

COURSE DESCRIPTIONS OF DEPARTMENTAL SPECIALIZATION COURSES (MBA)

OPERATIONS AND SUPPLY CHAIN MANAGEMENT (OSCM)

OSCM 6001: Supply Chain Management

Pre-requisite: MBA 5312

This course provides an opportunity to study and apply supply chain management knowledge and skillsets in different business settings that students need for a prosperous professional career. The supply chain strategies and performance drivers covered in this course are used across multiple supply chain stages, including supplier, manufacturing, distribution, retail, and customer end. Topics include supply chain overview, strategic fit, performance drivers, distribution network, demand forecast, inventory management, transportation, information systems, sourcing, and pricing. The course focuses on essential supply chain management knowledge, problem-solving skills, analytical thinking of case studies, and software use. The students must also complete assignments that will help them better understand and apply supply chain models in real-world practical situations. Therefore, this course develops the student in the following categorical areas: cognitive knowledge of materials and management for different business situations; psychomotor skills to solve problems and cases in various business scenarios; and development of the student as a confident resource person to add value in real-life operations and supply chain environment.

OSCM 6002: Advanced Project Management

Pre-requisite: MBA 5312

This course provides an opportunity to study the fundamental concepts and best practices of project management, as per the PMBOK® Guide. Therefore, this course prepares the students in three categorical areas: basic knowledge of project management, psychomotor skills for applying the tools and techniques of project management, and affective appreciation of project management strategies. Therefore, the course meets the students' needs for all conceptual, analytical, and organizational skills for current professional domains. This course lets the students analyze practical case studies covering project management process groups throughout the project life cycle. This course also develops student skills to develop project plans and documents in such knowledge areas as project integration, scope, time, cost, quality, human resources, and communication management. Classroom tasks, case study assignments, and lab work are completed individually and in groups. At the end of the course, students will also develop the confidence and competencies to add value for completing projects in diverse enterprise environments.

OSCM 6003: Materials and Inventory Management

Pre-requisite: MBA 5312

The materials and inventory management fundamentals covered in this course are used across multiple supply chain stages, including supplier, manufacturing, distribution, retail, and customer end. Topics include inventory management overview, effective inventory management, inventory classification systems, economic order quantity, economical production quantity, quantity discount models, inventory safety stock under uncertainty, inventory as money, warehousing, packaging, and material handling. The course also focuses on material and inventory management knowledge, problem-solving skills, analytical thinking of case studies, and software use. The students must complete assignments that will help them better understand and apply inventory models in real-world practical situations. Therefore, this course develops the student in the following categorical areas: cognitive knowledge of materials and management for different business situations; psychomotor skills to solve problems and cases in various business scenarios; and development of the student as a confident resource person to add value in real-life operations and supply chain environment.

OSCM 6004: Strategic Sourcing and Procurement

Pre-requisite: MBA 5312

Sourcing is a firm's most critical decision, and industry actions vary. Procurement can be considered as a subset of sourcing-related activities. This course develops an understanding of the strategic role of sourcing decisions in supply chain management. Students shall apply concepts and techniques to evaluate essential factors such as costs, price, risks, and globalization while considering supplier selection and other sourcing-related decisions. This course also offers students the opportunity to

acquire hands-on training regarding contract management and negotiation tactics. This course also prepares the student in the following three categorical areas: cognitive knowledge of strategic sourcing and procurement for different business situations; psychomotor skills to solve problems and cases in various business scenarios; and development of the student as a confident resource person to add value in real-life operations and supply chain environment.

OSCM 6005: Global Logistics Management

Pre-requisite: MBA 5312

This course provides an opportunity to study global logistics management knowledge and apply the essential skill sets under different business settings that a student needs for a prosperous professional career. The fundamentals of global logistics management covered in this course are used across global supply chain stages, including supplier, manufacturing, distribution, retail, and customer end. Topics include global logistics management overview, customer service, customer demand, inventory management, transportation, logistics design, warehousing, packaging, and material handling. It also focuses on global logistics management knowledge, problem-solving skills, analytical thinking of case studies, and software use. The students must complete assignments and relevant case studies to understand better and apply techniques in real-world practical situations.

OSCM 6006: Managerial Decision Models

Pre-requisite: MBA 5312

This course introduces the basic principles and techniques of applied mathematical modeling for managerial decision-making. Students learn to use more critical analytic methods (e.g., spreadsheet modeling, optimization) to recognize their assumptions and limitations and employ them in decision-making. Students learn to develop mathematical models that can improve decision-making within an organization, sharpen their ability to structure problems, perform logical analyses, translate descriptions of decision problems into formal models, and investigate those models in an organized fashion. Identify settings where models can be used effectively, apply modeling concepts in practical situations, and strengthen their computer skills, focusing on using the computer to support decision-making. The emphasis is on model formulation and interpretation of results, not on mathematical theory.

OSCM 6007: Management of Service Operations

Pre-requisite: MBA 5312

This course involves profoundly understanding customers, competitors, and the firm's internal mechanisms. Also, service organizations must respond to customers' requirements to satisfy some needs and leave specific experiences in the customer's minds through a service management system. It addresses the various aspects of managing service systems, including strategies, processes, design, delivery, capacity management, location planning, and work scheduling, among other operational, tactical, and strategic issues.

OSCM 6008: Quality Management Systems

Pre-requisite: MBA 5312

The course explains quality management's principles, phenomena, and tools. It ensures the adoption of theoretical and practical knowledge and skills in quality management. On successful completion of this course, students can define the basic concepts and terminologies and overcome legislative framework in the subject area of quality, quality control, and quality management system; describe ways of applying quality management in the actual organization; demonstrate the capability of making quality process for the selected process; perceiving the organization to determine the existence or non-existence of the implemented quality management system; demonstrate the capability of making quality process, given the well-known process; identify the standard that could be applied; the roles and responsibilities of legislative reference framework; choose the optimal approach to the analysis of a given function by describing the activities. Therefore, this course prepares students in three categorical areas: (a) fundamental knowledge of quality management, (b) psychomotor skills of application of that knowledge, and (c) affective behavior for developing proper quality management strategies.

MIS 6011: Blockchain Technologies in Business

Pre-requisite: MBA 5312

This course gives students a basic understanding of blockchain technology, its history, and how it relates to the new digital economy. Covering essential areas and using cases regarding blockchain technology, how it's disrupting domains such as Fintech, Digital government activities, eHealth, E-procurement, Smart Cities, etc., and how to use blockchain technology to create new business opportunities. The students will learn to analyze and quantify blockchain's changes in various industries, understanding blockchain technology, its challenges, and limitations.