Syllabus

Descrizione corso

Titolo insegnamento	Software Project Management
Codice insegnamento	76443
Titolo aggiuntivo	
Settore Scientifico-Disciplinare	INF/01
Lingua	Inglese
Corso di Studio	Corso di laurea in Informatica e Management delle Aziende digitali
Altri Corsi di Studio (mutuati)	
Docenti	prof. Xiaofeng Wang, Xiaofeng.Wang@unibz.it https://www.unibz.it/en/faculties/engineering/academic-staff/person/31445 dr. Xiaozhou Li, Xiaozhou.Li@unibz.it https://www.unibz.it/en/faculties/engineering/academic-staff/person/51393
Assistente	
Semestre	Secondo semestre
Anno/i di corso	3
CFU	5
Ore didattica frontale	20
Ore di laboratorio	30
Ore di studio individuale	75
Ore di ricevimento previste	
Sintesi contenuti	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: ¿ Project Planning ¿ Team Building and Management

	¿ Competitive Bidding and Client Interaction ¿ Risk Analysis and Management ¿ Quality Assurance - Monitoring and Evaluation ¿ Budgeting and Cost Control
Argomenti dell'insegnamento	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.
Parole chiave	software project, project planning, risk management, quality assurance
Prerequisiti	Basic knowledge of software development processes and activities.
Insegnamenti propedeutici	
Modalità di insegnamento	Frontal lectures and team projects.
Obbligo di frequenza	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.
Obiettivi formativi specifici e risultati di apprendimento attesi	The course belongs to the type "attività formative caratterizzanti – informatica". 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. Knowledge and understanding: ¿ 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. Applying knowledge and understanding: ¿ 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

	maintenance of standard operating software and other IT solutions.
	¿ D2.10 - IT infrastructure and project management capabilities.
	¿ D2.18 - Know how to communicate with the client in written and oral form on a professional level in English, Italian and German.
	Making judgements
	¿ D3.2 - Be able to work independently according to your level of knowledge and understanding, also taking responsibility for development projects or IT consulting.
	Communication skills
	¿ D4.4 - Ability to structure and prepare technical documentation.
	¿ D4.5 - Ability to collaborate in interdisciplinary teams to achieve IT objectives.
	Learning skills
	¿ D5.2 - Learning ability to carry out strategic and IT project activities in corporate communities, also distributed.
	¿ D5.3 - Ability to follow rapid technological developments and to learn about innovative aspects of the latest generation of information technology and systems.
Obiettivi formativi specifici e risultati di apprendimento attesi (ulteriori info.)	
Modalità di esame	Exam type for regularly attending students:
	• 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).
	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.
	Exam type for non-attending students:
	• 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); • Oral exam to test the understanding of theories and verification of written report (30% of the final mark). 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.
Criteri di valutazione	For regularly attending students: Evaluation criteria for project work: • effective application of software project management concepts and techniques • good teamwork • good quality of project output Evaluation criteria for written exam: • ability to elaborate, summarize, evaluate, and make connections between various topics • clarity of answers For non-attending students: Evaluation criteria for written report: • good understanding of the literature • clarity of the study method • convincing research results Evaluation criteria for oral exam: • ability to elaborate, summarize, evaluate, and make connections between various topics • clarity of answers
Bibliografia obbligatoria	Highsmith, Jim. Agile Project Managment: creating innovative products, 2004 Subject Librarian: David Gebhardi, David.Gebhardi@unibz.it
Bibliografia facoltativa	Henry, Joel. Software Project Management : A Real-World Guide to Success, 2004
Altre informazioni	Software used: Based on types of projects, decided by project teams
Obiettivi di Sviluppo	Istruzione di qualità

Sostenibile (SDGs)	