

SYLLABUS COURSE DESCRIPTION – ACADEMIC YEAR 2024/2025

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Course title	Web and Internet Engineering with Project
Course code	76447
Scientific sector	INF/01
Degree	Bachelor Informatics and Management (L-31)
Semester	2 1
Year Credits	6
Modular	No
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Total lecturing hours	30
Total lab hours	20
Attendance	Not compulsory, but recommended
Prerequisites	Knowledge of at least one programming language
Course page	https://ole.unibz.it/
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Specific educational objectives	The course belongs to the type "attività formative caratterizzanti – discipline informatiche".
	It deals with the design and development of web-based applications providing practical knowledge and skills required for designing and building them. The principles for the design and development of the client-side and server-side parts of an application will be illustrated.
Lecturer	Markus Zanker
Contact	Office B1.3.23, Faculty of Engineering, NOI Techpark, Via Bruno Buozzi 1, markus.zanker@unibz.it, +39 0471 016977
Scientific sector of lecturer	INF/01
Teaching language	German
Office hours	To be announced in OLE, prior appointment by email, Faculty of Engineering.
Lecturing Assistant (if any)	TBD
Contact LA	TBD
Office hours LA	To be announced in OLE, prior appointment by email
List of topics	 Development of web applications: basics of usability, accessibility and responsive design Web protocols and markup languages Client-side dynamicity and web scripting languages Client-side GUI frameworks Basics of web application design and server-side web development
Teaching format	LecturesSmall exercises and regular assignmentsWork in teams

Learning outcomes	Knowledge and understanding:	



Cc	 D1.3 - Know the basic principles of programming. D1.8 - Know the basics of designing and building web applications. Oplying knowledge and understanding: D2.2 - Ability to solve algorithmic problems using programming methods. D2.8 - Ability to develop applications in the web area. D2.17 - Know how to manage small projects for the development of information systems and how coordinate small working groups. Ommunication skills D4.4 - Ability to structure and prepare technical documentation D4.5 - Ability to collaborate in interdisciplinary teams to achieve IT objectives. Parning skills D5.3 - Ability to follow rapid technological developments and to learn about innovative aspects of the latest generation of information technology and systems.
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Assessment	The assignments aim at ensuring a continuous interaction with the course content and will be assessed according to correctness and completeness. The project activity aims at assessing how students approach the development of a web-based application and how they interact with each other in order to achieve a common goal. The written exam assesses the acquisition and the understanding of the theoretical knowledge presented during lectures.
Assessment language	German
Assessment Typology	Monocratic
Evaluation criteria and criteria for awarding marks	Written exam [50%], assignments [25%] and a project [25%]. The project and the assignments are valid for the 3 regular exam sessions within the same academic year. Assignments need to be submitted during the course of the semester, the project can be presented before the written exam of the first exam session or during one of the following 2 regular exam sessions. More details will be given during the lectures and in the OLE course.

Required readings	Lecture materials at the course page in OLE.
Supplementary readings	Links to mainly online resources will be provided in the OLE course.
Software used	 HTML5 and CSS JavaScript, PHP and Python Apache, Tomcat and NGINX