inventory management, Cloud-based solutions Predictive picking</p> <p>1.9 Quality Management – Features, Techniques of Quality Control</p> <p>1.10 Total Quality Management, Six Sigma, International Organisation for Standardisation (ISO)</p>	<p>Conceptual Understanding</p> <p>Analytical Skills</p> <p>Technical skills</p> <p>Awareness on the latest in the trends</p>

4	Supply Chain Management and Logistics management	<p>1.6 Supply Chain Concepts: Objectives of a Supply Chain, Stages of Supply chain, Value Chain Process, Cycle view of Supply Chain Process, Key issues in Supply Chain Management, Difference between Supply Chain Management and Logistics.</p> <p>1.7 Logistics: Evolution, Objectives, Components and Functions of Logistics Management, Distribution related Issues and Challenges, Transportation- Functions, Costs, and Mode; Network and Decision, Containerization, Cross docking.</p>	<p>Conceptual Understanding</p> <p>Analytical skills</p> <p>Accessing and analysing information</p> <p>Imaginative thinking</p> <p>Awareness on the latest in the trends</p>
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Teaching Methodology

Topic No.	Total Lectures	Innovative methods to be used	Film shows and AV Applications	Project	Expected Outcome
1	10	PPT , Lectures by Industry Exerts	Online Videos	-----	Conceptual Understanding
2	12	PPT , Visit to Factories to understand Plant Layout	Online Videos on functioning of Factories of reputed organisations	-----	Conceptual Clarity and Practical understanding

3	18	PPT, Lectures from experts of industry, Visit to organisations to study Inventory Management, Establishment of Quality Circles among Students	-----	Project Report on Innovative Inventory Management Techniques	Conceptual Clarity and Practical understanding Technical Understanding Awareness on Latest Trends
4	08	PPT, Lectures by Experts from the field Logistics Management, Case study of organisations such as Amazon Flipkart etc.	Online references of E-Commerce companies and their Logistics Management Practices	Project Report on any Logistics Management Organisation	Analytical skills Practical understanding Technical Understanding Awareness on Latest Trends n

Method of Evaluation

Subject	Internal Evaluation	External Evaluation	Suggested Add on Course
Unit – I	MCO, Field Visit Report	As per University norms	
Unit – II	MCO, Assignments, PPT	As per University norms	Certificate Course in Cloud Computing
Unit – III	MCO, Field Visit Report, Case Study	As per University norms	Certificate Course in Logistics Management
Unit – IV	MCO, Assignment, Field Visit Report Case Study	As per University norms	

References:

List of Books Recommended: -

- Modern Production and Operation Management ,Buffa Elwood S,Wiley India Ltd
- Production and Operation Management ,Sexena J.P., Tata McGraw-Hill Education Private Limited
- Production and Operation Management ,Madan Pankaj,Global Vision Publishing House
- Production and Operation Management ,Nair N.G.,Tata McGraw-Hill Education Private Limited
- Production (Operation) Management ,Jhamb L.C.,Everest Publishing House
- Production and Operations Management ,Adam and Ebert, Prentice-Hall
- Operations Management : Theory and Practice , B Mahadevan,Pearson
- Production and Operations Management , Panneerselvam,Prentice Hall India Learning Private Limited
- **Operations Management (McGraw-Hill Series in Operations and Decision Sciences)**
- Supply Chain Management: Strategy, Planning and Operation Chopra, Sunil, Meindl, Peter and Kalra, D. V. ,Pearson Education;;
- Supply Chain Management: Concepts and Cases Altekar, Rahul V , PHI Learning Reference.
- Supply Chain Management , Ballou, Ronald H ,Pearson Education.
- Supply Chain Management , Sahay, B.S. ,Macmillan;; 6. Business Logistics Management , Ballou, R.H. , Prentice-Hall Inc..
- Logistical Management, Bowersox D.J. ,Closs D.J., McGraw-Hill, 1996
- Fundamentals of Business Finance- Dr. R. M. Shrivastav
- Production, Operations Management - Dr.B.S. Goel (Pragati Prakashan Meerut) 7. Operations Management- Norman Gaither, Greg Frazaier (Sengage Learning) 8. Production Management - Chunawalla