

## COURSE DESCRIPTION – ACADEMIC YEAR 2024/2025

<b>Course title</b>	<b>Software Project Management</b>
<b>Course code</b>	76425
<b>Scientific sector</b>	INF/01
<b>Degree</b>	Bachelor in Informatics and Management of Digital Business (L-31)
<b>Semester</b>	2
<b>Year</b>	3
<b>Credits</b>	6
<b>Modular</b>	No
<b>Total lecturing hours</b>	30
<b>Total lab hours</b>	30
<b>Attendance</b>	Attendance is not compulsory, but non-attending students are suggested to contact the lecturer at the start of the course to agree on the modalities of the independent study.
<b>Prerequisites</b>	Basic knowledge of software development processes and activities
<b>Course page</b>	MS Teams of the course
<b>Specific educational objectives</b>	<p>The course belongs to the type "attività formative caratterizzanti – informatica".</p> <p>The course intends to provide the students with an in-depth understanding of the unique characteristics of software and software projects, and equip them with adequate mentality and knowledge to manage software projects effectively.</p>
<b>Lecturer</b>	<a href="#">Xiaofeng Wang</a>
<b>Contact</b>	SER I, Palazzo Ex.Dogana, Office 1.07, <a href="mailto:xiaofeng.wang@unibz.it">xiaofeng.wang@unibz.it</a> , +39 0471 016181
<b>Scientific sector of lecturer</b>	INF/01
<b>Teaching language</b>	English
<b>Office hours</b>	During the semester time span, Fridays 13:00 - 15:00, arrange beforehand by email.
<b>Lecturing Assistant (if any)</b>	TBD
<b>Contact LA</b>	TBD
<b>Office hours LA</b>	TBD
<b>List of topics</b>	<p>The students will learn the following topics based on the understanding of the difference between two major software project management paradigms: Plan-driven vs. Agile:</p> <ul style="list-style-type: none"> <li>● Project Planning</li> <li>● Team Building and Management</li> <li>● Competitive Bidding and Client Interaction</li> <li>● Risk Analysis and Management</li> <li>● Quality Assurance - Monitoring and Evaluation</li> <li>● Budgeting and Cost Control</li> </ul>

<p><b>Teaching format</b></p>	<p>Frontal lectures and team projects</p>
<p><b>Learning outcomes</b></p>	<p>Knowledge and understanding:</p> <ul style="list-style-type: none"> <li>• D1.18 - Understand the interdisciplinary approach to IT projects that takes into account technical foundations, business needs, social and dynamic aspects and the regulatory framework.</li> </ul> <p>Applying knowledge and understanding:</p> <ul style="list-style-type: none"> <li>• D2.3 - Ability to analyse business problems and to develop proposals for solutions with the help of IT tools.</li> <li>• D2.4 - Ability to formalise and to analyse procedures and operational processes, to recognise and use optimisation potentials.</li> <li>• D2.5 - Selective skills for the introduction, adaptation and maintenance of standard operating software and other IT solutions.</li> <li>• D2.10 - IT infrastructure and project management capabilities.</li> <li>• D2.18 - Know how to communicate with the client in written and oral form on a professional level in English, Italian and German.</li> </ul> <p>Making judgements</p> <ul style="list-style-type: none"> <li>• D3.2 - Be able to work independently according to your level of knowledge and understanding, also taking responsibility for development projects or IT consulting.</li> </ul> <p>Communication skills</p> <ul style="list-style-type: none"> <li>• D4.4 - Ability to structure and prepare technical documentation.</li> <li>• D4.5 - Ability to collaborate in interdisciplinary teams to achieve IT objectives.</li> </ul> <p>Learning skills</p> <ul style="list-style-type: none"> <li>• D5.2 - Learning ability to carry out strategic and IT project activities in corporate communities, also distributed.</li> <li>• D5.3 - Ability to follow rapid technological developments and to learn about innovative aspects of the latest generation of information technology and systems.</li> </ul>
<p><b>Assessment</b></p>	<p><b>Exam type for regularly attending students:</b></p> <ul style="list-style-type: none"> <li>• Project work (50% of the final mark): a good demonstration of applying various software project management concepts and techniques taught in the course (team score);</li> <li>• Written exam (50% of the final mark): to test the understanding of theories and knowledge application skills, and verification of project results (individual score).</li> </ul> <p>Note: Positive project result is necessary to attend the written exam. Both parts of the results must be positive to pass the exam. In case of a positive mark, the project will count for all 3 regular exam sessions.</p>

	<p><b>Exam type for non-attending students:</b></p> <ul style="list-style-type: none"> <li>• Written report on a piece of research related to software project management (agreed upon with the lecturer at the beginning of the course) (70% of the final mark);</li> <li>• Oral exam to test the understanding of theories and verification of written report (30% of the final mark).</li> </ul> <p>Note: Positive written result is necessary to attend the oral exam. Both parts of the results must be positive to pass the exam. In case of a positive mark, the written result will count for all 3 regular exam sessions.</p>
<p><b>Assessment language</b></p>	<p>English</p>
<p><b>Assessment Typology</b></p>	<p>Monocratic</p>
<p><b>Evaluation criteria and criteria for awarding marks</b></p>	<p><b>For regularly attending students:</b></p> <p>Evaluation criteria for project work:</p> <ul style="list-style-type: none"> <li>• effective application of software project management concepts and techniques</li> <li>• good teamwork</li> <li>• good quality of project output</li> </ul> <p>Evaluation criteria for written exam:</p> <ul style="list-style-type: none"> <li>• ability to elaborate, summarize, evaluate, and make connections between various topics</li> <li>• clarity of answers</li> </ul> <p><b>For non-attending students:</b></p> <p>Evaluation criteria for written report:</p> <ul style="list-style-type: none"> <li>• good understanding of the literature</li> <li>• clarity of the study method</li> <li>• convincing research results</li> </ul> <p>Evaluation criteria for oral exam:</p> <ul style="list-style-type: none"> <li>• ability to elaborate, summarize, evaluate, and make connections between various topics</li> <li>• clarity of answers</li> </ul>
<p><b>Required readings</b></p>	<ul style="list-style-type: none"> <li>• Highsmith, Jim. Agile Project Management: creating innovative products, 2004</li> </ul>

	Subject Librarian: David Gebhardi, <a href="mailto:David.Gebhardi@unibz.it">David.Gebhardi@unibz.it</a>
<b>Supplementary readings</b>	<ul style="list-style-type: none"><li>Henry, Joel. Software Project Management : A Real-World Guide to Success, 2004</li></ul>
<b>Software used</b>	Based on types of projects, decided by project teams  Communicate needed software and technical requirements in advance to <a href="mailto:cs-tech@inf.unibz.it">cs-tech@inf.unibz.it</a>