

# Syllabus

## *Descrizione corso*

<b>Titolo insegnamento</b>	Software Project Management
<b>Codice insegnamento</b>	76443
<b>Titolo aggiuntivo</b>	
<b>Settore Scientifico-Disciplinare</b>	INFO-01/A
<b>Lingua</b>	Inglese
<b>Corso di Studio</b>	Corso di laurea in Informatica e Management delle Aziende digitali
<b>Altri Corsi di Studio (mutuati)</b>	
<b>Docenti</b>	dr. Xiaozhou Li, Xiaozhou.Li@unibz.it <a href="https://www.unibz.it/en/faculties/engineering/academic-staff/person/51393">https://www.unibz.it/en/faculties/engineering/academic-staff/person/51393</a> dr. Madalina Georgeta Ciobanu, MadalinaGeorgeta.Ciobanu@unibz.it <a href="https://www.unibz.it/en/faculties/engineering/academic-staff/person/52834">https://www.unibz.it/en/faculties/engineering/academic-staff/person/52834</a>
<b>Assistente</b>	
<b>Semestre</b>	Secondo semestre
<b>Anno/i di corso</b>	3
<b>CFU</b>	5
<b>Ore didattica frontale</b>	20
<b>Ore di laboratorio</b>	30
<b>Ore di studio individuale</b>	75
<b>Ore di ricevimento previste</b>	
<b>Sintesi contenuti</b>	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: <ul style="list-style-type: none"><li>· Project Planning</li><li>· Team Building and Management</li></ul>

	<ul style="list-style-type: none"> <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>
<b>Argomenti dell'insegnamento</b>	Software Project Management is the backbone of successful tech innovation. Mastering it means gaining the power to turn ideas into impactful, real-world solutions. It's not just about managing code — it's about leading teams, meeting deadlines, and delivering value. By studying this subject, students can position themselves as a leader ready to take on challenges and drive change. Don't just build software — learn to guide its journey from vision to reality, embrace the challenge, and lead with purpose.
<b>Parole chiave</b>	software project, project planning, risk management, quality assurance
<b>Prerequisiti</b>	Basic knowledge of software development processes and activities.
<b>Insegnamenti propedeutici</b>	
<b>Modalità di insegnamento</b>	Frontal lectures and team projects.
<b>Obbligo di frequenza</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>Obiettivi formativi specifici e risultati di apprendimento attesi</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> <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</li> </ul>

	<p>maintenance of standard operating software and other IT solutions.</p> <ul style="list-style-type: none"> <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>
<b>Obiettivi formativi specifici e risultati di apprendimento attesi (ulteriori info.)</b>	
<b>Modalità di esame</b>	<p>Exam type for regularly attending students:</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>Exam type for non-attending students:</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</li> </ul>

	<p>beginning of the course) (70% of the final mark);</p> <ul style="list-style-type: none"> <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>
<b>Criteri di valutazione</b>	<p>For regularly attending students:</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>For non-attending students:</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>
<b>Bibliografia obbligatoria</b>	<p>Highsmith, Jim. Agile Project Management: creating innovative products, 2nd Edition 2009</p> <p>Subject Librarian: David Gebhardi, <a href="mailto:David.Gebhardi@unibz.it">David.Gebhardi@unibz.it</a></p>
<b>Bibliografia facoltativa</b>	<p>Henry, Joel. Software Project Management : A Real-World Guide to Success, 2004</p>
<b>Altre informazioni</b>	<p>Software used: Based on types of projects, decided by project teams</p>
<b>Obiettivi di Sviluppo</b>	<p>Istruzione di qualità</p>

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