



PRODUCTION AND OPERATION MANAGEMENT

PROF. RAJAT AGRAWAL

Department of Management
IIT Roorkee

TYPE OF COURSE : Rerun | Core | PG

COURSE DURATION : 12 weeks (24 Jan' 22 - 15 Apr' 22)

EXAM DATE : 23 Apr 2022

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