Syllabus

Course Description

Course Title	Basic and Transversal IT skills
Course Code	82006
Course Title Additional	
Scientific-Disciplinary Sector	INFO-01/A
Language	Italian
Degree Course	University course for initial training of secondary school teachers in the Italian language - 60CP
Other Degree Courses (Loaned)	Training course 30 CP - Italian section
Lecturers	Prof. Rosella Gennari, Rosella.Gennari@unibz.it https://www.unibz.it/en/faculties/engineering/academic-staff/person/8607
Teaching Assistant	
Semester	Second semester
Course Year/s	1
CP	1
Teaching Hours	6
Lab Hours	0
Individual Study Hours	19
Planned Office Hours	0
Contents Summary	This training course aims to guide teachers in an exploration of computer science as a discipline and its applications in different contexts. It starts by exploring the founding conceptual ideas. The exposition is enriched by a brief historical excursus of figures who have contributed in different ways to the formation of the discipline. It continues with an overview of how, in recent years, computer science has radically transformed our society, showing the breadth

	of its fields, from artificial intelligence to person-centred design. Selecting some of these areas, the course then offers relevant and replicable case studies in the classroom. The activities part of the course will be differentiated by level and interest of the participant.
Course Topics	- Founding ideas of the discipline - Historical background - Fields of application - Case studies and methodological insights
Keywords	Founding conceptual ideas of computer science, Societal implications, Case studies
Recommended Prerequisites	None
Propaedeutic Courses	
Teaching Format	Lectures, production and analysis of materials
Mandatory Attendance	In accordance with the regulation
Specific Educational Objectives and Learning Outcomes	The course belongs to the basic learning area - computer science disciplines. The course aims to foster the acquisition of basic and transversal computer skills, contextualising them in the context of the evolution of the discipline and its diversity of fields of study and application. Disciplinary skills Knowledge and understanding - To recognise the founding ideas - To have knowledge of the different areas of the discipline Transversal/soft skills Autonomy of judgement - Select and critically evaluate teaching resources for computer science Communication skills - Be able to describe the founding ideas of the discipline - Communicate the diversity of fields of application and study of the discipline
Specific Educational Objectives and Learning	

Outcomes (additional info.)	
Assessment	Written - multiple choice and/or open-ended questions (knowledge and understanding, ability to apply knowledge and understanding)
Evaluation Criteria	Assignment of a single final mark. The following are considered and evaluated: correctness of the answer, relevance, logical structure, clarity of argumentation, formal correctness.
Required Readings	Materials presented during the course.
Supplementary Readings	Materials presented during the course.
Further Information	The course will be offered in person in Bolzano
Sustainable Development Goals (SDGs)	Industry, innovation and infrastructure, Quality education