

	National University of Sciences and Technology	
	Course Description	
Course Title Operations Management	Course Code DME 842	Credit Hours 3 – 0

Textbook:

- Operations Management, 10th ed., by Jay Heizer and Barry Render. Prentice Hall, 2011
- Operations Management, 11th or higher edition, William J. Stevenson, The McGraw-Hill/Irwin Series

Reference Books:

- Operations Management, by Nigel Slack, Stuart Chambers, Christine Harland, Alan Harrison and Robert Johnston, Pitman publishing, 2001.
- Operations Management, Design, Planning and Control for Manufacturing and Services, Dilworth B. James, McGraw-Hill International Editions.

Course Objective:

- Explain the concepts and fundamental principles related to Operations Management.
- Demonstrate the understanding of functions of Operations Management for manufacturing and service sector.

Course Description:

Introduces operations as a functional area of management and explores its links with other key functional areas of the firms. The students will learn about firm's (manufacturing and services) performance evaluation and management. It covers the areas such as resource planning, product and process design, process improvement, inventory management, production planning and scheduling, statistical quality control, project management, forecasting, technology deployment and its integration with modern decision support systems to support and improve the operational performance within the firm.

Course Outline:

Introduction to operations management, Intro to Quality and tools of quality, Statistical Process Control, Industrial revolution & Time and motion Studies, Introduction to Forecasting, Lean and JIT Manufacturing, Aggregate Planning, Material requirement Planning, Job scheduling, Layout planning – Interdepartmental Flow, Work Cell, Line balancing and Location Strategy, Intro to Inventory management, Intro to Supply Chain Management, Project Management.

ASSESSMENTS

Description	Percentage Weightage (%)
Assignments	05-10%
Quizzes	10-15%
Project	05-10%
Mid Semester Exams	30-40%
End Semester Exam	40-50%