

General information			
Academic subject	INFORMATICS		
Degree course	Economia e Amministrazione delle Aziende		
Academic Year	11		
European Credit Transfer and Accumulation System (ECTS) 7			
Language	italian		
Academic calendar (starting and	ending date) II semester		
Attendance			

Professor/ Lecturer		
Name and Surname	Antonella Serra	
E-mail	antonella.serra@uniba.it	
Telephone		
Department and address	Ionian department	
Virtual headquarters	Teams	
Tutoring (time and day)	After class, in person	
	Online, by appointment via e-mail	

Knowledge and understanding Knowledge of the fundamental concepts for an adequate use of ICT technologies in the company.		
Introduction to ITAnalog and digitalThe representation of information: character encoding, the coding of numbersthe encoding of images and soundsLogical data structuring: filesComputer hardware architectureThe softwareThe concept of algorithm. Constants, variables and instructions of an algorithm.The programming languages. Machine language. Low-level symbolic languages.High-level languages.Program translation processes: compilation and interpretation.Software use licenses: licenses for free and open-source software; licenses forproprietary or closed source software.The operating systemComputer networks: introductionLocal networks, geographic networks, the InternetThe Web. From hosting to housing. Cloud computingData management.Structured data and unstructured data. The management of structured data.DBMS and database. Design of a relational database: conceptual design andlogical design.The SQL language.Data QualityInformation systemsInformation systemsInformation systemsInformation systems classification: TPS, MIS, DSS, ESS. OLAP and OLTP.IT security		



Books and bibliography		Lecture notes available on the e-learning platform			
Additional mater	ials				
Work schedule					
Total	Lectures		Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours	
Hours					
175	56			119	
ECTS 7					
Teaching strategy	/	Frontal le	essons		
Expected learning	-				
Knowledge and understanding		$_{\odot}$ Know the fundamental concepts for a wise use of ICT technologies in the			
on:		company.			
Applying knowledge and understanding on:		 Autonomy in decisions about the right software / service to be used in the company 			
Soft skills		Auto	nomy of judgment		
		• Show that you have acquired autonomy of judgment on the choices in relation			
		to the design of a Company Information System.			
			munication skills		
		 Show 	v to be able to communicate in an appropriate	e wav the technical	
		characteristics of a Company Information System.			
			ity to learn independently		
		• Show insig	w that you have developed the ability to indepen hts on topics relating to ICT resources that can be mation Systems.		

Assessment and feedback	
Methods of assessment	Oral / written exam
Evaluation criteria	 Knowledge and understanding:
	 Show that you have developed the ability to independently learn further insights on topics relating to ICT resources that can be used in Company Information Systems.
	 Applied knowledge and understanding:
	 Show that they have developed the ability to independently apply the concepts relating to ICT resources that can be used in Company Information Systems.
	Autonomy of judgment:
	 Show that you have developed evaluation skills in real contexts
	Communication skills:
	 Show that you have developed the ability to communicate what you have learned in a clear and rigorous way.
	Ability to learn:
	 Show that you have acquired a learning methodology
Criteria for assessment and	The results obtained, of all the expected learning criteria, will be evaluated through



attribution of the final mark	appropriate questions included in the exams.
Additional information	