

General information	
Academic subject	Information and communication technology
Degree course	SMEF – MEC – ESMI
Academic Year	First year
European Credit Transfer and Accumulation System (ECTS)	5
Language	Italian
Academic calendar (starting and ending date)	I semester
Attendance	

Professor/ Lecturer	
Name and Surname	Alessandro Pagano
E-mail	Alessandro.pagano@uniba.it
Telephone	
Department and address	Fifth floor (dief)
Virtual headquarters	MS Teams o Google Meet
Tutoring (time and day)	Friday from 8:30 to 10:30 (in presence) On appointment (online)

Syllabus	
Learning Objectives	<p>Give the student tools and methods that allow him to relate to new technologies:</p> <ul style="list-style-type: none"> • As a specialized user and as an active interlocutor able to grasp the transversality of some methodological tools common to economic and IT disciplines; • Be aware of the contribution that a graduate in economics can make to the dialogue between structures, representations and contents in ICT. <p>Be aware of the fundamental role of ICT in the company.</p>
Course prerequisites	Knowledge of the main office applications: word processing, spreadsheet, database.
Contents	<p>Module 1: Information Systems Didactic Unit 1: Information Systems Didactic Unit 2: Information Systems in the Company Didactic Unit 3: Information Systems, companies, management and strategy Didactic Unit 4: Management and business development through the Network</p> <p>Module 2: Company IT infrastructure Didactic Unit 1: IT infrastructure and platforms Didactic Unit 2: Management of company data Didactic Unit 3: Data Warehousing and hints on Data Mining Didactic Unit 4: Telecommunications, Networks and Internet Didactic Unit 5: The wireless revolution Didactic Unit 6: Safety and Control Didactic Unit 7: Cryptography and digital signature</p> <p>Module 3: Support systems for the management and organization of the digital company Didactic Unit 1: Business applications and integration of business processes Didactic Unit 2: Knowledge management in the digital enterprise Didactic Unit 3: Improvement of decision-making processes Didactic Unit 4: ERP Systems</p>

	<p>Didactic Unit 5: E-commerce systems</p> <p>Module 4: Implementation and management of IS in the digital enterprise</p> <p>Didactic Unit 1: Redesign the company through SI</p> <p>Didactic Unit 2: Understanding the business value of IS</p>
Books and bibliography	<p>Dennis P. Curtin, Kim Foley, Kunal Sen e Cathleen Morin, Informatica di base (7/ed), McGraw-Hill. - https://amzn.to/3muAHle</p> <p>Atzeni P., Ceri S., Paraboschi S., Torlone R., Basi di dati, McGrawHill. ISBN: 88-386-6008-5: Capitoli 1 e 2 completi. (Optional)</p> <p>Pier Franco Camussone – Il Sistema Informativo Aziendale – ETAS Libri (Optional)</p> <p>Teaching materials available on elearning platform</p>
Additional materials	

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
SMEF (42) – MEC/ESMI (28)	SMEF (42) – MEC/ESMI (28)		
CFU/ETCS			
SMEF (6) – MEC/ESMI (4)	SMEF (6) – MEC/ESMI (4)		
Teaching strategy		<p>Frontal teaching</p> <p>Didactic material and exercises available on the department's e-learning platform</p>	
Expected learning outcomes			
Knowledge and understanding on:		<p>Students of the course must:</p> <ul style="list-style-type: none"> • demonstrate knowledge and understanding of the fundamentals of information technology; • demonstrate knowledge and understanding of digital information processing methods; • demonstrate knowledge and understanding of information manipulation tools in company data structures; • demonstrate knowledge and ability to implement the most common corporate information systems • demonstrate knowledge and understanding of corporate information systems redesign tools • demonstrate knowledge and understanding of network communication systems. 	
Applying knowledge and understanding on:		<p>Students of the course must:</p> <ul style="list-style-type: none"> • be able to apply their knowledge and understanding to face different types of scenarios; • be able to apply their knowledge and understanding to formulate and solve problems. 	
Soft skills		<ul style="list-style-type: none"> • <i>Making informed judgments and choices</i> <p>Students of the course must:</p> <ul style="list-style-type: none"> • have the ability to collect and interpret data, being able to derive autonomous judgments; 	

	<ul style="list-style-type: none"> • be able to understand the impact of IT solutions in everyday life contexts. <p><i>Communicating knowledge and understanding</i> Students of the course must:</p> <ul style="list-style-type: none"> • knowing how to communicate information, ideas, problems and solutions to specialist and non-specialist interlocutors; <p><i>Capacities to continue learning</i> Students of the course must:</p> <ul style="list-style-type: none"> • have developed the learning skills necessary to undertake subsequent studies with a high degree of autonomy and the application of knowledge in the profession; • have developed the learning skills necessary to autonomously update their knowledge.
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Assessment and feedback	
Methods of assessment	Learning will be verified through a multiple choice test and a possible oral interview.
Evaluation criteria	<ul style="list-style-type: none"> • <i>Knowledge and understanding</i> <ul style="list-style-type: none"> ○ The understanding of the topics covered will be evaluated through theoretical questions • <i>Applying knowledge and understanding</i> <ul style="list-style-type: none"> ○ It will be assessed through questions placed in a practical context. • <i>Autonomy of judgment</i> <ul style="list-style-type: none"> ○ It will be evaluated through questions in which the student will have to make decisions in real contexts. • <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> ○ It will be evaluated through open questions or oral interview • <i>Capacities to continue learning</i> <ul style="list-style-type: none"> ○ Will be evaluated through questions whose answer provides a link between topics covered during the course.
Criteria for assessment and attribution of the final mark	<p><18 insufficient Fragmentary and superficial knowledge of the contents, errors in applying the concepts, lack of exposure</p> <p>18 - 20 Sufficient but general knowledge of the contents, simple exposition, uncertainties in the application of theoretical concepts</p> <p>21 - 23 Appropriate but not in-depth knowledge of contents, ability to apply theoretical concepts, ability to present contents in a simple way</p> <p>24 - 25 Appropriate and broad knowledge of contents, fair ability to apply knowledge, ability to present contents in an articulated way.</p> <p>26 - 27 Precise and complete knowledge of contents, good ability to apply knowledge, analytical skills, clear and correct presentation</p> <p>28 - 29 Wide, complete and in-depth knowledge of contents, good application of</p>

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	contents, good ability to analyze and synthesize, safe and correct exposure, 30 30 and praise Very broad, complete and in-depth knowledge of contents, well-established ability to apply contents, excellent ability to analyze, synthesize and interdisciplinary connections, mastery of exposure
Additional information	