



Kot Bhalwal, Jammu



Model Institute of Engineering  
& Technology (Autonomous)  
Course Handout

## COURSE HANDOUT

PRODUCTION MANAGEMENT (MBA-206)

MBA-2<sup>nd</sup> SEMESTER

ACADEMIC YEAR (2024-25)

**Dr. Navjeet Kaur**

Assistant Professor

School of Management



School of Management

Model Institute of Engineering & Technology (Autonomous)

Kot Bhalwal, Jammu - 181122

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Dr. Arun K. Gupta Teaching-Learning Centre

Version 1.1



Please Do Not Print Unless Necessary



## Detailed Syllabus

S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Marks		
								Sessional	Final Exam	Total
1	MBA-206	Production Management	Core	4	4	0	0	30	70	100

### COURSE OUTCOMES:

At the end of the course the student will be able to: -	
CO1	Describe the nature and scope of Operations Management.
CO2	Apply various concepts of operation management in selecting facility location and layout of production system.
CO3	Examine the scope of production planning and control to create competitive advantage.
CO4	Analyze the concepts of material and store management for acquiring a comprehensive overview of material procurement and storage.
CO5	Evaluate the techniques of Inventory Management and Quality control for their contribution towards operations management.

### Detailed Syllabus

#### Section A

#### UNIT I

**Introduction to Operation Management:** Introduction to Operations Management - Objectives, Nature, Scope, Importance, Functions, Relationship with other functional areas and Evolution from manufacturing to operations management. Emerging Trends in Operations Management. Types of Production System. (9 Hours)

#### UNIT II

**Facility Location and Layouts:** Facilities Location & Layout – Strategic importance, Factors affecting location & layout, Principles and Types of Facilities Layouts. Capacity Planning - concepts, Factors Affecting Capacity Planning, Capacity Planning Decisions, Line balancing, Supply Chain Management. (10 Hours)

#### UNIT III

**Production Planning and Control:** Importance and Functions of Production Planning & Control. Factors affecting PPC, Aggregate Planning - Aggregate capacity planning, approaches to Aggregate planning, Scheduling, Loading & Sequencing, Work Study - Method Study & Time Study; Productivity, Work Measurement. (9 Hours)

#### Section B

#### UNIT IV

**Material and Store Management:** Material Management - Concepts, Objectives & Importance, Integrated System of Materials Management, Materials Requirement Planning, Purchasing Systems, Vendor Analysis & Control. Store Management: Objectives, Functions. Types of stores and store layouts, Standard codification and variety reduction. (10 hours)



**UNIT V**

**Inventory and Quality Management:** Inventory Management: Meaning, Objectives, Benefits of Inventory management, Types of inventories and cost of inventories. Inventory management and control - process and Techniques of Inventory Control: ABC, EOQ, JIT manufacturing. Quality Management - Objectives, principles, functions & factors Affecting. Introduction to TQM, Six Sigma, Kanban & Kaizen.

(10 Hours)

**Textbooks**

S.No	Name of the Suggested Books	Name of Author	Publisher Name	Edition (Pub. Yr.)
1.	Production and Operations Management	Ajay K Garg	Tata Mc Graw Hill Education Pvt Ltd	6 <sup>th</sup> (2019)
2.	Production / Operations Management, Case Study Solution	S.N. Chary	Tata Mc Graw Hill Education Pvt Ltd	6 <sup>th</sup> (2019)

**Reference Books**

S.No	Name of the Suggested Books	Name of Author	Publisher Name	Edition (Pub. Yr.)
3.	Production and Operational Management	K Aswathapa, Bhat, Sreedhar Bhat	Himalaya Publishing House	3 <sup>rd</sup> (2024)
4.	Production and Operation Management	S.A Chunawalla and Patel	Himalaya Publishing	9 <sup>th</sup> (2017)

**COURSE PLAN**

**Unit-I Introduction to Operation Management**

S. No	Topics	Recommended Books
1	Introduction to Operations Management	Book 1, Ch.1
2	Nature, scope, importance and functions of Operation Management	Book 1, Ch.1
3	Relationship with other functional areas	Book 1, Ch.1
4	Evolution from Manufacturing to Operations Management	Book 1, Ch.1
5	Emerging Trends in Operations Management	Book 1, Ch.1
6	Types of production/operation systems	Book 1, Ch.1
Unit-II Facility Location and Layouts		
7	Facility Location & Layout	Book 1, Ch.10
8	Facilities Location & Layout – Strategic importance	Book 1, Ch.10
9	Factors affecting location	Book 1, Ch.10
10	Factors affecting layout	Book 1, Ch.13
11	Principles and Types of Facilities Layouts	Book 1, Ch.13
12	Capacity Planning - concepts: Factors Affecting Capacity Planning, Capacity Planning Decisions	Book 1, Ch.12
13	Line balancing	<a href="https://www.olanabconsults.com/a">https://www.olanabconsults.com/a</a>



		<a href="#">rticles/line-balancing-meaning-benefits-and-methods</a>
14	Supply Chain Management	Book 1, Ch 20
<b>Unit-III Production Planning and Control</b>		
15	Production Planning & Control (PPC) – Concepts and Importance	Book 1, Ch16
16	Production Planning & Control (PPC) – Functions	<a href="https://letstranzact.com/blogs/production-planning-and-control">https://letstranzact.com/blogs/production-planning-and-control</a>
17	Factors affecting PPC	Book 1, Ch16
18	Aggregate Planning - Aggregate capacity planning, approaches to Aggregate planning	Book 1, Ch14
19	Scheduling, Loading & Sequencing	Book 2, Ch 33
20	Work Study – Method Study and Time Study	Book 2, Ch 15
21	Productivity	Book 2, Ch 19
22	Work Measurement	Book 1, Ch 27
<b>Unit-IV Material and Store Management</b>		
23	Material Management - Concepts & Importance, Integrated System of Materials Management	Book 2, Ch 26
24	Materials Requirement Planning	Book 2, Ch 23
25	Purchasing System and Vendor Analysis & Control	Book 2 Ch 20
26	Store Management: Objectives, Functions. Types of Stores and Store layout	Book 1, Ch 21
27	Standard codification and variety reduction	<a href="https://egyankosh.ac.in/bitstream/123456789/11627/1/Unit-14.pdf">https://egyankosh.ac.in/bitstream/123456789/11627/1/Unit-14.pdf</a> <a href="https://hmhub.in/wp-content/uploads/2020/02/Unit-19-STANDARDISATIONCODIFICATION-AND-VARIETY-REDUCTION.pdf">https://hmhub.in/wp-content/uploads/2020/02/Unit-19-STANDARDISATIONCODIFICATION-AND-VARIETY-REDUCTION.pdf</a> <a href="http://elearning.nokomis.in/upload/documents/Inventory%20Management/Chp.10%20Codfication%20Standardisation%20and%20variety%20Reduction/PPT/ch%2010.pdf">http://elearning.nokomis.in/uploaddocuments/Inventory%20Management/Chp.10%20Codfication%20Standardisation%20and%20variety%20Reduction/PPT/ch%2010.pdf</a>
<b>Unit-V Inventory and Quality Management</b>		
28	Inventory Management: Meaning, Objectives and Benefits of Inventory management	Book 1, Ch 19 <a href="https://adynamics.com.my/inventory-management/">https://adynamics.com.my/inventory-management/</a>
29	Types of inventories and cost of inventories	Book 1, Ch 19
30	Inventory Management and Control – Process	Book 2, Ch 21
31	Techniques of Inventory Control: ABC, VED, FSN, EOQ,	Book 2, Ch 22 <a href="https://egyankosh.ac.in/bitstream/123456789/80818/3/Unit-5.pdf">https://egyankosh.ac.in/bitstream/123456789/80818/3/Unit-5.pdf</a>
32	JIT manufacturing	Book 2, Ch 36
33	Quality Management- Objectives, principles, functions & factors affecting	Book2, Ch 9, 10 <a href="https://egyankosh.ac.in/bitstream/">https://egyankosh.ac.in/bitstream/</a>



		<a href="#">123456789/35876/5/Unit-2.pdf</a>
34	Introduction to TQM, Six Sigma, Kanban & Kaizen.	Book 2, Ch 11 <a href="http://www.fmtvaranasi.edu.in/sites/default/files/TQM.pdf">http://www.fmtvaranasi.edu.in/sites/default/files/TQM.pdf</a> <a href="https://innocentrix.com/files/presentationintrosixsigma.pdf">https://innocentrix.com/files/presentationintrosixsigma.pdf</a> <a href="https://asana.com/resources/what-is-kanban">https://asana.com/resources/what-is-kanban</a> <a href="https://www.techtarget.com/searcherp/definition/kaizen-or-continuous-improvement">https://www.techtarget.com/searcherp/definition/kaizen-or-continuous-improvement</a>

#### ADDITIONAL WEB RESOURCES

1.	Course Pack Production Management 2025 created on Harvard Publishing House <a href="https://hbsp.harvard.edu/coursepacks/1262242">https://hbsp.harvard.edu/coursepacks/1262242</a>
2.	Swayam NPTEL course on Operations Management (AICTE-12 weeks) <a href="https://onlinecourses.nptel.ac.in/noc25_me59/preview?user_email=kaur.navjeet73@gmail.com">https://onlinecourses.nptel.ac.in/noc25_me59/preview?user_email=kaur.navjeet73@gmail.com</a>

#### GRADING AND ASSESSMENT

- **Sessional Test:** 15 marks
- **Assignment:** 10 marks
- **Attendance:** 5 marks
- **Final Examination:** 70 marks

#### COURSE POLICIES

- **Attendance:** Minimum 75% attendance is mandatory to appear in the final examination of the course.
- **Academic Integrity:** MIET's academic integrity policies apply. Plagiarism will not be tolerated.
- **Late Submissions:** Assignments and projects must be submitted by the specified timelines.

#### FACULTY INFORMATION

- **Office Hours**  
Monday (12:05 PM – 12:55 PM)  
Friday (12:05 PM – 12:55 PM)
- **Contact Information**  
[navjeet.mba@mietjammu.in](mailto:navjeet.mba@mietjammu.in)