



DIPARTIMENTO JONICO IN "SISTEMI GIURIDICI ED ECONOMICI DEL MEDITERRANEO: SOCIETÀ, AMBIENTE, CULTURE"

General information		
Academic subject	Logistics and	d Maintenance in Harbour Industry
Degree course	LM in Harbo	ur Strategic Sciences
Academic Year	2	
European Credit Transfer and Ad (ECTS)	ccumulation S	ystem 6
Language	Italian	
Academic calendar (starting and date)	lending	First Semester
Attendance	Recommend	led

Professor/ Lecturer	
Name and Surname	Giovanni Mummolo
E-mail	giovanni.mummolo@uniba.it
Telephone	
Department and address	Via Duomo 259
Virtual headquarters	Teams Code: 4rgbuel
Tutoring (time and day)	Monday 8:30 – 9:30; Wednesday 8:30 – 9:30 (via Teams)

Syllabus	
Learning Objectives	See SUA – Educational Guidelines
Course prerequisites	Basics of Math
Contents	Introduction to the course;
	 An overview of logistic solutions and requirements;
	 Transport systems for internal logistic. Manual andautomatic systems, special-purpose vehicles and equipment, installations and machines;
	 Details on technical features of internal logistic systems: operating features, operation and maintenance costs, purchase criteria; special- purpose equipment; installation and management; operation costs, safety issues;
	 Industrial warehouses: technical and management issues: warehouse functions; loading units; manual and automated warehouses; optimization problems in warehouses design; stock management principles;

	 information systems and procedures for warehouse management; External logistics: main transport systems/solutions; internal-external logistics integration issues; distribution logistics; decision-making in logistics. Reliability theory: functional and reliability charts, series and parallel systems, series-parallel systems, majority logic systems, stand-by systems. Organization and management of maritime maintenance service: maintenance planning, management of the maintenance spare parts, forecast of spare parts.
Books and bibliography	 Monte Elementi di impianti industriali, Vol 1 e Vol 2 (Cap. 32 e 33) . Ed. LibreriaCortina Torino, 2002-2003. A. Pareschi: "Logistica Integrata e Flessibile"; Ed. Esculapio – Bologna – 2002 E. Rullani: "Sistema logistico e gestione della produzione"; in "Economia e Direzione dell'Impresa Industriale" – a cura di P. Saraceno – Ed. ISEDI Milano –1981 L. Fedele, L. Furlanetto, D. Saccardi. Progettare e gestire la manutenzione, Ed. McGraw Hill, Milano, 2004.
Additional materials	Course slides

Work schedule	2			
Total	Lectures	I	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours				
150 hours	48 hours			102 hours
ECTS				L
6	6			
Teaching strate	egy			
		√ 3 hour √ 24 hou	s one-lecture in presence; s one-lecture recorded; urs of interactive lectures (correspond to 8 hours lea cal lectures are followed by exercise of practical cha	
Expected learn	ning outcomes			
Knowledge and understanding	; on:	logis the • The stok well	course provides the knowledge for identifying the tics and maintenance in the maritime sector referrin strategies and more efficient mode of transportatio course is focused on the supplies' management inir ing solution adopted, inbound/outbound material h as techniques for analysis and monitoring of mainte	ng to theevaluation of n. ndustrial warehouses, nandling strategies as enance processes.
Applying know understanding	-	the e mod	course by analysis of full real-case studies will provie evaluation tools allowing to quantify the efficiency of lels and maintenance processes. each full case, the student will identify the more cor	of different logistics

	based onthe existing constraints, decision variables, and parameters to be optimized.
Soft skills	 Making informed judgments and choices Alternative scenario analysis carried out by different logistic approaches, the student will be able to: Improve her/his judgement capability; Identify, case by case, best solutions; Optimize the management of logistic flows of the product, by considering the product's features, maintenance constraints and expectations of involved subjects;

al examination of 30 minutes duration. The focus of the test consists to aluate the capability of students adopting tools and solution approaches arned in the course to full real case study. aluate the knowledge of students on topics expressed in the full course, in terms expressive abilities and proper terminology. <i>Knowledge and understanding</i> • Level of details of topics developed <i>Applying knowledge and understanding</i> • Level of application of knowledge to practical cases.
 Level of details of topics developed Applying knowledge and understanding
 Autonomy of judgment Critical reasoning capability Communicating knowledge and understanding Clarity of exposition Appropriateness of language and technical terms Capacities to continue learning Reasoning capability development
nale vote is assigned in 30 units. The exam will be intend as passed in case of a te greater than or equal to 18/30.