



UNIVERSITÀ DI PAVIA

Anno Accademico 2019/2020

SOFTWARE ENGINEERING

Anno immatricolazione	2018/2019
Anno offerta	2019/2020
Normativa	DM270
SSD	ING-INF/05 (SISTEMI DI ELABORAZIONE DELLE INFORMAZIONI)
Dipartimento	DIPARTIMENTO DI INGEGNERIA INDUSTRIALE E DELL'INFORMAZIONE
Corso di studio	COMPUTER ENGINEERING
Curriculum	Embedded and Control Systems
Anno di corso	2°
Periodo didattico	Primo Semestre (30/09/2019 - 20/01/2020)
Crediti	6
Ore	45 ore di attività frontale
Lingua insegnamento	English
Tipo esame	SCRITTO
Docente	MERLINI SIMONE (titolare) - 4 CFU MARCHESI NICOLO' - 2 CFU
Prerequisiti	Fundamentals of web-based programming. Fundamentals of distributed systems.
Obiettivi formativi	<ul style="list-style-type: none">- Software requirements management and analysis processes- Software Design techniques- Enterprise Software Architectures- Software Metrics and Software Quality Processes
Programma e contenuti	<ul style="list-style-type: none">- Software processes- Requirements engineering- Architectural design- Design and implementation- Software testing- Distributed software engineering

	- Service-oriented architectures
Metodi didattici	Lectures (hours/year in lecture theatre): 19 Practical class (hours/year in lecture theatre): 20 Practicals / Workshops (hours/year in lecture theatre): 6
Testi di riferimento	<p>Steve McConnell (ISBN-10: 0735619670)?Code Complete: A Practical Handbook of Software Construction</p> <p>Roger Pressman (ISBN-10: 0073375977)?Software Engineering: A Practitioner's Approach</p> <p>Ian Sommerville (ISBN-10: 0137035152)?Software Engineering</p> <p>Robert C.Martin (ISBN-10: 0134494164) Clean Architecture: A Craftsman's Guide to Software Structure and Design</p> <p>Robert C.Martin (ISBN-10: 9780132350884) ? The Clean Coder: A Code of Conduct for Professional Programmers</p> <p>Kent Beck (ISBN-10: 9780321146533)? Test Driven Development: By Example?</p> <p>Martin Fowler's Blog - https://martinfowler.com</p> <p>Robert C.Martin's Blog - https://blog.cleancoder.com/</p>
Modalità verifica apprendimento	Each student is required to prepare a group web-based distributed project. The project will show a strong command of object orientation and design principles covered during the course. The project will be carried out along the course and finally discussed during the exam.
Altre informazioni	Course web page: http://www.simonemerlini.it
Obiettivi Agenda 2030 per lo sviluppo sostenibile	\$lbl legenda sviluppo sostenibile