



BBA

Semester V

Calicut University

Operations Management

Course Code: BBA5CJ303 • Module SYLLABUS Notes

Course Syllabus

Course Code: BBA5CJ303 | **Course Title:** Operations Management | **Semester:** V

Module I: Introduction to Operations Management & Facility Planning

- Unit 1: Nature, Scope, Functions, Objectives of Operations Management.
- Unit 2: Operations Strategy – Competitive Priorities (Cost, Quality, Speed, Flexibility).
- Unit 3: Facility Location – Factors, Qualitative & Quantitative Models (Center of Gravity).
- Unit 4: Facility Layout – Process, Product, Cellular, Fixed-Position Layouts.

Module II: Capacity Planning & Production Scheduling

- Unit 5: Capacity Planning – Measuring Capacity, Economies of Scale, Expansion Strategies.
- Unit 6: Aggregate Production Planning (APP) – Chase, Level, Hybrid Strategies.
- Unit 7: Master Production Schedule (MPS) & Material Requirements Planning (MRP I & II).
- Unit 8: Operations Scheduling & Sequencing (Johnson Rule, Priority Rules).

Module III: Work Study, Method Study & Work Measurement

- Unit 9: Work Study Concepts, Objectives, Procedure.

- Unit 10: Method Study – Process Charts, Therbligs, Motion Economy Principles.
- Unit 11: Work Measurement / Time Study – Standard Time Calculation, Allowances.
- Unit 12: Work Sampling & Ergonomics in Workplace Design.

Module IV: Inventory Management & Lean Operations

- Unit 13: Inventory Management – Selective Control Techniques (ABC, VED, FSN).
- Unit 14: Inventory Control Models – Economic Order Quantity (EOQ), Safety Stock.
- Unit 15: Lean Manufacturing Systems & Just-In-Time (JIT) / Kanban Production.
- Unit 16: Total Productive Maintenance (TPM) & Overall Equipment Effectiveness (OEE).

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