

CERTIFICATE IN LOGISTICS MANAGEMENT

Logistics is the process that plans, implements, controls the efficient, effective flow and storage of goods, services, and related information, from the point of origin to the point of consumption, in order to meet customer's requirements. Thus, logistics management deals with managing the flow of goods in the form of raw materials, semi finished products, or finished products from suppliers to a business and then, in the same or changed form, through its facilities, on to customers. The cost of activities in logistics can be as high as 30% of the total cost for an organization. Changes in demand, cost structures, technology (information technology, in particular), and improvement in worldwide distribution systems have drawn attention of the business world to transportation and logistics management. The logistics activities are very important for the firm as these help it in attaining higher level of competitive advantage. In the present-day globalized economy, one cannot overemphasize the need for an efficient logistics system to lower the costs and enhance customer service in an extremely competitive market.

The objective of a Logistics Management Program is to prepare the participants for management careers in the integrated process of transportation, distribution, warehousing, materials management, and purchasing. A certificate program in this area is aimed at assisting practitioners, involved in the operations and marketing activities of any manufacturing or service firm, to develop expertise in various logistics activities in relatively shorter time period.

The certificate program will require students to take 4 courses equivalent to 12 credit hours. Thus, a student should be able to complete all courses in two consecutive semesters taking two courses in each semester.

Three of these will be required courses with the remaining one being an elective course. Each course will include topics dealing with supply chain and e-business.

CURRICULUM

1. Required Courses

A student will have to take the following three required courses.

1. Logistics Management
2. Transportation Management and Planning
3. Warehousing and Distribution Planning

2. Elective Courses

A student has to choose one of the following courses.

1. International Marketing
2. Materials Management

COURSE DESCRIPTION

1. DSC 475 - Logistics Management

This course is designed to provide an overview of the fundamentals of logistics and supply chain management, its scope, and functions. It will discuss an integrated systems approach to the logistics activities in the management of traffic, transportation, inventory, warehousing, packaging, order processing, and material handling. It will also discuss the necessity and design of a logistics information system.

2. DSC 477 - Transportation Management and Planning (New)

This course will discuss principles and practices of both domestic and international transportation systems including major forms of

transport, carrier responsibilities, carrier selection, freight classifications, tariffs, rates, rules, regulations, and public policy. This will also introduce the topics of fleet management and scheduling.

3. DSC 482 - Warehousing and Distribution Planning (New)

This course is designed to focus on warehouse management and physical distribution operations. It will include discussions on physical inventory management, use of bar codes, personnel planning, material handling, and use of hardware and software in warehouse management systems.

4. DSC 470 - Materials Management

This course is designed to discuss concepts, organization, and implementation of materials management. It will deal with the coordinating function responsible for planning and controlling of material flow in supply-production-distribution systems. Different aspects of purchasing activities will be discussed. Various problems of inventory management will be discussed and elementary analytical models will be used to analyze and schedule system activities.

5. MKG 416 - International Marketing

This course focuses on analysis of marketing principles relating to international marketing organizations, marketing channels, channels of distribution, selling, and pricing.