

ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD
(Department of Business Administration)

WARNING

1. **PLAGIARISM OR HIRING OF GHOST WRITER(S) FOR SOLVING THE ASSIGNMENT(S) WILL DEBAR THE STUDENT FROM THE AWARD OF DEGREE/CERTIFICATE IF FOUND AT ANY STAGE.**
2. **SUBMITTING ASSIGNMENT(S) BORROWED OR STOLEN FROM OTHER(S) AS ONE'S OWN WILL BE PENALIZED AS DEFINED IN THE "AIOU PLAGIARISM POLICY".**

Course: Production and Operations Management

Code: 9545/8418/5032

Level: PGD/ BBA/ BS

Semester: Autumn, 2025

Credit Hours: 03

Please read the following instructions for writing your assignments.

(AD, BS, BEd, MA/MSc, MEd) (ODL Mode)

1. All questions are compulsory and carry equal marks but within a question, the marks are distributed according to its requirements.
2. Read the question carefully and then answer it according to the requirements of the question.
3. Avoid irrelevant discussion/information and reproducing from books, study guide or allied material.
4. Hand written scanned assignments are not acceptable.
5. Upload you typed (in Word or PDF format) assignments on or before the due date.
6. Your own analysis and synthesis will be appreciated.
7. Late assignments can't be uploaded at LMS.
8. The students who attempt their assignments in Urdu/Arabic may upload a scanned copy of their hand written assignments (in PDF format) on University LMS. The size of the file should not exceed 5 MB.

Total Marks: 100

Pass Marks: 50

ASSIGNMENT No. 1

Note: Attempt all the questions.

- Q. 1 What are the primary objectives of production and operations management (POM), and how do they support organizational competitiveness? **(20)**
- Q. 2 Explain the difference between *production management* and *operations management*. How do their scopes overlap in manufacturing and service industries? **(20)**
- Q. 3 How do Total Quality Management (TQM) and Six Sigma methodologies improve operational performance? Provide examples of their application in reducing defects or waste. **(20)**
- Q. 4 What role does technology (e.g., automation, IoT, or AI) play in modern production systems? Discuss its impact on productivity, flexibility, and scalability. **(20)**

- Q. 5 What challenges do companies face in capacity planning and scheduling, and how can strategies like *Just-in-Time (JIT)* or *lean manufacturing* address them? (20)

ASSIGNMENT No. 2

Total Marks: 100

Pass Marks: 50

This assignment is a research-oriented activity. You are required to obtain information from a business/commercial organization and prepare a report of about 1000 words on the issue allotted to you to be submitted to your teacher for evaluation.

You are required to select one of the following issues according to the last digit of your roll number. For example, if your roll number is P-3427180 then you will select issue # 0 (the last digit): -

ISSUES:

- 0 Quality Control Methods
- 1 Capacity Planning Environment
- 2 ABC Inventory Model
- 3 Probabilistic Time Estimate (PERT)
- 4 Problems of Production Management
- 5 Learning Curve Analysis
- 6 Simulation
- 7 Forecasting
- 8 Basic Approaches to Maintenance
9. Total Quality Manager

