



German Jordanian University

Business School

Department of Logistics

Bachelor of Science in Logistics

Dual Study Track

Study Plan 2023

I. Program Objectives

The logistics program emphasizes the application of technologies and tools in the short term, and the ability to discover, acquire, and adapt new knowledge and skills in the long term, such that our graduates are prepared to:

1. Define, analyze, and solve logistics problems in companies and organizations.
2. Discover, understand, and incorporate practical qualitative and quantitative techniques and methods to solve the problems.
3. Lead, manage, design, and develop business transitions towards excellence.
4. Function in culturally diverse teams where creative ideas are generated, and team cohesion becomes a successful business factor.

II. Learning Outcomes

The logistics program provides bachelor's students with an understanding of the fundamental logistics and supply chain success drivers and management concepts, methodologies, and technologies as demonstrated by:

1. An ability to apply knowledge effectively and efficiently manage logistics activities
2. An ability to design and conduct what-if scenarios for improvement
3. An ability to design an integrated logistics system
4. An ability to function in culturally diverse working environments
5. An ability to identify problems' root causes, formulate solutions, and implement them properly
6. An understanding of the complexity of supply chain structures and market dynamics
7. An ability to think and plan strategically, tactically, and operationally
8. An ability to use emerging technologies for streamlining material, cash, and information flows

Course Delivery Methods

Courses are in one of the following three methods:

- **Face-to-Face (F2F) Method**

Courses that are taught through face-to-face learning and are delivered at the university campus.

- **Blended (BLD) Method**

Courses in which teaching consists of face-to-face learning and asynchronous E-learning. The face-to-face learning takes place at the university campus. Asynchronous E-learning takes place through activities, tasks, educational duties, and assignments through the virtual E-learning platforms (Moodle and MyGJU) without direct meetings with course instructors.

- **Online (OL) Method**

Courses in which teaching consists of synchronous E-learning and asynchronous E-learning. The synchronous E-learning takes place through interactive virtual meetings between instructors and students directly through the virtual E-learning platform (MS Teams). The asynchronous E-learning takes place through activities, tasks, educational duties, and assignments through the virtual E-learning platforms (Moodle and MyGJU) without direct meetings with course instructors.

III. Admission Requirements

To apply for admission, the following minimum requirements must be met:

- Minimum of 75% in the Secondary School Certificate (Tawjihi).
- A high motivation is needed to fulfill the needs and demands at the university and the company as well.
- Good English skills are highly recommended.
- Students must register for all prerequisites named by the Academic Coordinator.

Placement Tests

Applicants must sit for placement tests in the Arabic Language, the English Language, and Mathematics to determine whether the applicant may be required to take remedial courses in the mentioned subjects. Depending on or the applicant scores in the placement tests, some of the following 3-credit-hour remedial courses are required:

Course ID	Course Name	Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
				Lect.	Prac.		
ARB0099	Elementary Arabic	3	3	3	0	OL	Placement test
ENGL0098	Elementary English	3	3	3	0	F2F	Placement test
ENGL0099	Intermediate English	3	3	3	0	F2F	ENGL0098
MATH0099	Pre-Math	3	3	3	0	OL	Placement test
Total		12	12	12	0		

- Remedial courses are to be completed and passed within the first year of enrollment.
- The passing grade for remedial courses is 60%.
- ECTS (B.Sc.): is the European Credit Transfer and Accumulation, One ECTS is equivalent to 30 actual workload hours.

IV. Degree Requirements

The requirements to obtain a B.Sc. degree in Logistics Sciences are the following:

- Out of the Program requirement, 12 credit hours are to be taken at a partner university in Germany.
- Out of the Program requirement, 12 credit hours (20 weeks) of practical internship are to be taken at one of the German Companies.
- Students must complete 160 hours of practical training in approved industries in Jordan.

V. Framework for B.Sc. Degree (Credit hours)

Classification	Credit Hours			ECTS		
	Compulsory	Elective	Total	Compulsory	Elective	Total
University Requirements	21	6	27	31	6	37
School Requirements	24	0	24	37	0	37
Program Requirements	82	12	94	148	18	166
Total	127	18	145	216	24	240

Course Delivery Method	Credit Hours	Percentage
Online Courses	15	10%
Blended Courses	63	43%
Face-to-Face Courses	67	47%
Total	145	100%

1. University Requirements: (27 credit hours)

1.1. Compulsory: (21 credit hours)

Course ID	Course Name		Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
					Lect.	Prac.		
ARB100	Arabic		3	3	3	0	OL	ARB0099
ENGL1001	Upper-Intermediate English		3	3	3	0	F2F	ENGL0099
ENGL1002	Advanced English		3	3	3	0	F2F	ENGL1001
GERL101B1	German I B1-Track		3	6	9	0	F2F	-
GERL102B1	German II	B1-Track	3	6	9	0	F2F	GERL101B1
GERL102B2		B2-Track						
MILS100	Military Science		3	2	3	0	OL	-
NE101	National Education		3	2	3	0	OL	-
NEE101	National Education in English							
Total			21	25	33	0		

1.2. Elective: (6 credit hours) (Two courses out of the following)

Course ID	Course Name	Credit Hours	ECTS	Contact Hours	Type	Prerequisites / Corequisites
				Prac.		
DS1001	Dual Study Practical I	3	3	12 weeks	F2F	-
DS2001	Dual Study Practical II	3	3	12 weeks	F2F	DS1001
DS3001	Dual Study Practical III	0	6	12 weeks	F2F	DS2001
Total		6	12			

2. School Requirements: (24 credit hours)

Course ID	Course Name		Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
					Lect.	Prac.		
GERL201B1	German III	B1-Track	3	4	6	0	F2F	GERL102B1 or GERL102B2
GERL201B2		B2-Track						GERL102B2
GERL202B1	German IV	B1-Track	3	6	9	0	F2F	GERL201B1 or GERL201B2
GERL202B2		B2-Track						GERL201B2
ACC1001	Principle of Accounting I		3	4.5	3	0	F2F	-
ACC2501	Fundamentals of Finance		3	4.5	3	0	BLD	ACC1001 ENGL0099
LOGS1001	Introduction to Logistics		3	4.5	3	0	F2F	-
MGT1001	Principles of Management		3	4.5	3	0	BLD	-
MGT1202	Business Statistics		3	4.5	3	0	F2F	-
MGT2103	Research Methods forBusiness		3	4.5	3	0	BLD	MGT1202 ENGL0099 ARB0099
Total			24	37	33	0		

3. Program Requirements (94 credit hours)

3.1. Program Requirements (Compulsory): (82 credit hours)

Course ID	Course Name		Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
					Lect.	Lab/ Prac.		
GERL301B1	German V	B1-Track	3	6	9	0	F2F	GERL202B1 or GERL202B2
GERL301B2		B2-Track						GERL202B2
GERL302B1	German VI	B1-Track	3	6	6	0	F2F	GERL301B1 or GERL301B2
GERL302B2		B2-Track						GERL301B2
ACC3302	Management Accounting		3	4.5	3	0	F2F	ACC1001
LOGS1102	Operations Research in Logistics Management		3	4.5	3	0	F2F	MGT1202
LOGS1201-DS	Introduction to Supply Chain Management		3	4.5	3	0	F2F	LOGS1001
LOGS2103	Operations Management		3	4.5	3	0	F2F	LOGS1001 LOGS1102 ENGL0099 ARB0099
LOGS2104	Transportation and Distribution Management		3	4.5	3	0	BLD	LOGS1201 ENGL0099 ARB0099
LOGS2105	Import-Export Management		3	4.5	3	0	BLD	LOGS2104 ENGL0099 ARB0099
LOGS2203-DS	Procurement Management		3	4.5	3	0	BLD	LOGS1201-DS ENGL0099 ARB0099
LOGS3105	Inventory Management		3	4.5	3	0	F2F	LOGS2103
LOGS3106	Warehouse Management		3	4.5	3	0	BLD	LOGS3105
LOGS3203	Supplier-Customer Relationships Management		3	4.5	3	0	BLD	LOGS2203-DS
LOGS3204	Logistics Network Design		3	4.5	3	0	BLD	LOGS2104
LOGS3401-DS	Green and Reverse Logistics		3	4.5	3	0	BLD	LOGS2104 LOGS2203-DS
LOGS3901	Field Training		0	6	0	160 Hrs	F2F	D. Approval
LOGS4107	Retail Logistics		3	4.5	3	0	F2F	LOGS3204
LOGS4303	Logistics Enterprise Resource Planning Modules		3	4.5	3	0	BLD	CS115 CS1150 LOGS3105
LOGS4406	Humanitarian Logistics		3	4.5	3	0	F2F	LOGS3204
LOGS4999	International Internship		12	30	-	20 weeks	BLD	BSC001
LOGS3900	Bachelor's Thesis		3	8.5	-	3	BLD	MGT2103 80 CHs
CS115	Computing Fundamentals for Business & Logistics		3	3	3	0	F2F	-
CS1150	Computing Fundamentals for Business & Logistics (Lab)		1	3	1	0	F2F	CS115 ^{co}

F2F: Face-to-face

BLD: Blended

OL: Online

co: Corequisite

MGT1204	Fundamentals of Marketing	3	4.5	3	0	F2F	MGT1001
MGT1206	Fundamentals of Microeconomics	3	4.5	3	0	F2F	-
MGT2101	Organizational Behavior	3	4.5	3	0	BLD	MGT1001 ENGL0099 ARB0099
MGT4108	Quality Management	3	4.5	3	0	BLD	LOGS2103
Total		82	148	76	15		

3.2. Program Requirements (Electives^b): (12 credit hours)

A minimum of 12 credit hours of coursework are required. This list is open for modifications based on school council decisions.

Course ID	Course Name	Credit Hours	ECTS	Contact Hours		Type	Prerequisites
				Lect.	Prac.		
LOGS4901	Business Elective I	1	2	1	0	B2D	BSC001
LOGS4902	Business Elective II	2	3	2	0	BLD	BSC001
LOGS4903	Business Elective III	3	4.5	3	0	BLD	BSC001
LOGS4904	Business Elective IV	3	4.5	3	0	BLD	BSC001
LOGS4905	Business Elective V	3	4.5	3	0	BLD	BSC001
LOGS4906	Business Elective VI	3	4.5	3	0	BLD	BSC001
LOGS4907	Special Topics in Logistics I	1	2	1	0	BLD	BSC001
LOGS4908	Special Topics in Logistics II	2	3	2	0	BLD	BSC001
LOGS4909	Special Topics in Logistics III	3	4.5	3	0	BLD	BSC001
LOGS4800	Military Logistics	3	4.5	3	0	BLD	BSC001
LOGS4801	Logistics service quality	3	4.5	3	0	BLD	BSC001
LOGS4802	Advanced operations research models in logistics	3	4.5	3	0	BLD	BSC001
LOGS4803	Maritime logistics	3	4.5	3	0	BLD	BSC001
LOGS4804	Supply chain management integration	3	4.5	3	0	BLD	BSC001
ACC4305	Accounting Ethics and Corporate Governance	3	4.5	3	0	BLD	BSC001
ACC4505	Islamic Finance and Accounting	3	4.5	3	0	BLD	BSC001
ACC4104	Advanced Accounting	3	4.5	3	0	BLD	BSC001
ACC4503	Investment Analysis and Portfolio Management	3	4.5	3	0	BLD	BSC001
ACC4304	Auditing II and Forensic Accounting	3	4.5	3	0	BLD	BSC001
LOGS4702	Contemporary Issues in Logistics	3	4.5	3	0	F2F	BSC001
MGT4102	Corporate Strategies and Policies	3	4.5	3	0	F2F	BSC001
MGT4104	International Business and Globalization	3	4.5	3	0	F2F	BSC001
MGT4106	Organizational Development & Change	3	4.5	3	0	F2F	BSC001
Total		12	18	12	0		

b: All elective courses are taken at a partner university in Germany

Study Plan^c Guide for a B.Sc. Degree in Logistics Sciences

First Year							
First Semester							
Course ID	Course Name	Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
				Lect.	Prac.		
ARB100	Arabic	3	3	3	0	OL	ARB0099
ENGL1001	Upper-Intermediate English	3	3	3	0	F2F	ENGL0099
GERL101B1	German I B1-Track	3	6	9	0	F2F	-
LOGS1001	Introduction to Logistics	3	4.5	3	0	F2F	-
MGT1001	Principles of Management	3	4.5	3	0	BLD	-
MGT1206	Fundamentals of Microeconomics	3	4.5	3	0	F2F	-
MGT1202	Business Statistics	3	4.5	3	0	F2F	-
Total		21	30	27	0		

First Year								
Second Semester								
Course ID	Course Name		Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
					Lect.	Prac.		
ENGL1002	Advanced English		3	3	3	0	F2F	ENGL1001
GERL102B1	German II	B1-Track	3	6	9	0	F2F	GERL101B1
GERL102B2		B2-Track						
MGT2103	Research Methods forBusiness		3	4.5	3	0	BLD	MGT1202 ENGL0099 ARB0099
ACC1001	Principle of Accounting I		3	4.5	3	0	F2F	-
LOGS1201	Introduction to Supply Chain Management		3	4.5	3	0	F2F	LOGS1001
LOGS1102	Operations Research in Logistics Management		3	4.5	3	0	F2F	MGT1202
MILS100	Military Science		3	3	3	0	OL	-
Total			21	30	27	0		

First Year							
Summer Semester							
Course ID	Course Name	Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
				Lect.	Prac.		
LOGS1201-DS	Introduction to Supply Chain Management	3	4.5	3	0	BLD	LOGS1001
DS1001	Dual Study Practical I	3	3	0	12 weeks	F2F	-
Total		6	7.5	3	12 week		

Second Year								
First Semester								
Course ID	Course Name		Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
					Lect.	Prac.		
GERL201B1	German III	B1-Track	3	4	6	0	F2F	GERL102B1 or GERL102B2
GERL201B2		B2-Track						GERL102B2
LOGS2103	Operations Management		3	4.5	3	0	F2F	LOGS1001 LOGS1102
CS115	Computing Fundamentals for Business & Logistics		3	3	3	0	F2F	-
CS1150	Computing Fundamentals for Business & Logistics (Lab)		1	3	1	0	F2F	CS115 ^{co}
LOGS2104	Transportation and Distribution Management		3	4.5	3	0	BLD	LOGS1201 ENGL0099 ARB0099
ACC2501	Fundamentals of Finance		3	4.5	3	0	BLD	ACC1001 ENGL0099 ARB0099
Total			16	23.5	19	0		

Second Year								
Second Semester								
Course ID	Course Name		Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
					Lect.	Prac.		
GERL202B1	German IV	B1-Track	3	6	9	0	F2F	GERL201B1 or GERL201B2
GERL202B2		B2-Track						GERL201B2
LOGS2105	Import-Export Management		3	4.5	3	0	BLD	LOGS2104 ENGL0099 ARB0099
LOGS3105	Inventory Management		3	4.5	3	0	F2F	LOGS2103
NE101	National Education		3	2	3	0	OL	-
NEE101	National Education in English							
MGT1204	Fundamentals of Marketing		3	4.5	3	0	F2F	MGT1001
Total			15	21.5	21	0		

Second Year							
Summer Semester							
Course ID	Course Name	Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
				Lect.	Prac.		
LOGS2203-DS	Procurement Management	3	4.5	3	0	BLD	LOGS1201-DS ENGL0099 ARB0099
DS2001	Dual Study Practical II	3	3	0	12 weeks	F2F	DS1001
Total		6	7.5	3	12 weeks		

F2F: Face-to-face

BLD: Blended

OL: Online

co: Corequisite

Third Year								
First Semester								
Course ID	Course Name		Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
					Lect.	Prac.		
GERL301B1	German V	B1-Track	3	6	9	0	F2F	GERL202B1 or GERL202B2
GERL301B2		B2-Track						GERL202B2
LOGS3106	Warehouse Management		3	4.5	3	0	BLD	LOGS3105
LOGS3203	Supplier-Customer Relationships Management		3	4.5	3	0	BLD	LOGS2203-DS
LOGS3204	Logistics Network Design		3	4.5	3	0	BLD	LOGS2104
LOGS4303	Logistics Enterprise Resource Planning Modules		3	4.5	3	0	BLD	CS115 CS1150 LOGS3105
MGT2101	Organizational Behavior		3	4.5	3	0	BLD	MGT1001 ENGL0099 ARB0099
Total			18	28.5	24	0		

Third Year								
Second Semester								
Course ID	Course Name		Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
					Lect.	Prac.		
GERL302B1	German VI	B1-Track	3	6	6	0	F2F	GERL301B1 or GERL301B2
GERL302B2		B2-Track						GERL301B2
LOGS4107	Retail Logistics		3	4.5	3	0	F2F	LOGS3204
LOGS3900	Bachelor’s Thesis		3	8.5	-	3	BLD	MGT2103 80 CHs
MGT4108	Quality Management		3	4.5	3	0	BLD	LOGS2103
ACC3302	Management Accounting		3	4.5	3	0	F2F	ACC1001
LOGS4406	Humanitarian Logistics		3	4.5	3	0	F2F	LOGS3204
Total			15	24	18	0		

Third Year							
Summer Semester							
Course ID	Course Name	Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
				Lect.	Prac.		
LOGS3401-DS	Green and Reverse Logistics	3	4.5	-	3	BLD	LOGS2104 LOGS2203-DS
DS3001	Dual Study Practical III	0	6	0	12 weeks	F2F	DS2001
Total		3	14.5	0	12 week		

Fourth Year							
First Semester							
Course ID	Course Name	Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
				Lect.	Prac.		
LOGS4903	Business Elective III	3	4.5	3	0	BLD	BSC001
LOGS4904	Business Elective IV	3	4.5	3	0	BLD	BSC001
LOGS4905	Business Elective V	3	4.5	3	0	BLD	BSC001
LOGS4906	Business Elective VI	3	4.5	3	0	BLD	BSC001
Total		12	18	12	0		

Fourth Year							
Second Semester							
Course ID	Course Name	Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
				Lect.	Prac.		
LOGS4999	International Internship	12	30	0	20 Weeks	BLD	BSC001
Total		12	30	0	20		

^c The following study plan guide does not take into account possible remedial courses.

German year prerequisites (Five out of the following must be passed)

- LOGS2203-DS Procurement management
- LOGS2104 Transportation and distribution management
- LOGS2105 import and export management
- LOGS3204 Logistic network design
- LOGS3106 Warehouse management
- LOGS3105 Inventory management
- LOGS3401-DS Green and reverse logistics
- LOGS4107 Retail logistics

^d Courses attended and/or passed during International Internship are not transferable

VI. Compulsory Courses Offered by the Logistic Sciences Department

LOGS1001 Introduction to Logistics	3 Cr Hr	4.5 ECTS
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Business logistics considers the two-directional flow and storage of products and information; into, within, and out of the organization. The logistics system consists of three sub-systems: inbound, internal, and outbound logistics. As the first module in logistics, LOGS1001 starts with defining logistics and determining the scope of logistics management as a part of supply chain management. The importance of logistics in the micro- and macro-economic levels, the systems and total cost approaches to logistics, logistical relationships within the firm, and the main logistics activities are also covered in the first part of this module. Thereafter, more detailed examination of logistics activities is considered including procurement; demand management, order management, and customer service; inventory management; warehousing management; packaging and material handling; and transportation management. Afterwards, the organizational and managerial issues related to logistics are considered including organizational structure and design, productivity, quality, risk, sustainability, and complexity.

Prerequisites: none

LOGS1102 Operations Research in Logistics Management	3 Cr Hr	4.5 ECTS
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Operations Research (OR) considers scientific approaches to conduct and coordinate the operations within an organization, and to facilitate managerial decisions making and problem solving. This scientific approach includes activities such as observing and defining the problem, developing a model to solve the problem, acquiring relevant data, and implementing the model and developing the solution. This approach contributes significantly to optimizing the logistics system and integrating its components such as transportation, inventory, and material flow. This module starts introducing OR, clarifying its importance for logistics, and reviewing basic mathematical techniques required for smooth proceeding to OR applications. Afterward, model formulation and solving using linear programming methods will be discussed. The allocation of items from origins to destinations with minimum resources will be addressed using transportation, transshipment, and assignment models. Then, the decision making with, and without probabilities will be considered. Finally, time series and regression will be discussed as tools for forecasting demand.

Prerequisites: MGT1202

LOGS1201 Introduction to Supply Chain Management	3 Cr Hr	4.5 ECTS
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This module explains how to design, plan and execute, and continuously improve supply chains. More specifically, the needed supply chain capabilities to cope with different business strategies are introduced as well as their impact on supply chain operations. Also, the role of both demand and supply management in supply chains will be explained. Moreover, it is shown how to identify supply risks to mitigate them, and how performance can be improved to sustain a competitive position in the marketplace, meanwhile satisfying customers.

Prerequisites: LOGS1001

LOGS2103 Operations Management	3 Cr Hr	4.5 ECTS
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This module covers the concepts, processes, and managerial skills needed in producing goods and/ or services. The module focuses on decisions that convert broad policy directives into specific actions. It also deals with monitoring and evaluating of operations activities to see that they conform to established plans. The major techniques of quantitative analysis are applied to a variety of managerial decision problems. Emphasis is placed on developing formal analytic skills, especially in structured problem solving and on recognizing the strengths, limitations, and usefulness of management science techniques.

Prerequisites: LOGS1001, LOGS1102, ENGL0099, ARB0099

LOGS2104 Transportation and Distribution Management	3 Cr Hr	4.5 ECTS
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The course is prepared to introduce the student into the major issues in the management of transportation. The course will examine the background and history of transportation, emphasizing the fundamental role and importance the industry plays in companies, society, and the environment in which transportation service is provided. The course will also provide an overview of carrier operations, management, technology, and the strategic principles for the successful management of different modes of transportation. The course also defines the concept of logistics and describes the operational and strategic responsibilities of logistics and the role of logistics in managing the supply chain.

Prerequisites: LOGS1201, ENGL0099, ARB0099

LOGS2105 Import-Export Management	3 Cr Hr	4.5 ECTS
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This course covers the concepts, processes, and managerial skills needed in understanding the international trade of goods or services. The course focuses on process, documents and policies that affect exports and imports in the world.

Prerequisites: LOGS2104, ENGL0099, ARB0099

LOGS2203-DS Procurement Management	3 Cr Hr	4.5 ECTS
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Purchasing management is a significant component for any business. Companies recognize the significant cost savings that can arise from effective purchasing decisions and likewise how poor purchasing strategies may result in disaster. So, this module focuses on providing a solid managerial perspective of the purchasing function as a part of the logistical activities and as a part of the supply chain management. It presents the most current and complete coverage of today's purchasing activities and provides numerous real-world cases, insights and knowledge into the strategies, processes, and practices of the purchasing function.

This module aims to develop an understanding of the important role of purchasing in the organization and the relationship between the purchasing department and other departments in the organization. Furthermore, this module introduces the basic concepts, techniques, methods and applications of procurement and supplier management, including supplier selection, sourcing decisions, and managing supplier performance. It explains purchasing strategies and policies as well as activities of the purchasing manager. Moreover, this module discusses the impact of purchasing on competitive success, profitability and other measures of organizational performance and defines what specialized purchasing skills and techniques are required.

Prerequisites: LOGS1201, ENGL0099, ARB0099

LOGS3105 Inventory Management	3 Cr Hr	4.5 ECTS
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Inventory management deals with planning, organizing, and controlling the accumulation of raw materials, work-in-process, and finished products stocks. The introductory part of the module discusses the movement of inventories through the supply chain, reasons for holding inventory, importance of inventory, role of inventory, and the costs associated with inventory. The second part of this module focuses on independent demand inventory methods, starting with the classical EOQ model and then considering the cases of known demand and uncertain demand. The third part of the module deals with the information required to support inventory planning is considered, including: information from inventory management information system, demand forecasts, and planned operations. The last part describes the dependent demand approach focusing mainly on material requirements planning and just-in-time operations.

Prerequisites: LOGS2103

LOGS3106 Warehouse Management	3 Cr Hr	4.5 ECTS
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This course focuses on the principles and practices of effective warehouse management, including warehouse design, layout optimization, and operations management. Topics include inventory storage methods, material handling systems, warehouse technology integration (e.g., WMS and RFID), safety standards, and cost management. Students will also explore strategies to improve warehouse efficiency, sustainability practices, and the role of warehouses in the overall supply chain. Case studies and practical

scenarios are included to enhance problem-solving skills and decision-making in warehouse operations.

Prerequisites: LOGS3105

LOGS3203 Supplier-Customer Relationships Management	3 Cr Hr	4.5 ECTS
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In today's extremely competitive environment, one of the main factors that determine the success or failure of a business is understanding the customers' needs and services. This module discloses different aspects of this customer-focused strategy, such as Customer Relationship Management (CRM) and its definitions, goals, perspectives, as well as the integration of Supply Chain Management (SCM) and CRM. On the other hand, the continual needs of cutting costs force companies to improve their supply chain and leverage their supply base, which enhances the need for long term buyer-seller relationships and for adopting the concept of Supplier Relationship Management (SRM). This module introduces the concept of CRM & SRM, explains their benefits, how and why they can be used. Moreover, the module provides a strategic and structured approach to maximizing value from key and strategic customers and suppliers, and focus on the direct resources at the suppliers, that can make the biggest difference to the organization, and on the most valuable customers. Thus, this module offers a complete, clear and highly operational framework for CRM and SRM, which gives guidelines for establishing a successful strategy on both sides of the supply chain.

Prerequisites: LOGS2203-DS

LOGS3204 Logistics Network Design	3 Cr Hr	4.5 ECTS
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This module introduces students to the theory and practice of logistics systems design and operations. Students will be exposed to issues surrounding the location of distribution centers, optimal number of distribution, centralization and decentralization of logistics systems. The module also covers logistics hubs and network design, cross-docking, its types and design of cross-docking facilities, road demountable, benchmarking and performance measurement of logistics operations, logistics performance index and measurements of global logistics performance, sourcing models in logistics, the design and operations of dry ports, global trends in logistics, the design of humanitarian and sustainable networks.

Prerequisites: LOGS2104

LOGS3401-DS Green and Reverse Logistics	3 Cr Hr	4.5 ECTS
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This module introduces students to the theory and practice of logistics systems design and operations. Students will be exposed to issues surrounding the location of distribution centers, optimal number of distribution, centralization and decentralization of logistics systems. The module also covers logistics hubs and network design, cross-docking, its types and design of cross-docking facilities, road demountable, benchmarking and performance measurement of logistics operations, logistics performance index and measurements of global logistics performance, sourcing models in logistics, the design and operations of dry ports, global trends in logistics, the design of humanitarian and sustainable networks.

Prerequisites: LOGS2104, LOGS2203-DS

LOGS3901 Field Training	0 Cr Hr	6 ECTS
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The Field Training course provides students with practical, hands-on experience in logistics and supply chain management. Over 160 hours, students will work with approved local or regional companies to gain real-world exposure to the logistics sector. The training covers key areas such as transportation, warehousing, inventory management, procurement, and customer service. Students will have the opportunity to apply theoretical knowledge from their coursework to practical challenges, enhance their problem-solving and critical-thinking skills, and develop professional competencies. The training also helps students build industry networks and understand workplace dynamics, preparing them for future careers in logistics.

Prerequisites: Department Approval

LOGS4107 Retail Logistics	3 Cr Hr	4.5 ECTS
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Retail is an overly complex and dynamic sector which relies heavily on logistics operations to deliver goods and services to end users. This course introduces the students to basic concepts in retail business and how logistics can create value to retail businesses. It equips students with the required analytical skills to conceive real-world problems and solve them by using mathematical models. Also, the course links theory with practice through discussing case studies related to retail logistics. The final two sections of the course explain the role of logistics in two common sectors; food and apparel supply chains.

Prerequisites: LOGS3204

LOGS4303 Logistics Enterprise Resource Planning Modules	3 Cr Hr	4.5 ECTS
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Enterprise Resource Planning (ERP) systems use a centralized database to integrate business transactions along and between processes, leading to benefits such as efficient and error-free workflows plus accounting, management reporting and improved decision-making. This module will introduce the student to ERP systems and show how organizations use these systems to run their operations more efficiently and effectively. The module will examine typical ERP modules, such as: materials management (MM), supply chain management (SCM), customer relationship management (CRM), financials, projects, and human resource management (HRM).

Prerequisites: CS115, CS1150, LOGS3105

LOGS4406 Humanitarian Logistics	3 Cr Hr	4.5 ECTS
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Students get acquainted with 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.

Prerequisites: LOGS3204

LOGS3900-DS Bachelor's Thesis	3 Cr Hr	4.5 ECTS
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The Bachelor's thesis is carried out in the form of a research project within the department. The students put the competencies learned during the program into practice. The Bachelor's thesis is used to assess the student's initiative and their ability to plan, report and present a project. Students work independently on a Bachelor's thesis under the guidance of a supervisor. They are responsible for finding a project and supervisor.

Prerequisites: MGT2103, eligible students should have passed 80 CHs

LOGS4999 International Internship	12 Cr Hr	30 ECTS
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The International Internship is a mandatory component of the program, requiring students to spend one semester (approximately 20 weeks) of hands-on training at a German company. This immersive experience enables students to apply their academic knowledge to real-world challenges in logistics and supply chain management, while also gaining exposure to the German professional environment and work culture. During the internship, students engage in various logistics operations, such as transportation planning, supply chain coordination, inventory control, and process optimization. They also develop valuable intercultural skills and a global perspective on logistics practices, preparing them for future leadership roles in the industry.

Prerequisites: BSC001

VII. Elective Course Offered by Logistic Sciences Department

LOGS4901: Business Elective I

1 Cr Hr (1,0)

2 ECTS

The module is part of the international experience of the students in Germany and reflects the German dimension of the German Jordanian Universities. Specific contents vary upon the specific module selected and upon the host university's module handbook and academic policies. The module aims at equipping the students with intercultural, linguistic, and academic competencies in management and related fields. It further prepares the students to understand and interact in the academic and professional environment in Germany.

Prerequisite: BSC001

LOGS4902: Business Elective II

2 Cr Hr (2,0)

3 ECTS

The module is part of the international experience of the students in Germany and reflects the German dimension of the German Jordanian Universities. Specific contents vary upon the specific module selected and upon the host university's module handbook and academic policies. The module aims at equipping the students with intercultural, linguistic, and academic competencies in management and related fields. It further prepares the students to understand and interact in the academic and professional environment in Germany.

Prerequisite: BSC001

LOGS4903: Business Elective III

3 Cr Hr (3,0)

4.5 ECTS

The module is part of the international experience of the students in Germany and reflects the German dimension of the German Jordanian Universities. Specific contents vary upon the specific module selected and upon the host university's module handbook and academic policies. The module aims at equipping the students with intercultural, linguistic, and academic competencies in management and related fields. It further prepares the students to understand and interact in the academic and professional environment in Germany.

Prerequisite: BSC001

LOGS4904: Business Elective IV

3 Cr Hr (3,0)

4.5 ECTS

The module is part of the international experience of the students in Germany and reflects the German dimension of the German Jordanian Universities. Specific contents vary upon the specific module selected and upon the host university's module handbook and academic policies. The module aims at equipping the students with intercultural, linguistic, and academic competencies in management and related fields. It further prepares the students to understand and interact in the academic and professional environment in Germany.

Prerequisite: BSC001

LOGS4905: Business Elective V

3 Cr Hr (3,0)

4.5 ECTS

The module is part of the international experience of the students in Germany and reflects the German dimension of the German Jordanian Universities. Specific contents vary upon the specific module selected and upon the host university's module handbook and academic policies. The module aims at equipping the students with intercultural, linguistic, and academic competencies in management and related fields. It further prepares the students to understand and interact in the academic and professional environment in Germany.

Prerequisite: BSC001

LOGS4906: Business Elective VI	3 Cr Hr (3,0)	4.5 ECTS
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The module is part of the international experience of the students in Germany and reflects the German dimension of the German Jordanian Universities. Specific contents vary upon the specific module selected and upon the host university's module handbook and academic policies. The module aims at equipping the students with intercultural, linguistic, and academic competencies in management and related fields. It further prepares the students to understand and interact in the academic and professional environment in Germany.

Prerequisites: BSC001

LOGS4907: Special Topics in Logistics I	1 Cr Hr (3,0)	2 ECTS
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This course is designed to address emerging trends, advanced topics, and innovative practices in logistics and supply chain management. Delivered as a project-based course, it allows students to engage in independent or group projects focused on real-world logistics challenges. The course emphasizes practical application and critical thinking rather than traditional lectures, fostering student-led exploration under the guidance of a faculty supervisor. Students will identify a specific logistics-related problem, conduct in-depth research, develop solutions, and present their findings in a professional format. Topics vary based on industry developments and faculty expertise, ensuring the course remains current and relevant.

Prerequisites: BSC001

LOGS4907: Special Topics in Logistics II	2 Cr Hr (3,0)	3 ECTS
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This course is designed to address emerging trends, advanced topics, and innovative practices in logistics and supply chain management. Delivered as a project-based course, it allows students to engage in independent or group projects focused on real-world logistics challenges. The course emphasizes practical application and critical thinking rather than traditional lectures, fostering student-led exploration under the guidance of a faculty supervisor. Students will identify a specific logistics-related problem, conduct in-depth research, develop solutions, and present their findings in a professional format. Topics vary based on industry developments and faculty expertise, ensuring the course remains current and relevant.

Prerequisites: BSC001

LOGS4907: Special Topics in Logistics III	3 Cr Hr (3,0)	4.5 ECTS
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This course is designed to address emerging trends, advanced topics, and innovative practices in logistics and supply chain management. Delivered as a project-based course, it allows students to engage in independent or group projects focused on real-world logistics challenges. The course emphasizes practical application and critical thinking rather than traditional lectures, fostering student-led exploration under the guidance of a faculty supervisor. Students will identify a specific logistics-related problem, conduct in-depth research, develop solutions, and present their findings in a professional format. Topics vary based on industry developments and faculty expertise, ensuring the course remains current and relevant.

Prerequisites: BSC001

LOGS4702 Contemporary Issues in Logistics	3 Cr Hr	4.5 ECTS
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This module provides a practical, management perspective in different areas of logistics such as distribution, transportation, international logistics, key performance indicators, supply chain finance, technologies used in logistics and many other recent topics. The module is designed for students who have had little or no previous module work or professional experience in logistics. It explores the various modern logistics techniques and focuses on the importance of innovation in logistics management. Globalization and e-commerce among other new trends and their effects on logistics and supply chain systems are considered. The module starts with the new trends in logistics and supply chain management, then the role of information technology in logistics is considered. Thereafter, selected topics and contemporary issues in logistics and supply chain management are discussed with more focus on new literature published on these topics. Finally, the selected topics are linked to the local market settings and environment.

Prerequisites: BSC001

LOGS4800 - Military Logistics	3 Cr Hr	4.5 ECTS
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Is a master's level course designed to provide students with a comprehensive understanding of military logistics principles, strategies, and operations. The course offers an in-depth exploration of the unique challenges, complexities, and critical considerations involved in supporting military operations through efficient and effective logistics management. The course begins by examining the fundamental concepts and principles of military logistics, and the role it plays in sustaining military readiness and operational effectiveness. Students will gain insights into the distinct characteristics of military logistics, such as the need for rapid deployment, supply chain security, and contingency planning in volatile environments.

Prerequisites: BSC001

LOGS4801 - Logistics Service Quality	3 Cr Hr	4.5 ECTS
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This course is designed to provide students with an in-depth understanding of logistics service quality and its critical role in supply chain management. The course explores the multifaceted dimensions of logistics service quality, including its definition, measurement, management strategies, and impact on overall business performance.

Throughout the course, students will delve into various theoretical frameworks, practical tools, and industry best practices related to evaluating, improving, and sustaining logistics service quality across different stages of the supply chain. Special emphasis will be placed on the integration of technology, process optimization, and customer-centric approaches to enhance service quality while balancing cost considerations and operational efficiency.

Prerequisites: BSC001

LOGS4802 Advanced Operations Research Models in Logistics	3 Cr Hr	4.5 ECTS
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This course explores advanced operations research (OR) techniques and their applications in logistics and supply chain management. Students will learn to develop and apply complex mathematical models for optimizing logistics processes such as transportation, inventory management, and distribution networks. Key topics include nonlinear programming, stochastic models, dynamic programming, and simulation techniques. The course emphasizes the use of OR tools to solve real-world logistics problems, improve decision-making, and enhance operational efficiency.

Prerequisites: BSC001

LOGS4803: Maritime Logistics.	3 Cr Hr	4.5 ECTS
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The course focuses on the crucial role of maritime transport in the global logistics and supply chain networks. Students will explore the operational, regulatory, and strategic aspects of maritime logistics, including port management, shipping operations, and maritime safety and security. The course combines theoretical learning with practical case studies, industry analysis, and simulation exercises to provide a deep understanding of how maritime logistics functions as a critical component of international trade.

Prerequisites: BSC001

LOGS4804: Supply Chain Management Integration	3 Cr Hr	4.5 ECTS
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This course is designed to provide students with an understanding of advanced concepts in supply chain integration, focusing on strategies for synchronizing and optimizing the supply chain from suppliers to customers. The course covers the integration of information systems, relationship management, performance metrics, and strategic sourcing. Students will learn to apply these concepts through case studies, collaborative projects, and simulations to create seamless and efficient supply chains. Emphasis will be placed on the role of technology in enabling supply chain collaboration and the importance of sustainability and ethical considerations in global supply chains.

Prerequisites: BSC001

VIII. Course Offered by Other Departments

ACC1001 Principles of Accounting I	3 Cr Hr	4.5 ECTS
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This module covers the conceptual foundation of accounting, the accounting cycle for service and merchandising enterprises, the preparation of income statement and related information, the balance sheet of proprietorships and partnerships, the basics of accounting information systems, introduction to the conceptual framework for the preparation and presentation of financial statements as well as the valuation and reporting of selected items reported in the balance sheet; such as cash and inventories.

Prerequisites: None

ACC2501 Fundamentals of Finance	3 Cr Hr	4.5 ECTS
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This course is designed for business students, not just finance major. It begins with a general overview and then goes into more details on several concepts, financial instruments, and techniques used in financial decision-making. The course will also introduce students to real-life cases, which will aid them in their future careers. Furthermore, it will introduce students to basic financial concepts such as the time value of money, risk and return, and capital budgeting

Prerequisites: ACC1001, ENGL0099, ARB0099

ACC3302 Management Accounting	3 Cr Hr	4.5 ECTS
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The module covers the fundamentals of managerial accounting, covering practices and methods in support of planning, decision-making and control. The module introduces cost terms and the use of accounting information in planning and control decisions. The module presents managerial accounting tools such as cost-volume-profit analysis, comprehensive budgeting, relevant costs related to nonrecurring decisions, responsibility accounting, and performance evaluation. The module covers capital budgeting and concludes with a discussion of strategic management accounting techniques.

Prerequisites: ACC1001

MGT1001 Principles of Management	3 Cr Hr	4.5 ECTS
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The module is designed to equip students with the basic knowledge and skills in the field of management. The module consists of the main concepts of management and the management process. During this module; basic concepts of management will be illustrated. The module covers the following topics: The management process; History of management; External environment and organizational culture; Fundamentals of planning; Fundamentals of control; Fundamentals of organizing; Essentials of leadership.

Prerequisites: -

MGT1202 Business Statistics	3 Cr Hr	4.5 ECTS
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This is a module in the basic statistical concepts and methods common in business and economics applications. The module introduces the students to statistical methods of collection, analysis, and presentation of quantitative data. Emphasis will be on the use of both descriptive and inferential statistical techniques within the workplace. Topics covered include descriptive statistics, probability, discrete and continuous distributions, confidence intervals, hypothesis testing, regressions, and sampling. Acquired knowledge should help students to deal with applications from all functional areas of business.

Prerequisites: -

MGT2103 Research Methods for Business	3 Cr Hr	4.5 ECTS
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The primary purpose of this module is to provide a comprehensive introduction of research and to prepare students to critically read research. The module is introductory in the sense that the emphasis is on exposure to a variety of research methods and methodologies, rather than developing expertise in any one particular method. Besides, it is designed to acquaint students with a range of research methods available and the criteria for choosing among them. More specifically, Research Methodology educates students

about types of scientific quantitative and qualitative methods and its applications to research process in business discipline.

Prerequisites: MGT120, ENGL0099, ARB00992

MGT1204 Fundamentals of Marketing	3 Cr Hr	4.5 ECTS
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This module aims to equip students with an understanding of the role of marketing and the value of marketing management in achieving corporate success within an increasingly competitive, dynamic and turbulent environment. Focusing on the strategic importance of marketing, and its important role in the overall strategy, evaluating the different tools of marketing and the decisions a marketing manager is responsible for, and also investigating the role of the internet and electronic media in enhancing and expanding the efforts of marketing, never underestimating the role of social marketing and social responsibility as a frame for studying marketing.

Prerequisites: MGT1001

MGT1206 Fundamentals of Microeconomics	3 Cr Hr	4.5 ECTS
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The module deals with basic microeconomic concepts, theories, and methods. The module introduces the students to the field of microeconomics and to important issues such as the economic problem of scarcity and choice as well as consumers' and producers' behavior in input and output markets. It also addresses supply and demand elasticity; utility; production and costs as well as input and output markets. It then addresses the characteristics of different market structures such as perfect competition and monopoly.

Prerequisites: None

MGT2101 Organizational Behavior	3 Cr Hr	4.5 ECTS
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This is a compulsory module for both logistic sciences and management sciences programs. This is intended to equip students with the basics and theories of organizational behaviour. The course includes: What is organizational behavior? , Diversity in Organization, Attitudes and job satisfaction, Emotions and moods, Personality and values, Perception and individual decision making, Motivation concepts, Motivation: from concepts to application, Understanding work teams, and Leadership.

Prerequisites: MGT1001, ENGL0099, ARB0099

MGT4108 Quality Management	3 Cr Hr	4.5 ECTS
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Total Quality Management (TQM) help the students to learn to view quality from a variety of functional perspectives, gain a better understanding of the problems associated with improving quality, also quality tools utilized in service and international/environments. This module focuses on the essence, principles, and practices of total quality management (TQM). Some of the ideas and topics that are covered are: process improvement; process orientation; service quality; human resources; customer satisfaction programs; quality function deployment; process control and capability; role of inspection; economics of quality; productivity measurement; learning and organizational performance measures; and teachings of Deming, Juran, and Crosby.

Prerequisites: LOGS2103

CS115 Computing Fundamentals for Business and Logistics (Lab)	1 Cr Hr	3 ECTS
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This lab aims to enhance hands-on experience on four application software (MS Word, MS Excel, MS PowerPoint, and MS Access) and the practice creating basic C++ programs using variables, data types, arithmetic and logic expressions, input/output operations, selection structures, loop structures, arrays and authoring web pages using hypertext mark-up language (HTML) and cascading style sheets (CSS).

Prerequisites: 1150^{co}

CS1150 Computing Fundamentals for Business and Logistics	3 Cr Hr	4.5 ECTS
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The module introduces basic information technology skills and concepts including the internet and the web, electronic commerce, application software, system software, basics of computer hardware (system unit, input and output devices, secondary storage), communications and networks, privacy, security, computer ethics, information systems, systems analysis, and design. Moreover, the module introduces basic programming skills including creating web pages using hypertext mark-up language (HTML) and cascading style sheets (CSS), working with a database management system using the structured query language (SQL), and the basics of the C++ language, e.g., variables, data types, arithmetic and logic expressions, input/output operations, selection structures, loop structures, arrays.

Prerequisites: -

ACC4104 Advanced Accounting	3 Cr Hr (3,0)	4.5 ECTS
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This module covers the details of consolidation. It focuses exclusively on financial accounting. The main items to be covered are balance sheet consolidation after acquisition and further years onwards, consolidating income statements and dealing with inter-group transactions, foreign currency translation, and a specific focus on dealing with published accounting research.

Prerequisites: ACC2104

ACC4304 Audit II and Forensic Accounting	3 Cr Hr (3,0)	4.5 ECTS
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The module examines the principles and practices of external auditing. Topics covered auditing as a component of recurrent and strategic activities, risk assessment, internal control, systems evaluation, forensic accountability, and contemporary audit issues and challenges. The module also covers an introduction to forensic accounting and enables the student to differentiate between the various forensic accounting services.

Prerequisites: ACC3303

ACC4305 Accounting Ethics and Corporate Governance	3 Cr Hr (3,0)	4.5 ECTS
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The module starts with introducing and defining corporate governance, key theoretical models, and how the definition of corporate governance can be varied according to its objectives to the stakeholders that are intended to be served by corporate governance mechanisms and to the ownership structure prevails in different environments. Control vs. ownership is shown, how the separation between the control and ownership might impact different corporate governance mechanisms and how it might play a crucial role in addressing agency conflict from the classical agency theory point of view. Different ownership structures (concentrated, dispersed) and control mechanisms (weak, strong) are introduced, and it is shown how different combinations might be achieved in different environments, especially the combination of dispersed ownership and strong control and the mechanisms that violate one-share-one vote right to achieve such this combination. The definition of accounting ethics, code of professional conduct, and moral development are introduced.

Prerequisites: ACC3303

ACC4503 Investment Analysis and Portfolio Management	3 Cr Hr (3,0)	4.5 ECTS
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This module helps students understand the key concepts and principles of investment and portfolio management. This module blends portfolio theory with the type of practical issues that one will come across in a career as a professional investment manager. The topics addressed include the setting of investment and security analysis; instruments and valuation methods; portfolio theories; asset pricing models; and measurements of portfolio performance.

Prerequisites: ACC3502

ACC4505 Islamic Finance and Accounting	3 Cr Hr (3,0)	4.5 ECTS
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This module provides an insight into the key features of Islamic banking business from theoretical foundations to the development of Islamic banking practices and main types of Islamic banking products. In addition, the module examines the operational features of Islamic banks focusing on their performance and how they differ from conventional interest-based banks. The module also focuses on the accounting

and reporting for Islamic banks transactions.

Prerequisites: ACC3502

MGT4102: Corporate Strategies & Policies	Cr Hr (3.0)	ECTS (4.5)
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Why are some firms more successful than others? This is the fundamental question of strategy. This module analyzes the sources of competitive success among firms and develops knowledge and skills necessary to effectively analyze and formulate strategy, be it as a manager, a management consultant, or an investment banker. We will tackle the complexity of analyzing the business enterprise in this era of globalization and changing firm boundaries and of assessing strategy under increasing uncertainty.

Prerequisite: MGT3104,

MGT4104: International Business and Globalization	Cr Hr (3.0)	ECTS (4.5)
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This module will introduce students to the International Business Environments: political, legal, economic, institutional, and socio-cultural. As the global economy becomes closely integrated, the need for understanding its driving forces as well as its impacts on the domestic economy becomes critical. To help students prepare for this challenge, areas such as global manufacturing and managing value-adding chains, export and import strategies, international delivery modes, export financing issues, foreign direct investments and strategic alliances will be examined.

prerequisite: MGT2206, MGT3104,

MGT4106: Organizational Development and Change	Cr Hr (3.0)	ECTS (4.5)
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Organization Development (OD) is the process of planning and implementing interventions to create interpersonal, group, intergroup, or organization-wide change. This module presents the theoretical foundations of organization development as an applied behavioral science. Students will also be introduced to many types of interpersonal, intra-group, intergroup, and organizational interventions that are used to effect comprehensive and lasting changes.

prerequisite: MGT3104,

Courses offered by Other Schools

ARB0099: Elementary Arabic	0 Cr Hr (3,0)	0 ECTS
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This course aims to develop student's ability to read, comprehend, literary analyze, grammatically analyze, linguistically analyze, poetically analyze, and rhetorically analyze texts properly. The course also includes a selection of Arabic literature in poetry and prose representing different literary ages, in addition to several common forms of writing such as scientific article, news article, and others.

Prerequisites: -

ARB100: Arabic	3 Cr Hr (3,0)	3 ECTS
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This course aims to improve the student's competence in the various linguistic skills in terms of reading, comprehension, and taste. This is achieved through the study of selected texts with many implications that raise issues in spelling, grammar, composition, meaning, and inference, and the use of an old and modern thesaurus.

Prerequisites: ARB099

ENGL0098: Elementary English	1 Cr Hr (3,0)	3 ECTS
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Students will focus on English at an elementary level through the receptive skills of reading and listening and the productive skills of writing and speaking. English III is aimed at students who have achieved a grade of between 0 and 60 on the English Placement Test. This course is zero credit hours. This course enables students to contribute their own knowledge or experience in speaking activities, and use the language

correctly. The exposure to a wide variety of listening material with a variety of accents, including some non-native speakers of English improves their level. English III integrates the focus on individual sounds of word and sentence stress where students are encouraged to copy the rhythm of English. Pronunciation is also integrated into Grammar and Vocabulary activities.

Prerequisites: ENGL0099

ENGL0099: Intermediate English	1 Cr Hr (3,0)	3 ECTS
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Students will focus on English at an intermediate level through the receptive skills of reading and listening and the productive skills of writing and speaking. English IV is aimed at students who have successfully passed English III or achieved a grade of between 61-80 on the English Placement Test. This course is zero credit hours. Attendance: Students are required to attend regularly according to the regulations of GJU and should provide the instructor with official excuses in case they are absent for a long time. Participation and homework: Students are required to participate in the group discussion in class. Interaction is necessary as well as oral presentations will be given to measure how fluent students are and to improve their skill of speaking. Medium of communication: GJU email, face to face (on campus) and during office hours. Teaching method: Explaining, discussing and doing the exercises given to students.

Prerequisites: ENGL0098

ENGL1001: Upper Intermediate English	2 Cr Hr (3,0)	3 ECTS
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“Education is the ability to listen to almost anything without losing your temper or your self-confidence.” Robert Frost (1874 - 1963) English V is aimed at students who have achieved a passing grade in English IV or a grade between 81 and above on the English Placement Test. English V is equal to three credit hours. Students will focus on English at an upper intermediate level. Students will analyze and produce essays with an emphasis on argumentation and persuasion working both independently and cooperatively to gather, evaluate, and synthesize necessary information. Class activities include interactive lectures, small group and class discussions, informal debates, peer feedback, individual presentations, focused listening exercises and focused viewing exercises as well as assorted reading, writing, and grammar assignments. There will be some poetry analysis together with reading and understanding a short story and a drama using basic literary terms and concepts. Note: The process of argumentation enables us to clarify and develop our own responses to important issues, and a significant part of that process involves dialogue with both those who share our opinions and those who do not. In order to participate responsibly and effectively in meaningful dialogue, we must maintain an attitude characterized by openness, responsibility, rationality, and respect for all participants. Upon finishing this level, all students are eligible to receive an English language proficiency letter indicating their level according to the Common European Framework Reference for Languages (CEFR) varying between B1 and B2 according to the grade they get upon finishing this level..

Prerequisites: ENGL0099

ENGL 1002: Advanced English	2 Cr Hr (3,0)	3 ECTS
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English VI, is the last of the English levels at the German Jordanian University to arm graduates with the best command of the English language in its varied aspects: Reading, Writing, Speaking, Listening and Understanding. It is aimed at students who successfully pass English V and it is three credit hours. This level focuses on a higher level of enhancement of their language. Students can address any audience, through delivering a persuasive speech, making an informative presentation, or analyzing controversial News through News Analysis. The students' Thesis Statements are backed up with: mistake-free language, persuasive logic and verified statistics, numbers and facts to convince the audience with their points of view. Other tools are enhanced involving their language, including specific terminology, tone, intonation and body language to make them acquire the best outcome. Students can also address any topic in writing. With the language skills provided in this level, GJU graduates become more equipped with outstanding abilities and get better chances in the work market, in addition to their knowledge and education in the major fields. The assessment of the students applies Bloom's Taxonomy where the learning objectives are classified according to the different domains including: learning (remembering), understanding, applying,

analyzing, evaluating, the creating. Upon finishing this level, all students are eligible to receive an English language proficiency letter indicating their level according to the Common European Framework Reference for Languages (CEFR) varying between B2, C1 or C2 according to the grade they get upon finishing this level.

Prerequisites: ENGL1001

GERL101B1: German I B1 track	3 Cr Hr (9,0)	6 ECTS
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By the end of this module, the student will be able to:

- Comprehend very familiar, everyday expressions and very simple sentences and structures related to areas of most immediate relevance according to the discretionary standards in the *Common European Framework of Reference for Languages* (CEFR) at the Level A1.1 (beginners without pre-knowledge).
- Introduce herself/himself and others, express likes and dislikes, fill out a personal form, ask questions and give answers in present and partially in past tense, set private and semi-official appointments, describe people and things and express frequency and quantity in a very basic way both orally and in writing.
- Communicate with native speakers on a very basic level if those involved in the conversation speak slowly and clearly and are willing to support the non-native speaker.

Prerequisites: Intensive pre-course (only for 1st semester of an academic year)

GERL102B1: German II B1 track	3 Cr Hr (9,0)	6 ECTS
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By the end of this module, the student will be able to:

- Understand and use familiar, everyday expressions and very simple sentences and structures related to areas of most immediate relevance according to the discretionary standards in the *Common European Framework of Reference for Languages* (CEFR) at the level A1.2 (basic users).
- Introduce herself/himself and others, express likes and dislikes, fill out a personal form, ask questions and give answers in present and past tense, set private and official appointments, describe people and things, ask for directions, express frequency and quantity in a basic way both orally and in writing.
- Communicate with native speakers on a very basic level if those involved in the conversation speak slowly and clearly and, if need be, are willing to support the non-native speaker.

Prerequisites: GERL101B1

GERL201B1: German III B1 track	3 Cr Hr (6,0)	4 ECTS
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By the end of this module, the student will be able to:

- Understand and use familiar, frequently used expressions and simple sentences and structures related to areas of a wider immediate relevance according to the discretionary standards in the *Common European Framework of Reference for Languages* (CEFR) at the level A2.1 (basic users).
- Talk about their academic and/or professional background, describe their living conditions, express likes and dislikes, ask questions and give answers in present and past tense, ask for help and support, make suggestions and give advice, describe health problems and talk with medical doctors and nurses, express pity, sorrow and hopes, express frequency and quantity in a basic way both orally and in writing.
- Communicate with native speakers within simple and familiar tasks requiring a simple and direct exchange of information on familiar and routine matters.

Prerequisites: GERL102B1, ENGL0099, ARB0099

GERL202B1: German IV B1 track	3 Cr Hr (9,0)	6 ECTS
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By the end of this module, the student will be able to:

- Distinguish between familiar expressions, sentences and structures related to areas of immediate relevance and more elaborated components like the main points of clear standard input on familiar matters regularly encountered in work, school, leisure etc. according to the discretionary standards in the *Common European Framework of Reference for Languages* (CEFR) at the level A2.2 (basic users) and, partially, at the level B1.1 (independent user).

- Talk about personal experiences with languages, express feelings of happiness, joy and discomfort, describe own media consumption habits, describe travel experiences, convince others, describe and report in official situations, describe statistics, write formal invitations and short emails, make suggestions and talk about future events and situations, describe dreams hopes and ambitions and briefly give reasons or explanations for opinions and plans.
- Communicate with native speakers about essential points and ideas in familiar contexts.
- Understand the characteristics of the official B1 exam according to the CEFR and use strategies to overcome obstacles while solving said exam.

Prerequisites: GERL201B1, ENGL0099, ARB0099

GERL301B1: German V B1 track	3 Cr Hr (9,0)	6 ECTS
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By the end of this module, the student will be able to:

- Understand the main points of clear standard input on familiar matters regularly encountered in work, school, leisure etc. according to the discretionary standards in the *Common European Framework of Reference for Languages* (CEFR) at the level B1.1 and B1.2 (independent user).
- Deal with most situations likely to arise whilst traveling in an area where German is spoken, produce simple connected texts on topic which are familiar or of personal interest, describe experiences and events, dreams, hopes and ambitions, statistics, and briefly give reasons and explanations for opinions and plans.
- Understand the main point of many radio or TV programmes on current events and topics, understand the description of events, feelings and wishes in personal letters, write personal letters/texts describing experiences and impressions, write straightforward connected texts on topics which are familiar or of personal interest.
- Communicate with native speakers about essential points and ideas in familiar contexts and about topics of personal or partially professional interest.
- Follow a lecture or talk within her/his field, provided the subject matter is familiar and the presentation straightforward and clearly structured.
- Understand simple technical information, such as operating instructions for everyday equipment.
- Understand all characteristics of the official B1 exam according to the CEFR and use a variety of strategies to overcome obstacles while solving said exam and all its components.

Prerequisites: GERL202B1

GERL302REG: German VI Regular	3 Cr Hr (6,0)	6 ECTS
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By the end of this module, the student will be able to:

- Successfully manage the application process for a six months internship in Germany which is part of the obligatory 'German Year' for all GJU students. The process consists of finding and understanding a suitable add in accordance with the students' major, writing a convincing CV and cover letter, and mastering an effective and mostly fluent interview, departing spontaneously, taking initiatives, expanding ideas with little help or prodding from the interviewer.
- Successfully manage the most significant situations which the student, in accordance with the currently studied major, encounters during her/his theoretical and practical semester in Germany. This process is being achieved within a technical language training focussing on action orientated and communicative scenarios like following lectures, taking notes, summarizing academic and technical texts, writing official emails and texts related to academic and vocational encounters, holding presentations, communicating both verbally and in writing with professors, university staff, students as well as with colleagues and customers during an internship.
- Understand the concept of general intercultural phenomena, reflect and understand the differences between culture and cultural standards in Jordan and in Germany, understand the concept of 'culture shock' and potentially cope with its different stages, reflect about appropriate and inappropriate behaviour in Germany as well as understand the concepts of open-mindedness and 'culture clash'.

Prerequisites: GERL301B1

GERL302INT: German VI Intensive	3 Cr Hr (9,0)	6 ECTS
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By the end of this module, the student will be able to:

- Successfully manage the application process for a six months internship in Germany which is part of the obligatory 'German Year' for all GJU students. The process consists of finding and understanding a suitable add in accordance with the students' major, writing a convincing CV and cover letter, and mastering an effective and mostly fluent interview, departing spontaneously, taking initiatives, expanding ideas with little help or prodding from the interviewer.
- Successfully manage the most significant situations which the student, in accordance with the currently studied major, encounters during her/his theoretical and practical semester in Germany. This process is being achieved within a technical language training focussing on action orientated and communicative scenarios like following lectures, taking notes, summarizing academic and technical texts, writing official emails and texts related to academic and vocational encounters, holding presentations, communicating both verbally and in writing with professors, university staff, students as well as with colleagues and customers during an internship.
- Understand the concept of general intercultural phenomena, reflect and understand the differences between culture and cultural standards in Jordan and in Germany, understand the concept of 'culture shock' and potentially cope with its different stages, reflect about appropriate and inappropriate behaviour in Germany as well as understand the concepts of open-mindedness and 'culture clash'.
- Understand all characteristics of the official B1 exam according to the CEFR and use different strategies to overcome obstacles while solving said exam and its different components.

Prerequisites: GERL301B1

GERL102B2: German II B2 track	3 Cr Hr (9,0)	6 ECTS
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By the end of this module, the student will be able to:

- Understand and use familiar, everyday expressions and simple sentences and structures related to areas of most immediate relevance according to the discretionary standards in the *Common European Framework of Reference for Languages* (CEFR) at the level A1.2 and, partially, A2.1 (basic users).
- Talk about their academic and/or professional background, describe their living conditions, express likes and dislikes, ask questions and give answers in present and past tense, ask for help and support, make suggestions and give advice, express pity, sorrow and hopes, express frequency and quantity in a basic way both orally and in writing.
- Introduce herself/himself and others, express likes and dislikes, fill out a personal form, ask questions and give answers in present and past tense, set private and official appointments, describe people and things, ask for directions, express frequency and quantity in a basic way both orally and in writing.
- Communicate with native speakers on a basic level if those involved in the conversation speak slowly and clearly and, if need be, are willing to support the non-native speaker.

Prerequisites: GERL101B1

GERL201B2: German III B2 track	3 Cr Hr (6,0)	4 ECTS
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By the end of this module, the student will be able to:

- Distinguish between familiar expressions, sentences and structures related to areas of immediate relevance and more elaborated components like the main points of clear standard input on familiar matters regularly encountered in work, school, leisure etc. according to the discretionary standards in the *Common European Framework of Reference for Languages* (CEFR) at the level A2.1 and A2.2 (basic users).
- Talk about their academic and/or professional background, describe their living conditions, express likes and dislikes, ask questions and give answers in present and past tense, ask for help and support, make suggestions and give advice, describe health problems and talk with medical doctors and nurses, express pity, sorrow and hopes, describe simple statistics, express frequency and quantity in a basic way both orally and in writing, express feelings of happiness, joy and discomfort and write personal emails and letters, understand and produce comments, blogs and reports.

- Communicate with native speakers in simple and familiar tasks requiring a simple and direct exchange of essential information on familiar and routine matters.

Prerequisites: GERL102B2, ENGL0099, ARB0099

GERL202B2: German IV B2 track	3 Cr Hr (9,0)	6 ECTS
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By the end of this module, the student will be able to:

- Understand the main points of clear standard input on familiar matters regularly encountered in work, school, leisure etc. according to the discretionary standards in the *Common European Framework of Reference for Languages* (CEFR) at the level B1.1 and B1.2 (independent user).
- Deal with most situations likely to arise whilst traveling in an area where German is spoken, produce simple connected texts on topic which are familiar or of personal interest, describe experiences and events, dreams, hopes and ambitions and briefly give reasons and explanations for opinions and plans.
- Understand the main point of many radio or TV programmes on current events and topics, understand the description of events, feelings and wishes in personal letters, write personal letters/texts describing experiences and impressions, write straightforward connected texts on topics which are familiar or of personal interest.
- Communicate with native speakers about essential points and ideas in familiar contexts and about topics of personal or partially professional interest.
- Follow a lecture or talk within her/his field, provided the subject matter is familiar and the presentation straightforward and clearly structured.
- Understand simple technical information, such as operating instructions for everyday equipment.
- Understand all characteristics of the official B1 exam according to the CEFR and use different strategies to overcome obstacles while solving said exam and all its components.

Prerequisites: GERL201B2, ENGL0099, ARB0099

GERL301B2: German V B2 track	3 Cr Hr (9,0)	6 ECTS
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By the end of this module, the student will be able to:

- Largely understand and produce rather complex texts on both concrete and abstract topics, including technical discussions in her/his field of specialisation and according to the discretionary standards in the *Common European Framework of Reference for Languages* (CEFR) at the level B2.1 (independent user).
- Interact with an initial degree of fluency and spontaneity that makes regular interaction with native speakers quite possible without strain for either party.
- Largely understand standard spoken language, live or broadcast, on both familiar and unfamiliar topics normally encountered in personal, social, academic or vocational life.
- Show a relatively high controlled degree of grammatical control without making errors which cause misunderstanding and with the growing ability to correct most of her/his mistakes.
- Largely follow essentials of lectures, talks, reports and other forms of academic/professional presentation which are propositionally and linguistically complex.
- Understand announcements and messages on concrete and abstract topics spoken in standard dialect at normal speed.
- Scan quickly through long texts, locating relevant details and understand and exchange complex information and advice on the full range of matters related to her/his occupational role.
- Understand the main characteristics of the official B2 exam according to the CEFR and use different strategies to overcome obstacles while solving said exam and its different components.

Prerequisites: GERL202B2

GERL302B2: German VI B2 track	3 Cr Hr (6,0)	6 ECTS
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By the end of this module, the student will be able to:

- Understand and produce rather complex texts on both concrete and abstract topics, including technical discussions in her/his field of specialisation and according to the discretionary standards

in the *Common European Framework of Reference for Languages* (CEFR) at the level B2.2 (independent user).

- Interact with a degree of fluency and spontaneity that makes regular interaction with native speakers quite possible without strain for either party.
- Understand standard spoken language, live or broadcast, on both familiar and unfamiliar topics normally encountered in personal, social, academic or vocational life.
- Show a highly controlled degree of grammatical control without making errors which cause misunderstanding and with the growing ability to correct most of her/his mistakes.
- Follow essentials of lectures, talks, reports and other forms of academic/professional presentation which are propositionally and linguistically complex.
- Understand announcements and messages on concrete and abstract topics spoken in standard dialect at normal speed.
- Scan quickly through long texts, locating relevant details and understand and exchange complex information and advice on the full range of matters related to her/his occupational role.
- Understand all characteristics of the official B2 exam according to the CEFR and use different strategies to overcome obstacles while solving said exam and its different components.
- Successfully manage the application process for a six months internship in Germany which is part of the obligatory 'German Year' for all GJU students. The process consists of finding and understanding a suitable add in accordance with the students' major, writing a convincing CV and cover letter, and mastering an effective and mostly fluent interview, departing spontaneously, taking initiatives, expanding ideas with little help or prodding from the interviewer.
- Successfully manage the most significant situations which the student, in accordance with the currently studied major, encounters during her/his theoretical and practical semester in Germany. This process is being achieved within a technical language training focussing on action orientated and communicative scenarios like following lectures, taking notes, summarizing academic and technical texts, writing official emails and texts related to academic and vocational encounters, holding presentations, communicating both verbally and in writing with professors, university staff, students as well as with colleagues and customers during an internship.
- Understand the concept of general intercultural phenomena, reflect and understand the differences between culture and cultural standards in Jordan and in Germany, understand the concept of 'culture shock' and potentially cope with its different stages, reflect about appropriate and inappropriate behaviour in Germany as well as understand the concepts of open-mindedness and 'culture clash'.

Prerequisites: GERL301B2

MILS100: Military Science

3 Cr Hr (3,0)

3 ECTS

History of the Jordanian Arab Army. United Nations Peace Keeping Forces. Preparation of the nation for defense and liberation. History of the Hashemite Kingdom of Jordan and its development.

Prerequisites:-

NE101: National Education

3 Cr Hr (3,0)

3 ECTS

In a context of striving towards democracy like the one Jordan enjoys today, the meaning and practice of active and responsible citizenship becomes more crucial. It is often argued that democracy requires "democrats" to flourish, and become well established. Democrats are those women and men who recognize pluralism, inclusion, positive engagement, and participation as the main values that govern their interaction with the state as citizens and with each other as diverse people of different interests. In this course you will be able to understand your rights and responsibilities as Jordanian citizen expand your knowledge about the frameworks, and processes that regulates citizen-state relationships as well as the basic necessary skills for you to practice your citizenship rights in a civic manner.

Prerequisites:-

DS1001: Dual Study Practical I

3 Cr Hr

3 ECTS

This course is a core component of the dual studies track, providing students with a 12-week immersive training experience in a partner company. The training emphasizes the practical application of logistics and supply chain management concepts in a professional setting. Students work under the supervision of industry professionals, engaging in real-world projects and day-to-day operations across various logistics functions such as warehousing, transportation, procurement, and supply chain optimization. The program bridges academic learning with industry practice, fostering skills in problem-solving, teamwork, and professional communication. By integrating students into the workplace, the course prepares them for the challenges of the logistics industry and enhances their employability.

Prerequisites: -

DS1001: Dual Study Practical II

3 Cr Hr

3 ECTS

This course is a core component of the dual studies track, providing students with a 12-week immersive training experience in a partner company. The training emphasizes the practical application of logistics and supply chain management concepts in a professional setting. Students work under the supervision of industry professionals, engaging in real-world projects and day-to-day operations across various logistics functions such as warehousing, transportation, procurement, and supply chain optimization. The program bridges academic learning with industry practice, fostering skills in problem-solving, teamwork, and professional communication. By integrating students into the workplace, the course prepares them for the challenges of the logistics industry and enhances their employability.

Prerequisites: -DS1001

DS1001: Dual Study Practical III

0 Cr Hr

6 ECTS

This course is a core component of the dual studies track, providing students with a 12-week immersive training experience in a partner company. The training emphasizes the practical application of logistics and supply chain management concepts in a professional setting. Students work under the supervision of industry professionals, engaging in real-world projects and day-to-day operations across various logistics functions such as warehousing, transportation, procurement, and supply chain optimization. The program bridges academic learning with industry practice, fostering skills in problem-solving, teamwork, and professional communication. By integrating students into the workplace, the course prepares them for the challenges of the logistics industry and enhances their employability.

Prerequisites: -DS1002