南京航空航天大学
Nanjing University of Aeronautics and Astronautics

Syllabus

Course No.	1900840W	**College**	Operations Management	**Dept.**	Management science and engineering
Teacher	Shaofang Li				
Time	2021.06.21-2021.07.24				
Course Name	**English**	Operations Management			
	Chinese	运营管理			
Course credits hours	**Total**	**Theory**	**Office Hour or Practice**	**Credits**	
	70	60	10	4.0	

Course description: Describe the aims of the course

This course is an introduction to the concepts, principles, problems, and practices of operations management. Emphasis is on managerial processes for effective operations in both goods-producing and service-rendering organization. Topics include operations strategy, process design, capacity planning, facilities location and design, forecasting, production scheduling, inventory control, quality assurance, and project management. The topics are integrated using a systems model of the operations of an organization.

Requirements for courses; ability and knowledge in advance

Elementary knowledge of calculus and probability, or consent of the instructor.

Course structure explanation:

Week 1:

Course Introduction – Getting Started
Read the course syllabus
GOODS, SERVICES & OPERATIONS MANAGEMENT (Ch. 1)
VALUE CHAINS (Ch. 2)
FORECASTING AND DEMAND PLANNING (Ch. 11)
MEASURING PERFORMANCE IN OPERATIONS (Ch. 3)
OPERATIONS STRATEGY (Ch. 4)
QUIZ 1

Week 2:

TECHNOLOGY AND OPERATIONS MANAGEMENT (Ch. 5)
GOODS AND SERVICE DESIGN (Ch. 6)
PROCESS SELECTION, DESIGN AND ANALYSIS (Ch. 7)
FACILITY AND WORK DESIGN (Ch. 8)
CAPACITY MANAGEMENT (Ch. 10)
QUIZ 2

Week 3:

SUPPLY CHAIN DESIGN (Ch. 9)
MANAGING INVENTORIES (Ch. 12)
QUALITY MANAGEMENT (Ch. 15)
QUALITY CONTROL AND SPC (Ch. 16)
MID-TERM EXAM

Week 4:

RESOURCE MANAGEMENT (Ch. 13)
LEAN OPERATING SYSTEMS (Ch. 17)
QUIZ 3

Week 5:

OPERATIONS SCHEDULING AND SEQUENCING (Ch. 14)
PROJECT MANAGEMENT (Ch. 18)
FINAL EXAM

Teaching methods (Lectures, practice, etc)

A unique consideration in this course is a requirement for students to demonstrate a satisfactory level of competency or knowledge on several specific elements of the course. For these topics or problems a variety of approaches may be used including: timed quizzes and exams, discussion boards, and other approaches. Scoring of the course grade in the grading process is shown below.

Forms of evaluation and requirements
Structure of the final grade(including presence, class performance), quiz, discussion (Participation) Boards and focus of exams

Presence & Quiz (30%)
Discussion (Participation) Boards (30%)
Mid-term Exam (20%)
Final Exam (20%)

	Name	Publisher	Author	Year	Price
Textbook	Operations Management Goods,Services and Value Chains	South-Western Cengage Learning	David Collier and	2011	

			James Evans		
References	**Name**	**Publisher**	**Author**	**Year**	**Price**
Website					
Course members					
College	**Economics and management**				