



UNIVERSITÀ DI PAVIA

Anno Accademico 2018/2019

SOFTWARE ENGINEERING

Anno immatricolazione	2018/2019
Anno offerta	2018/2019
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	1°
Periodo didattico	Primo Semestre (01/10/2018 - 18/01/2019)
Crediti	6
Ore	45 ore di attività frontale
Lingua insegnamento	English
Tipo esame	SCRITTO E ORALE CONGIUNTI
Docente	MERLINI SIMONE (titolare) - 2 CFU GAGGIA ALESSANDRO - 2 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

	<ul style="list-style-type: none"> - Distributed software engineering - Service-oriented architectures
Metodi didattici	<p>Lectures (hours/year in lecture theatre): 19 Practical class (hours/year in lecture theatre): 20 Practicals / Workshops (hours/year in lecture theatre): 6</p>
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	<p>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.</p>
Altre informazioni	<p>Course web page: http://www.simonemerlini.it</p>
Obiettivi Agenda 2030 per lo sviluppo sostenibile	<p>\$lbl legenda sviluppo sostenibile</p>