Service Operations Management

Course Objectives

This course enlightens to the concepts, principles, problems, and practices of successful service operations management. Emphasis is focused on preparing students to identify and apply appropriate management processes to ensure efficient, effective, and quality oriented service operations, while achieving operational excellence.

Syllabus

Understanding Services economy, Demand and Capacity issues in service systems, Service Inventory and Supply Chain Management, Service Quality, Service facility, - Live Project or case study analysis.

Expected Outcome

Upon completion of this course, the students will be able to:

1. To obtain an overview of the successful Service Operations Management (SOM) function through the introduction of the topics traditionally associated with the study of Service Operations Management. 2. To develop an understanding of the terminology and responsibilities that relate to Service Operations Management. 3. To formulate and describe the function of the Service Operations Management discipline in various sectors.

References

- 1. B. Fitzsimmons, James A., and Mona J. Fitzsimmons, Service Management: Operations, Strategy, and Information Technology, McGraw Hill Education (India) Private Limited, 2014
- 2. Robert Johnston, Service Operations Management, Pearson Education, 2007
- 3. C. Haksever and Render B, Service Management, Student Workbook: An Integrated Approach to Supply Chain Management and Operations, Financial Times/ Prentice Hall, 2013
- 4. Richard D Metters, Successful Service Operations Management, Cengage, 2012
- 5. W. Earl Sasser Jr., Leonard A. Schlesinger and James L. Heskett, The Service Profit Chain, Free Press, 1997
- 1. Silei Shan, Analysis of Hospital Pharmacy Inventory Consolidation Decision Using Multi-Echelon Newsvendor Inventory Model, Proquest, Umi Dissertation Publishing, 2012 William J Holllins, Managing Service Operations: Design and Implementation, Kindle Edition, SAGE Publications Ltd, 2006

- 2. J. Nevan Wright and Peter Race, The Management of Service Operations, Cengage Learning EMEA, 2003
- 3. Bitran, G. and Lojo, M. (1993), A framework for analysing service operations, European Management Journal, 11 (3), 271 282. http://dspace.mit.edu/bitstream/handle/1721.1/47924/frameworkforanal00bitr.pdf?sequence=1
- 4. Nambisan, S. (2001), Why service businesses are not product businesses, MIT Sloan Management Review, Summer 2001, 72 80, http://sloanreview.mit.edu/article/why-service-businesses/
- 5. Sawhney, M., Balasubramanian, S. and Krishnan, V.V. (2004), Creating growth with services, MIT Sloan Management Review, Winter 2004, 34 43.
- 6. Heskett, J.L. (1991), Lessons in the service sector in The Service Management Course: Cases & Reading, Free Press, 47 64.
- http://www.mktgsensei.com/AMAE/Services/Creating%20Growth%20through%20Services.pdf 7. Shah, J. and Murty, L.S. (2005), Compassionate high quality health care at low cost: The Arvind Model, IIMB Management Review, 16 (3), 31 43.
- http://www.mktgsensei.com/AMAE/Services/Creating%20Growth%20through%20Services.pdf 8. Schneider, B. and Bowen, D.E., (1999), Understanding customer delight and outrage, Sloan Management Review, Fall 1999 35 45. http://www.customerdelight.nu/content/04-artikelen/02-artikel-b/delight.schneider.pdf
- 9. Metters, R. and Vargas, V., (2000), A typology of decoupling strategies in mixed services, Journal of Operations Management, 18, 663 682. http://www.business.uzh.ch/professorships/som/stu/Teaching/HS09/doc/sem1/MettersVargas200 0. pdf
- 10. Ravichandran, N, and Bahuguna, D, (2006), Rule bound government agency to customer centric service facility: Can Indian passport offices make the leap?, IIMB Management Review, 18 (1), 59 66. http://www.iimb.ernet.in/publications/review/march2006/government-agency
- 11. Harrel, C., Ghosh, B.K. and Bowden, R. (2000), Modeling Service Systems, Chapter 13 in Simulation using PROMODEL, Mc Graw Hill, 321 337. http://isss.uni-leipzig.de/index.php/Download-document/72-paper_bottcher.html
- 12. Putting the Service-Profit Chain to Work, Heskett, Jones, Loveman, Sasser, Schlesinger, Harvard Business Review, March-April 1994, 164-174. (94204). https://hbr.org/2008/07/putting-the-service- profit-chain-to-work

13. M. A. Cohen, N. Agrawal and V. Agrawal, Winning in the Aftermarket, Harvard Business Review, June 2006, pp. 129-138. https://hbr.org/2006/05/winning-in-the-aftermarket 14. Production and Operations Management ebook: http://dl4a.org/uploads/pdf/Ebook%20for%20PRODUCTION%20AND%20OPERATIONS%20 MANAGE MENT.pdf

COURSE PLAN

1 Understanding Services Economy

Overview and imperatives of Services; Global trends in Services Sector; Changing paradigms in Competitiveness of services; Services – Manufacturing Continuum; Recent trends in manufacturing, increased role of services in manufacturing; Developing an overall vision for the service system; Developing a service strategy; Service Positioning & Implications for Service Delivery - Design Degree of customer contact, divergence, customization; Service blue printing; Service Enhancement using Internet; Pricing strategies in Services; Performance issues in service systems; value of self-service in an economy; roles of front-line employees, customers, operations, and marketing in the service innovation process.

2 Demand and Capacity issues in service systems

Capacity demand in services; - Smoothing Customer Demand In Services; Service Capacity Management; Yield management; Resource and Workforce Scheduling in Services; Capacity, Capacity build up strategies Capacity Vs System Performance; Introduction to Queuing System; Queuing Theory Applications in Service Systems; Characteristics of Queuing system; Queuing Models; Demand and capacity issues related to growth, expansion strategies, franchising. Offshore operations; Services Management in IT/ITES Sectors Capacity Management Issues.

First Internal Examination

Service Inventory and Supply Chain Management

Service inventory management; Service supply chains; Processes in Service Supply Chain; Data Envelopment Analysis; Simulation as a tool for design of services; Use of simulation software for modelling; Nature of design issues addressed using simulation; Simulation Applications in Service System Design; Vehicle Routing and Scheduling; Inventory Pooling.

4 Dimensions in Quality, Service Quality Five Gap Model; Kano's Model; Measuring Service Quality – SERVQUAL, Walk-through Audit; Service Recovery – Service Guarantees, Service encounter – triad, service culture, Service profit chain – Service consolidation; Critical Fractiles: The Newsvendor Model (Optimal Service Levels).

Second Internal Examination

5 Process behaviour – environmental dimensions – framework; Facility design – nature, objectives, process analysis – process flow diagram, process steps, simulation; Service facility layout; Service Facility Location – considerations, facility location techniques – metropolitan metric, Euclidean, centre of gravity, retail outlet location, location set covering problem; Ford's Auto collection concept;

Product Support – Customer Centric strategy, repairable parts inventory management, Performance based logistics.

Service Improvement – a mini-consulting project. It involves use of the methodologies introduced in class to analyze a real life service operations system, diagnose its problems, identify opportunities for improvement and quantify potential costs, benefits, risks and service impacts (at a nearby service station or Car dealership or automobile workshop or the like)

Final Examination