



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Scienze Umanistiche		
ACADEMIC YEAR	2023/2024		
BACHELOR'S DEGREE (BSC)	PHILOSOPHICAL AND HISTORICAL STUDIES		
SUBJECT	COMPUTING AND TELEMATICS SKILLS		
TYPE OF EDUCATIONAL ACTIVITY	F		
AMBIT	10799-Abilità informatiche e telematiche		
CODE	14116		
SCIENTIFIC SECTOR(S)			
HEAD PROFESSOR(S)	MAZZOLA GIUSEPPE	Ricercatore a tempo determinato	Univ. di PALERMO
OTHER PROFESSOR(S)			
CREDITS	3		
INDIVIDUAL STUDY (Hrs)	0		
COURSE ACTIVITY (Hrs)	25		
PROPAEDEUTICAL SUBJECTS			
MUTUALIZATION			
YEAR	3		
TERM (SEMESTER)	1° semester		
ATTENDANCE	Not mandatory		
EVALUATION	Pass/Fail		
TEACHER OFFICE HOURS	MAZZOLA GIUSEPPE Wednesday 10:00 - 13:00 Ex Dipartimento di Ingegneria Informatica, edificio 6, terzo piano		

DOCENTE: Prof. GIUSEPPE MAZZOLA

PREREQUISITES	None
LEARNING OUTCOMES	<p>Knowledge and understanding</p> <p>To understand how a PC works and recognize its structure</p> <p>To understand how to memorize and represent information.</p> <p>To know the main characteristics of an operating system</p> <p>To know basic information about computer networks and the web</p> <p>To understand and to know how to use the main tools for creating and managing multimedia content, based on Artificial Intelligence techniques</p> <p>Ability to apply knowledge and understanding</p> <p>Students will be able to apply the knowledge acquired to support and facilitate study and work activities, using the correct procedures for processing data or communicating information; they will be able to identify the most suitable technological resources for the purpose.</p> <p>Autonomy of judgment</p> <p>At the end of the course the students will be able to recognize new technologies as a valid support for study and profession, they must have acquired the ability to recognize, select and use the IT tools for data processing and access in an autonomous and conscious way. to information, computer and multimedia communication.</p> <p>Communication skills.</p> <p>To elaborate and represent contents effectively using IT tools (texts, tables, presentations, hypertexts).</p> <p>To develop skills in the research, acquisition, evaluation, selection and processing of information.</p> <p>To develop skills in communication and competent use of information</p> <p>Learning ability</p> <p>The learning ability will be developed through stimuli to make inferences and deepen the knowledge starting from the fundamental ones acquired. The use of guided exercises and questionnaires for self-assessment of results will facilitate self-learning.</p> <p>Students will be aware of the continuous evolution of computerized communication media and will be able, starting from the knowledge acquired, to identify ways to constantly update them.</p>
ASSESSMENT METHODS	<p>The assessment of learning (final exam) will consist of a practical test in the laboratory.</p> <p>The practical test will consist in processing one or more digital documents using the applications studied during the course and a multiple choice quiz. There are no ongoing tests.</p> <p>The evaluation will be expressed in terms of achievement of ability, with the following method:</p> <ul style="list-style-type: none">- ability achieved: sufficient knowledge of the topics. The student is able to apply the knowledge to solve the proposed problems.- ability not achieved: insufficient knowledge of the topics. The student is unable to apply the knowledge to solve the proposed problems.
EDUCATIONAL OBJECTIVES	<p>The course will provide a specific contribution to the aspect of computer and multimedia communication.</p> <p>The contents and activities provided aim at introducing students to the fundamentals of information technology and guiding them towards an aware use of information and multimedia technologies, through lectures and practical exercises.</p> <p>Specifically, it will aim to develop the knowledge and skills necessary to understand the functioning of a computer, use some applications for data processing, particularly those based on Artificial Intelligence techniques, whose use is a support for study and professional activities.</p>
TEACHING METHODS	<p>Lectures and practical exercises in the laboratory.</p> <p>The program is valid for students, attending, non-attending, and also Erasmus; the latter are also advised to contact the teacher for further clarifications.</p>
SUGGESTED BIBLIOGRAPHY	<p>Informatica di base. Con aggiornamento online. di A. Marengo, A. Pagano. McGraw-Hill Education</p>

SYLLABUS

Hrs	Frontal teaching
10	<p>The representation and storage of information.</p> <p>Structure and functioning of a computer (CPU, RAM memory, input / output devices, hardware supports).</p> <p>The functioning of an operating system and application programs.</p> <p>Computer networks, information transmission, TCP / IP protocol, connection technologies.</p> <p>Internet communication and web services. Browsers for navigation, the WWW, search engines and methods of accessing information, e-mail and telematic communication tools. Sharing. Data security and protection.</p>

Hrs	Practice
6	Use of tools based on Artificial Intelligence to generate and process texts
6	Use of tools based on Artificial Intelligence to generate and process images
3	Use of tools based on Artificial Intelligence to generate and process other multimedia content