

NAME OF THE COURSE		SUSTAINABLE/GREEN SUPPLY CHAIN MANAGEMENT				
Code		Year of study	1., II. semester			
Course teacher	Eleftherios Iakovou, PhD, Full Professor, tenured	Credits (ECTS)	5.0			
Associate teachers		Type of instruction (number of hours)	L	S	E	F
			30		15	
Status of the course	compulsory	Percentage of application of e-learning	/			
COURSE DESCRIPTION						
Course objectives	The goal of the course is to acquire knowledge related to the understanding of the interdisciplinary process of sustainable supply chains and the associated risks.					
Course enrolment requirements and entry competences required for the course	Undergraduate qualification (6th level of EQF or CROQF).					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<p>The student will:</p> <ul style="list-style-type: none"> - analyse an interdisciplinary nature of supply chain business processes and recognize the presence and the effect of uncertainty and risk. - shape the collaborative, agile and responsive supply chain networks through example exercises and case studies from Fortune 500 companies. - develop a systematic framework for analysing the behaviour of large and complex supply chain networks. - discover the state of the art technologies and best practices approaches that reduce total landed cost (production, inventory, transportation and CO₂ emissions costs) as well as supply lead time. - model reduce of total landed cost (pollution, inventory, transportation and CO₂ emissions costs) using state of the art technologies and best practices approaches - design, plan and execute Sustainable Supply Chains models. 					
Course content broken down in detail by weekly class schedule (syllabus)	The Global Business Landscape. Matching supply and demand. Optimal design of the logistics network. The link between logistics, customer value, sustainability and corporate Bottom Line. Adequate safety stock levels and the bullwhip and risk pooling concepts. Strategic alliances, outsourcing, offshoring and near shoring. Creating a Responsive Supply Chain. Security and Risk implications on SCM. Demand Management. Managing the global pipeline. Creating a sustainable supply chain. Green Supply Chains (GSCs) and Corporate Social Responsibility (CSR). Green Procurement. Green Production and Logistics. Carbon Footprint Management. Green Supply Chain Mitigation Strategies.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input checked="" type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor			

Student responsibilities	Regular attendance of classes, tests, written and oral exam,					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance	1.5	Research		Practical training	
	Experimental work	0.5	Report	0.5		
	Essay		Seminar essay	1.5		
	Tests	0.5	Oral exam			
	Written exam	0.5	Project			
Grading and evaluating student work in class and at the final exam	Exam and presentation of the written assignment.					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	E. Iakovou: given as ppt files					
	<i>Designing and Managing the Supply Chain: Concepts, Strategies and Case Studies</i> , David Simchi-Levi, Philip Kaminsky, Edith Simchi-Levi, 2007, 3rd Ed. Irwin, McGraw-Hill.					
	<i>Green Supply Chains: An Action Manifesto</i> , <u>Stuart Emmett</u> and <u>Vivek Sood</u> , Wiley, 2010.					
	<i>Green to Gold</i> , D. C. Esty and A. Winston, John Wiley, 2009					
Optional literature (at the time of submission of study programme proposal)	<i>Supercharging Supply Chains</i> , Gene Tyndall, Christopher Gopal, Wolfgang Partsch, and John Kamauff, Wiley, 1998					
Quality assurance methods that ensure the acquisition of exit competences	Quality assurance will be performed at three levels: (1) University level, through questionnaires; (2) Faculty level by Quality Control Committee; (3) Lecturer's level.					
Other (as the proposer wishes to add)						