

COURSE OUTLINE “GLOBAL SUPPLY CHAIN MANAGEMENT”

(1) GENERAL

SCHOOL	SOCIAL SCIENCES, HUMANITIES AND ARTS		
ACADEMIC UNIT	DEPT OF INTERNATIONAL AND EUROPEAN STUDIES		
LEVEL OF STUDIES	Postgraduate		
COURSE CODE	SST005	SEMESTER OF STUDY	B
COURSE TITLE	GLOBAL SUPPLY CHAIN MANAGEMENT		
INDEPENDENT TEACHING ACTIVITIES <i>where credit is awarded for discrete parts of the course e.g. lectures, laboratory exercises, etc. If credit is awarded for the whole course, indicate the weekly teaching hours and the total number of credits</i>		WEEKLY TEACHING HOURS	CREDIT UNITS
LECTURES		3 (39 in total) ¹	7,5
<i>Add rows if necessary. The teaching organisation and the teaching methods used are described in detail in (d).</i>			
TYPE OF COURSE <i>general background, special background, specialization, general knowledge, skills development</i>	SPECIAL BACKGROUND		
PREREQUISITE COURSES:	0		
LANGUAGE OF TEACHING AND EXAMINATION:	ENGLISH		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	NO		
ELECTRONIC COURSE PAGE (URL)			

(2) LEARNING OUTCOMES

<p>Learning Outcomes</p> <p><i>The learning outcomes of the course are described as the specific knowledge, skills and competences of an appropriate level that students will acquire after successful completion of the course.</i></p> <p><i>Consult Annex A</i></p> <ul style="list-style-type: none"> • <i>Description of the Level of Learning Outcomes for each cycle of study according to the Qualifications Framework of the European Higher Education Area</i> • <i>Descriptive Indicators for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Annex B</i> • <i>Learning Outcomes Writing Comprehensive Guide</i> 								
<p>Upon successful completion of the course, students will be able to:</p> <ul style="list-style-type: none"> - Plan, schedule and execute the main and supporting functions of Supply Chain Management - Select and apply the appropriate tools, methods and techniques to support decision support for optimal supply chain planning and operations (e.g. network planning, facility layout, demand forecasting, inventory management, vehicle routing) - select and apply new technologies, information systems and innovative practices in the operation of the PPC (e.g. Supply Chain 4.0, Warehouse 4.0, Transport 4.0), with emphasis on the organisation and operation of warehouses, the management of the distribution vehicle fleet, as well as innovative multichannel distribution models 								
<p>General skills</p> <p><i>Taking into account the general competences that the graduate should have acquired (as listed in the Diploma Supplement and listed below), which one(s) does the course aim at?</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><i>Search, analysis and synthesis of data and information, using the necessary technologies</i></td> <td style="width: 50%; border: none;"><i>Project planning and management</i></td> </tr> <tr> <td style="border: none;"><i>Adapting to new situations</i></td> <td style="border: none;"><i>Respect for diversity and multiculturalism</i></td> </tr> <tr> <td style="border: none;"><i>Decision-making</i></td> <td style="border: none;"><i>Respect for the natural environment</i></td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"><i>Demonstrate social, professional and ethical</i></td> </tr> </table>	<i>Search, analysis and synthesis of data and information, using the necessary technologies</i>	<i>Project planning and management</i>	<i>Adapting to new situations</i>	<i>Respect for diversity and multiculturalism</i>	<i>Decision-making</i>	<i>Respect for the natural environment</i>		<i>Demonstrate social, professional and ethical</i>
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	<i>Demonstrate social, professional and ethical</i>							

¹ In this program a module’s lectures take place every two weeks.

Autonomous work	responsibility and sensitivity to gender issues
Teamwork	Exercise of criticism and self-criticism
Working in an international environment	Promoting free, creative and inductive thinking
Working in an interdisciplinary environment
Generating new research ideas	Other...

The course aims, inter alia, to develop the following general competences:

- Search, analysis and synthesis of data and information, using the necessary technologies, information systems and quantitative methods and tools
- Decision-making, using the most appropriate methods, techniques, methods, tools and techniques, including the use of scientific and technological instruments, techniques and methods of analysis and analysis.
- Using the tools, techniques, methods, techniques and methods of analysis and analysis, using scientific and methodological tools and techniques, including the use of analytical methods, techniques and methods of analysis and data analysis.
- Critical evaluation and analysis of international case studies

(3) COURSE CONTENT/SYLLABUS

The aim of the course is to provide a comprehensive understanding of global supply chain systems and their management process. Students are first introduced to the basic concepts and methods related to global supply chain analysis and management. Course topics include a discussion of the functions and design of global supply chains, as well as the concept of strategic supply chain management. In particular, the course addresses topics related to planning, operations and decision support for supply chain issues in businesses and organizations. Particular emphasis is placed on:

- The strategic role and importance of supply chain functions in businesses/organisations and the wider economic environment,
- the use of quantitative methods and tools for mathematical modelling and solving applications/problems in Supply Chain Management (SCM),
- the introduction and benefits of adopting advanced and emerging Technologies and Information Systems in Logistics and ICS (e.g. Supply Chain 4.0, Transport 4.0, Warehouse 4.0),
- in decision support and performance evaluation of Supply Chain Management using Information Systems
- the current trends and perspectives in Supply Chain Management

The organisational structure of the course includes the following main modules:

Introduction and basic concepts in Supply Chain Management
Principles and concepts of supply chain management and concepts of supply chain management
Introduction and concepts of logistics supply chain management and how it works
Introduction to the logistics chain and its operation
Customer service and customer care Logistics and customer service
Mathematical modelling of transport problems
Warehouse management
Information Systems and Warehousing Technologies (Warehouse 4.0)
Information Systems and Transport Technologies (Transport 4.0)
Project presentations - Discussion

(4) TEACHING and LEARNING METHODS - EVALUATION

METHOD OF DELIVERY <i>Face-to-face, Distance learning, etc.</i>	The teaching method includes: <ul style="list-style-type: none"> ● Face-to-face and/or distance learning (13 3-hour lectures by the teacher on the course material)
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES <i>Use of ICT in Teaching, Laboratory Training, Communication with students</i>	Use of ICT in Laboratory Education In the context of the course, laboratory courses will be conducted to learn relevant ERP system modules (e.g. SAP), as well as specialized software for distribution fleet and warehouse management (e.g. Logistics Vision Suite). Use of ICT in teaching Extensive use of Microsoft Office (e.g. powerpoint, word,

	<p>excel) is used in teaching.</p> <p>Use of ICT in communication with students The main ICT aids used in communication with students are as follows: communication (e.g. course description, posting of educational material, announcements, useful links, grades) through the integrated asynchronous tele-education system eClass electronic mail (email) and, less frequently, communication via skype sharing files (e.g. assignments, educational material) via the cloud (e.g. Dropbox, Drive).</p>																		
<p>ORGANISATION OF TEACHING <i>The way and methods of teaching are described in detail.</i> <i>Lectures, Seminars, Laboratory Exercise, Field Exercise, Study & Analysis of Literature, Tutoring, Practical (Placement), Clinical Exercise, Artistic Workshop, Interactive teaching, Educational visits, Study visits, Project work, Writing work / assignments, Artistic creation, etc.</i></p> <p><i>The student's hours of study for each learning activity and the hours of unguided study according to ECTS principles are indicated.</i></p>	<table border="1"> <thead> <tr> <th data-bbox="619 611 948 645">Activity</th> <th data-bbox="948 611 1273 645">Semester workload</th> </tr> </thead> <tbody> <tr> <td data-bbox="619 645 948 745">Lectures (including laboratory exercises and presentation of projects)</td> <td data-bbox="948 645 1273 745">39 hours</td> </tr> <tr> <td data-bbox="619 745 948 813">Preparation of laboratory exercises</td> <td data-bbox="948 745 1273 813">30 hours</td> </tr> <tr> <td data-bbox="619 813 948 880">Preparing and writing projects</td> <td data-bbox="948 813 1273 880">30 hours</td> </tr> <tr> <td data-bbox="619 880 948 913"></td> <td data-bbox="948 880 1273 913"></td> </tr> <tr> <td data-bbox="619 913 948 947">Preparing for exams</td> <td data-bbox="948 913 1273 947">111 hours</td> </tr> <tr> <td data-bbox="619 947 948 981"></td> <td data-bbox="948 947 1273 981"></td> </tr> <tr> <td data-bbox="619 981 948 1014"></td> <td data-bbox="948 981 1273 1014"></td> </tr> <tr> <td data-bbox="619 1014 948 1048">Total Course</td> <td data-bbox="948 1014 1273 1048">210 hours=7,5 ECTS</td> </tr> </tbody> </table>	Activity	Semester workload	Lectures (including laboratory exercises and presentation of projects)	39 hours	Preparation of laboratory exercises	30 hours	Preparing and writing projects	30 hours			Preparing for exams	111 hours					Total Course	210 hours=7,5 ECTS
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<p>STUDENT ASSESSMENT <i>Description of the evaluation process</i></p> <p><i>Language of Evaluation, Evaluation Methods, Formative or Inferential, Multiple Choice Test, Multiple Choice Test, Short Answer Questions, Test Development Questions, Problem Solving, Written Work, Report, Oral Examination, Oral Examination, Public Presentation, Laboratory Work, Clinical Examination of a Patient, Artistic Interpretation, Other</i></p> <p><i>Explicitly identified assessment criteria are stated and if and where they are accessible to students.</i></p>	<p>The assessment of students is based on the following: Final Examination: 70% Group work of 3-4 students (Final Report and Presentation of Work): 30%.</p> <p>Students are informed from the 1st lecture about the obligations, grading policy and requirements of the semester group project, which includes the preparation of a technical report and public presentation in class. During the semester, guidelines, technical specifications, and criteria for evaluating the assignment are communicated: a) structure, diligence, and professionalism/appearance of final work deliverable; b) correlation of objectives to conclusions; c) degree of originality in analysis and/or conclusions; d) scientific validity, adequacy, and proper documentation of sources; e) effort/amount of work (effort); and f) communicative effectiveness and oral support of the assignment by team members (during presentation).</p> <p>At the end of the examinations, the grades of the assignments are also announced separately from the final grade in the eClass asynchronous tele-education system as an additional feedback on the final performance of the students.</p>																		

(5) RECOMMENDED-BIBLIOGRAPHY

- Suggested Bibliography:

- Chopra, S. (2018), Supply Chain Management: Strategy, Planning, and Operation, 7th Edition, Pearson Education.

- Bowersox, D.J., D.J. Closs, M. Bixby Cooper, and J.C. Bowersox (2020), Supply Chain Logistics Management, 5th Edition, McGraw-Hill.
- Rushton, A., P. Croucher, and P. Baker (2017), The Handbook of Logistics and Distribution Management: Understanding the Supply Chain, 6th Edition, Kogan Page.

Relevant Scientific Journals

- Journal of Supply Chain Management
- Supply Chain Management: An International Journal
- Journal of Business Logistics
- International Journal of Logistics Management
- International Journal of Logistics: Research and Applications
- International Journal of Physical Distribution and Logistics Management
- EURO Journal on Transportation and Logistics
- Transportation Science
- Transportation Research Parts A, B, C, D E
- Transportation Research Record
- Transport Policy
- Journal of Global Operations and Strategic Sourcing
- Production and Operations Management
- Interfaces
- Decision Support Systems
- Expert Systems with Applications
- Management Science
- Operations Research
- European Journal of Operational Research