

MGMT 301 Operations Management

This course examines issues included in productions and operations management, design, operation and control of industrial enterprises, plant location, scheduling quality control, layouts, facilities, planning, material processing and inventory control.

(Prerequisite: MGMT 101, MATH 115) (3 credits)

Course Learning Outcomes:

By the end of the course, students will be able to:

1. Demonstrate critical knowledge and understanding of the principles and concepts of operations management, various process characteristics and how they support operations strategy.
2. Apply specialized skills in operations planning process and be able to identify and understand the linking of operations strategy with corporate strategy.
3. Apply specialized skills to manage inventory including Just in Time (JIT) systems in optimizing inventory levels.
4. Evaluate operational processes critically based on efficiency, effectiveness, flexibility, quality, cost management, responsiveness and productivity.
5. Use qualitative and quantitative techniques to critically analyse, address and solve operations management problems.
6. Use specialized skills to communicate ideas logically and persuasively when communicating in oral or written forms.
7. Work in a team with significant responsibility to prepare and present a project in some complex areas in the field of operations management.

Textbook & Course Materials:

- Stevenson, W. J. (2021). *Operations management* (13th ed.). McGraw-Hill Education.

Course Content:

1. Introduction to Operations Management
2. Competitiveness, Strategy, and Production
3. Project Management
4. Forecasting
5. Product and Service Design
6. Location Planning and Analysis
7. Management of Quality
8. Aggregate Planning
9. Inventory Management
10. MRP and ERP
11. JIT and Lean Operations
12. Supply Chain Management