

Course Outline

Course Code : DOS 3703

Course Title : Service Operations Management Class Date : From 15/1/2024 To 19/4/2024 Semester : Semester 2, Academic Year 2023-24

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Overview

Dominant and ever-increasing role of Service Operations:

Today the service sector is dominating the economies of most developed nations. In the United States, service sector accounts for over three fourth of the GDP and almost 85% of employment. In Singapore, the services sector, a vital engine of growth, contributes to over 75% ofemployment and to over 60% of the GDP. In today's environment almost every manufacturing firm also has, as a part of business strategy, specific business Unitsproviding service operations. This will provide the competitive edge and thus increase customer satisfaction. Jerry Gregoire, CIO, Dell Computers says, "The customer experience is the next competitive battleground".

Importance of operational efficiency in Services:

Under these circumstances, while efficiency is one key ingredient for a successful firm, for a service industry this is especially true. Management in service industry is affected by the challenges of non-tangible aspects which play key role in customer satisfaction and hence impact efficiency. Hence understanding how to efficiently run and manage service operationswill provide a significant advantage to graduates who are most likely to find themselves employed by a service based or service-oriented firm, in the present environment.

Course Objectives

Two aspects which will form the background of the course are: the importance of aligning the design and management of services with the marketing strategy of the firm and the impact and management of variability in services.

The course will focus on providing students with an understanding of:

- how to analyze service operations, how decision making differs and how implementation hurdles are addressed while operating services.
- how strategic vision is a necessity for successful service companies whether they are banks, airlines, hospitals, utilities, retailing, restaurants, or theatre groups. Consequently, the course will explore basic elements of the service operations strategy. These concepts will be illustrated with wide range of examples from health care, financial services, retail, delivery services, airlines, etc.
- numerous quantitative tools and models that will help the students to model, to analyze and to manage in this complex environment.
- How the digital internet era has started redefining service operations.





<u>Assessment</u>

Assessment Components Weight	
Individual Simulation Assignment 10%	
Group Class Presentation	10%
Group Assignment	15%
Group Project 20%	
Individual Midterm Test 15%	
Individual Final Test	30%

Schedule and Outline

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Week	Session	Session outline/ focus
1	Session-01	Course Intro - Dominating role of Service Operations in today's world Focus: Recap OM relevant basics, historical operations; ops & competitive strategy
2	Session-02	Focus - Tools for price and cost Focus: BEP with a difference/ABC for service ops /Price Waterfall effect
3	Section-03	Focus - Tools for Predicting demand Forecasting techniques
ues	Session-04	Focus - Tools for Predicting demand Forecasting and Guesstimation
5	Session-05	Tools for setting up operations -project management Focus on CPM/ PERT and crashing of projects
6	Session-06	Tools for manpower planning and work allocation Focus: Learning curve – bottleneck concept
6	Session-07	Mid term test Introducing bottlenecks. TOC Concepts
7	Session-08	Managing with the help of bottlenecks Focus : Line balancing and Theory of constraints
8	Session-09	Managing probabilistic situations -monte Carlo simulation Focus " On time departure / where to sell /Profit prediction situations
9	Session-10	Further on simulation application for service ops. Focus : Other areas of application
10	Session-11	Manging differential pricing in service operations Focus: Differential Pricing & Yield Management in airlines and hotels
11	Session-12	Location planning tools/ Intro to service quality Focus: Key Location planning techniques
13	Session-13	Final test

<u>General Guide & Reading</u> (e.g. Case preparation guide, project report guide, main textbook & supplementary materials, etc)

<u>Reference Text:</u> Service Management Operations, Strategy, Information Technology - James A Fitzsimmons & Mona J Fitzsimmons; supplementary material will be provided for each session in Canvas





Academic Honesty & Plagiarism

Academic integrity and honesty is essential for the pursuit and acquisition of knowledge. The University and School expect every student to uphold academic integrity & honesty at all times. Academic dishonesty is any misrepresentation with the intent to deceive, or failure to acknowledge the source, or falsification of information, or inaccuracy of statements, or cheating at examinations/tests, or inappropriate use of resources.

Plagiarism is 'the practice of taking someone else's work or ideas and passing them off as one's own' (The New Oxford Dictionary of English). The University and School will not condone plagiarism. Students should adopt this rule - You have the obligation to make clear to the assessor which is your own work, and which is the work of others. Otherwise, your assessor is entitled to assume that everything being presented for assessment is being presented as entirely your own work. This is a minimum standard. In case of any doubts, you should consult your instructor.

Additional guidance is available at:

- Administrative Policies
- http://www.nus.edu.sg/registrar/administrative-policies-procedures/acceptance-record#NUSCodeofStudentConduct
- http://nus.edu.sg/osa/resources/code-of-student-conduct