COURSE OF STUDY: SMEF (EC – ESMI – EFI)
ACADEMIC YEAR: 2023 -2024
ACADEMIC SUBJECT: Information and Communication Technology

General information	
Year of the course	First year
Academic calendar (starting and ending date)	September - December
Credits (CFU/ETCS):	6 (SMEF) – 4 (EFI – EC – ESMI)
SSD	INF/01
Language	Italian
Mode of attendance	In presence

Professor/ Lecturer	
Name and Surname	Alessandro Pagano
E-mail	Alessandro.pagano@uniba.it
Telephone	
Department and address	Fifth floor (dief) – Room 23
Virtual room	MS Teams o Google Meet
Office Hours (and modalities: e.g., by appointment, on line, etc.)	Friday from 8:30 to 10:30 (in presence) On appointment (online)

Work schedule	
Hours	

Total	Lectures	Hands-on (laboratory, workshops, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
SMEF (42) – MEC/ESMI (28)	SMEF (42) – MEC/ESMI (28)		
SMEF (6) – MEC/ESMI (4)	SMEF (6) – MEC/ESMI (4)		

Learning Objectives	Give the student tools and methods that allow him to relate to new technologies: • 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. Be aware of the fundamental role of ICT in the company.
Course prerequisites	Knowledge of the main office applications: word processing, spreadsheet, database.

Teaching strategy	Frontal teaching Didactic material and exercises available on the department's e-learning platform
Expected learning outcomes in terms of	

Knowledge and understanding on:	Students of the course must: • 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 o demonstrate knowledge and understanding of network communication systems.
Applying knowledge and understanding on:	Students of the course must: • be able to apply their knowledge and understanding to face different types of scenarios; o be able to apply their knowledge and understanding to formulate and solve problems.
Soft skills	• *Making informed judgments and choices* Students of the course must: • have the ability to collect and interpret data, being able to derive autonomous judgments; • be able to understand the impact of IT solutions in everyday life contexts. *Communicating knowledge and understanding* Students of the course must: • knowing how to communicate information, ideas, problems and solutions to specialist and non-specialist interlocutors; *Capacities to continue learning* Students of the course must: • have developed the learning skills necessary to undertake subsequent studies with a high degree of autonomy and the application of knowledge in the profession; o have developed the learning skills necessary to autonomously update their knowledge.
Syllabus	
Content knowledge	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 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 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 Didactic Unit 5: E-commerce systems Module 4: Implementation and management of IS in the digital enterprise Didactic Unit 1: Redesign the company through SI Didactic Unit 2: Understanding the business value of IS
Texts and readings	Dennis P. Curtin, Kim Foley, Kunal Sen e Cathleen Morin, Informatica di base (7/ed), McGraw-Hill. - https://amzn.to/3muAHIe Atzeni P., Ceri S., Paraboschi S., Torlone R., Basi di dati, McGrawHill. ISBN: 88-386-6008-5: Capitoli 1 e 2 completi. (Optional) Pier Franco Camussone – Il Sistema Informativo Aziendale – ETAS Libri (Optional)
Notes, additional materials	Teaching materials available on elearning platform
Repository	

Assessment	
Assessment methods	Learning will be verified through a multiple choice test and a possible oral interview.

Assessment criteria	• *Knowledge and understanding*
	  o The understanding of the topics covered will be evaluated through theoretical questions
	• *Applying knowledge and understanding*
	  o It will be assessed through questions placed in a practical context.
	• *Autonomy of judgment*
	  o It will be evaluated through questions in which the student will have to make decisions in real contexts.
	• *Communicating knowledge and understanding*
	  o It will be evaluated through open questions or oral interview
	• *Capacities to continue learning*
	  o Will be evaluated through questions whose answer provides a link between topics covered during the course.

Final exam and grading criteria	<18 insufficient Fragmentary and superficial knowledge of the contents, errors in applying the concepts, lack of exposure 18 - 20 Sufficient but general knowledge of the contents, simple exposition, uncertainties in the application of theoretical concepts 21 - 23 Appropriate but not in-depth knowledge of contents, ability to apply theoretical concepts, ability to present contents in a simple way 24 - 25 Appropriate and broad knowledge of contents, fair ability to apply knowledge, ability to present contents in an articulated way. 26 - 27 Precise and complete knowledge of contents, good ability to apply knowledge, analytical skills, clear and correct presentation

	28 - 29 Wide, complete and in-depth knowledge of contents, good application of 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
Further information	
	.