PRODUCTION AND OPERATION MANAGEMENT

PROF. RAJAT AGRAWAL
Department of Management
IIT Roorkee

TYPE OF COURSE : Rerun | Core | PG
COURSE DURATION : 12 weeks (18 Jan' 21 - 09 Apr' 21)
EXAM DATE : 24 Apr 2021

PRE-REQUISITES : Nil

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