Course Description

Master's Degree in Supply Chain Management and Logistics Technology

33774	**Research Methodology**	**Credit Hours: 3**
	This course aims to equip the students with the skills in conducting scientific research through introducing them to scientific research methods and providing the basic skills in writing scientific research. Which includes defining the problem of study and its variables, the research significance and objectives, the research model and its variables based on literature review, how to define the population and sample of the study, data collection and hypotheses writing and testing methods in addition to their analysis and interpretation using statistical methods, writing the conclusions and recommendations and linking them to the literature review, and introducing the students to various documentation methods.	
33711	**Operations Management**	**Credit Hours: 3**
	This course is designed to provide a solid understanding of the role of operations in any business organization. It outlines a broad introduction to the field of operations in a practical manner. Topics and practices include an introduction to operations management, the integration of the operations function and other key functions, the role of operations management in creating, enhancing and sustaining competitiveness, and the design and management of operations. As well as how to apply quantitative methods, analytical skills and problem-solving tools in operations management.	
33712	**Supply Chain Management Analysis**	**Credit Hours: 3**
	This course provides insight into the role of Supply Chain Management Analysis (SCMA) in linking the functions and business entities responsible for the exchange of goods, services and information to complete the business transaction from supplier's supplier to customer's customer. The course focuses on managing the flow of materials, goods, services, information and cash via the processes, technologies, and facilities that link primary supplier through to ultimate customers. Attention is given to such managerial concepts as forecasting, production planning, materials planning, purchasing, production, transportation, inventory management, warehousing, packaging, materials handling and customer service.	
33713	**Supply Chain Innovation**	**Credit Hours: 3**
	This course outlines key topics of supply chain technology and innovation. Thereby, the course presents six general types of information management systems with a particular emphasis on relevant supply chain software and applications. Topics discussed include global positioning systems, electronic data interchange, application-specific software, and enterprise resource planning systems. The course also examines the Internet's influence on the supply chains' operation and practices in terms of four issues: online retailing, cloud computing, electronic procurement, and the Internet of things.	

33721	**Capital Budgeting and Financing**	**Credit Hours: 3**
	The aim of the capital budgeting and finance course is to integrate traditional, contemporary, and technological accounting, finance, and capital budgeting approaches to support management decision-making processes. The course provides the students with the knowledge to integrate the financial decision-making in the daily operations and create successful future financial plans.	
33722	**International transport**	**Credit Hours: 3**
	This course introduces students to the basic transport and logistical requirements of import and export operations, including cross-border, sea freight, and airfreight and packaging procedures. It highlights the main operational differences between domestic and international trade, allowing participants to better apprehend their operational and managerial performance in terms of trade logistics.	
33723	**Supply Chain Sustainability**	**Credit Hours: 3**
	The aim of the sustainability in supply chain course is to integrate business life cycles in the innovation of customized new sustainable business models in the design of supply chain. Students will learn how to design and use Key Performance Indicators (KPIs) in the optimization of supply chain operations and making managerial decisions based on these KPIs to extend the business lifespan and its related projects.	
33714	**Food Supply Chain**	**Credit Hours: 3**
	This course will discuss the necessary components to the food supply chain management program, including current FSMA requirements, initial supplier assessments and approval programs, review of supplier food safety programs, corrective and preventive actions, change control, raw material inspections, record keeping and training.	
33715	**Humanitarian logistics and Refugee Support Course**	**Credit Hours: 3**
	This course provides the students with the necessary knowledge and the fundamental concepts of disaster management and humanitarian logistics. Logistics is one of the most critical components to successful humanitarian assistance, characterized by the efficient and effective delivery of the right assistance to the right beneficiaries at the right time. This module will prepare students for roles ranging from planning, managing, implementing and controlling the flow and storage of goods, material, cost and information along the entire emergency supply chain for the purpose of relief and alleviating the suffering of people in places with disasters.	

33716	**Maritime Economics and Business**	**Credit Hours: 3**
	The course enables students to understand the basic definitions of economics and maritime economics. Understand the distinction between the micro economic theory of shipping and macroeconomic factors affecting international trade and shipping and the differences between them. Thoroughly understand factors of production, utility and price, opportunity cost. Thoroughly understand price mechanism and the relationship between demand, price, and quantity. Be aware of competitive models and demand factors. The course enables students to identify and critically assess factors which determine business opportunities in international shipping	
33717	**Air Freight Management Course**	**Credit Hours: 3**
	This course covers a wide range of topics such as management and organization of the airfreight industry, economic and market characteristics, airports and aircraft, marketing and pricing Strategies, forecasting, cargo handling and terminal management, which will give the students a holistic picture of the air transport industry. Both management and operational issues of air transport will be covered. The subjects of air transport will focus on the movement of freight of both domestic and global markets. Further, this course will also introduce the students to policies and regulations that govern the air transport industry.	
33724	**Project Management**	**Credit Hours: 3**
	The aim of the project management course is to present students with the advanced project management knowledge that will support project managers to manage their resources, time schedules, risks, and scope to produce a desired outcomes. Students will learn different managerial and project management techniques to gain the support of the stakeholders. In addition, the course will review the causes of project failures and how to mitigate the failure risks using project management techniques. The course includes technological tools using project management software that will support the decision-making processes.	
33725	**Advanced Topics in Supply Chain Management**	**Credit Hours: 3**
	This course is an advanced course in the field of supply chain management, which presents current and future views, trends, and directions of supply chain management within the global context. Therefore, this course highlights advanced and contemporary topics in the field of supply chain management, including sustainability, circular economy, reverse logistics, blockchains and other selected topics (to be assigned by the Department). Thereby, this course familiarizes students with a wide array of current, trending and advanced topics.	
33730	**Capstone Project**	**Credit Hours: 3**
	The purpose of this course is to provide students with an experience that allows them to apply the integrative knowledge learned in the Master of Supply Chain Management and Logistics Technology program. The Capstone Project course aims to bridge theory and practice to have an impact on the professional life of students.	