



PRODUCTION AND OPERATION MANAGEMENT

PROF. RAJAT AGRAWAL

Department of Management
IIT Roorkee

INTENDED AUDIENCE : Management & Science students

INDUSTRIES APPLICABLE TO : BHEL, THDC, Hero Motocorp, UJVNL, Maruti, etc.

COURSE OUTLINE :

Production and operations Management will introduce students to the many operations topics and issues faced by leading organizations, both in service and in manufacturing. The goal of this course is to help students gain an understanding of what operations management involves, how it relates to other functional areas in an organization, the types of problems that are faced by operations managers, and common decision-making approaches.

ABOUT INSTRUCTOR :

Prof. Rajat Agrawal is a member of faculty (Associate Professor) at Department of Management Studies, Indian Institute of Technology Roorkee. He is also associate faculty member at Center of Excellence for Disaster Mitigation and Management and Center of Excellence for Transportation Management, IIT Roorkee. He administers various initiatives of IIT Roorkee in the field of IPR, incubation and entrepreneurship in different capacities. He initiated the incubation centre at IIT Roorkee. He is cocordinator of Design innovation centre at IIT Roorkee and is also the IPR Chair Coordinator there.

COURSE PLAN :

Week 1: Introduction to Operations Management

Week 2: Introduction to Forecasting

Week 3: Causal Methods of forecasting

Week 4: Various variations of EOQ

Week 5: Aggregate Sales and Operations Planning

Week 6: Nature of Quality

Week 7: Acceptance Sampling

Week 8: Facility Capacity

Week 9: Service Facility Layout

Week 10: Maintenance Management

Week 11: Process Analysis

Week 12: Supply Chain Strategy