

Syllabus

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| Titul dl curs | Software Project Management |
| Codesc dl curs | 76443 |
| Titul suplementar | |
| SSD | INFO-01/A |
| Lingaz | Inglese |
| Curs de laurea | Corso di laurea in Informatica e Management delle Aziende digitali |
| D'autri cursc de laurea (cursc deberieda) | |
| Dozenc | dr. Xiaozhou Li, Xiaozhou.Li@unibz.it https://www.unibz.it/en/faculties/engineering/academic-staff/person/51393 dr. Madalina Georgeta Ciobanu, MadalinaGeorgeta.Ciobanu@unibz.it https://www.unibz.it/en/faculties/engineering/academic-staff/person/52834 |
| Assistent didatich | |
| Semester | Secondo semestre |
| Ann/Agn de stude | 3 |
| Credic universitars | 5 |
| Ores de insegnament | 20 |
| Ores de laboratore | 30 |
| Ores de stude individual | 75 |
| Ores de riceviment prevedudes | |
| Ressum  di contegnus | 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">   Project Planning   Team Building and Management |

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| | <ul style="list-style-type: none"> ¿ Competitive Bidding and Client Interaction ¿ Risk Analysis and Management ¿ Quality Assurance - Monitoring and Evaluation ¿ Budgeting and Cost Control |
| Argomenc dl curs | 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. |
| Paroles clef | software project, project planning, risk management, quality assurance |
| Prerequisic aconsiés | Basic knowledge of software development processes and activities. |
| Cursc propedeutics | |
| Modalité de insegnament | Frontal lectures and team projects. |
| Oblianza de frecuencia | 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. |
| Obietifs formatifs y competenzes da arjonje | <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"> ¿ 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. <p>Applying knowledge and understanding:</p> <ul style="list-style-type: none"> ¿ D2.3 - Ability to analyse business problems and to develop proposals for solutions with the help of IT tools. ¿ D2.4 - Ability to formalise and to analyse procedures and operational processes, to recognise and use optimisation potentials. ¿ D2.5 - Selective skills for the introduction, adaptation and |

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| | <p>maintenance of standard operating software and other IT solutions.</p> <p>¿ D2.10 - IT infrastructure and project management capabilities.</p> <p>¿ D2.18 - Know how to communicate with the client in written and oral form on a professional level in English, Italian and German.</p> <p>Making judgements</p> <p>¿ D3.2 - Be able to work independently according to your level of knowledge and understanding, also taking responsibility for development projects or IT consulting.</p> <p>Communication skills</p> <p>¿ D4.4 - Ability to structure and prepare technical documentation.</p> <p>¿ D4.5 - Ability to collaborate in interdisciplinary teams to achieve IT objectives.</p> <p>Learning skills</p> <p>¿ D5.2 - Learning ability to carry out strategic and IT project activities in corporate communities, also distributed.</p> <p>¿ D5.3 - Ability to follow rapid technological developments and to learn about innovative aspects of the latest generation of information technology and systems.</p> |
| <p>Obietifs formatifs y competenzes da arjonje (informazions suplementares)</p> | |
| <p>Sort de ejam</p> | <p>Exam type for regularly attending students:</p> <ul style="list-style-type: none"> • 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); • Written exam (50% of the final mark): to test the understanding of theories and knowledge application skills, and verification of project results (individual score). <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"> • Written report on a piece of research related to software |

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| | <p>project management (agreed upon with the lecturer at the beginning of the course) (70% of the final mark);</p> <ul style="list-style-type: none"> • Oral exam to test the understanding of theories and verification of written report (30% of the final mark). <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> |
| Criters de valutazion | <p>For regularly attending students:</p> <p>Evaluation criteria for project work:</p> <ul style="list-style-type: none"> • effective application of software project management concepts and techniques • good teamwork • good quality of project output <p>Evaluation criteria for written exam:</p> <ul style="list-style-type: none"> • ability to elaborate, summarize, evaluate, and make connections between various topics • clarity of answers <p>For non-attending students:</p> <p>Evaluation criteria for written report:</p> <ul style="list-style-type: none"> • good understanding of the literature • clarity of the study method • convincing research results <p>Evaluation criteria for oral exam:</p> <ul style="list-style-type: none"> • ability to elaborate, summarize, evaluate, and make connections between various topics • clarity of answers |
| Bibliografia obligatora | <p>Highsmith, Jim. Agile Project Management: creating innovative products, 2nd Edition 2009</p> <p>Subject Librarian: David Gebhardi, David.Gebhardi@unibz.it</p> |
| Bibliografia aconsieda | <p>Henry, Joel. Software Project Management : A Real-World Guide to Success, 2004</p> |
| Deplù informazioms | <p>Software used: Based on types of projects, decided by project teams</p> |

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| OSS | Istruzione di qualità |
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