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In present time of intense global competition, customers are demanding more and more variety, with better quality and service at lowest cost. This means that in order to be successful, firms need to develop supply chain strategies and logistical capabilities that serve the needs of their customers whilst maximizing overall profitability. All supply chains, in order to function properly, must focus on the huge opportunity that exists in their analytics. Specific objectives: On successfully completing this course you will be able to: • Understand the importance of the basics of Business Analytics and Optimization • Understand the importance of the basics of Supply Chain Analytics and Optimization • Analyze the level of uncertainty associated with the supply of products and services to targeted customer segments and justify the choice of a supply chain strategy and its fit with competitive strategy. • Explain the role and applications of Descriptive Analytics in a Supply Chain • Explain the role and applications of Predictive Analytics in a Supply Chain • Explain the role and applications of Prescriptive Analytics in a Supply Chain • Learn the basics of Modeling through R Language INTENDED AUDIENCE : It is an elective course for PG students and working professionals. PREREQUISITES : Basic knowledge of Operations management will be desirable. INDUSTRY SUPPORT : Supply Chain Analytics is a growing field. Some of the companies already in the business of Supply Chain Analytics and may recognize the online course can be IBM, Mu-Sigma, Genpact, Accenture, Capgemini, Wipro, Deloitte What Is Differentiation & Integration... Complexity in Business: Definition,... How to Establish Quality Control... Manufacturing Objectives List of Objectives of Production... Functional Vs. Matrix Organization... Types of Organizational Change... How to Describe the Three Segments... What Is Modularization in Supply... What Are the Functions of Production... Explain Operating Segments of an... What Is Organizational Restructuring? What Is Apple's Competitive Advantage... How to Start a Product Development... The Advantages of Holding a Large... Something went wrong. Wait a moment and try again. Week 1 : Introduction to Modeling and Analytics in Supply Networks: Introduction to Supply Network Performance Measures for Efficiency and Effectiveness, SCOR model, Strategic Fit and Scope, Types of Distribution Networks, Analytics in Management, Design of Distribution Networks Week 2 : Supplier Selection Analytics: Linear Programming, Rating method, Ranking method, Borda Count, Clustering, Goal Programming and related multi-criterion decision making (MCDM) techniques Week 3 : Transportation Modeling and Analytics: Transportation models, Route planning, Transshipment, Shipment schedule, Flow path optimization. Week 4 : Warehousing Modeling and Analytics: Warehouse location problem, MILP formulation, Location with foreign exchange risks, space calculation for warehouse, Non-linear optimization for warehouse space allocation Week 5 : Strategic Performance Improvement: Data Envelopment Analysis for competitive comparisons among multiple warehouses and service units and formulation of strategic action plans for improving the efficiencies of non-performing DMUs, Stochastic Frontier Analysis. Week 6 : Inventory Analytics - I: Elementary Concepts related to Inventory Management, Economic Order Quantity (Instantaneous Replenishment), Economic Production Lot Size, Inventory Model with Planned Shortages (Back-Orders), Inventory Management under Uncertainty – Concept of Safety Stock, Continuous Review System, Periodic Review System Week 7 : Inventory Analytics - II: News vendor Model, Performance Measures: Expected Lost Sales, Expected Sales, Expected Leftover Inventory, Expected Profit, Fill Rate, In-Stock Probability, and Stock-Out Probability Week 8 : Inventory Analytics - III: Choosing an Order-up-to Level to Meet a Target Service Level, In-Stock Probability, and Desired Fill-Rate Week 9 : Inventory Analytics - IV: Assemble-to-Order, Make-to-Order and Quick Response with Reactive Capacity, Reducing Mismatch Costs with Make-To-Order Week 10 : Modeling Coordination in Supply Chains: Information Distortion in Supply Network and Bull-Whip Effect, Coordination and collaboration modeling in supply networks. Week 11 : Risk Analytics in Supply Network Design: Mapping the riskiness profile of a country, taxation, Mapping the riskiness profile of possible international routes and Designing the route plan based on riskiness profile Week 12 : Design and Modeling the global supply chain: Design and optimization of global supply chain networks, Multi-period supply chain network design In present time of intense global competition, customers are demanding more and more variety, with better quality and service at lowest cost. This means that in order to be successful, firms need to develop supply chain strategies and logistical capabilities that serve the needs of their customers whilst maximizing overall profitability. All supply chains, in order to function properly, must focus on the huge opportunity that exists in their analytics. 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