UNIVERSITÀ DI PAVIA

Anno Accademico 2018/2019

SOFTWARE PROJECT MANAGEMENT

Anno immatricolazione	2017/2018
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	PERCORSO COMUNE
Anno di corso	2°
Periodo didattico	Secondo Semestre (06/03/2019 - 14/06/2019)
Crediti	3
Ore	23 ore di attività frontale
Lingua insegnamento	English
Tipo esame	SCRITTO E ORALE CONGIUNTI
Docente	MOTTA GIANMARIO PIERO ANTONIO (titolare) - 3 CFU
Prerequisiti	Software Project Management belongs to the wider knowledge body of the general Project Management (PM). Specifically: -PM addresses (a) the concept of project contents and structure, and (b) the governance of the projects itself in terms of cost, quality, risk, human resources, etc. -Software Project Management (SPM) relies on specific government methodologies that reflect the characteristics of the project product, i.e. software. The course, based on PMI's (Project Management Institute) international standards, addresses both enterprise and research software projects, and targets the Engineering graduate students, specifically, not solely, Computer and Electronic Engineers.
Obiettivi formativi	The course intends to provide students the ability of

	- defining project scope and structure, - developing project plan, - assessing project risk and business impact, - identifying related software development approaches – e.g. agile, waterfall, fit-gap. etc. Hence, the course includes, together with lectures, a team project work where students will implement the model and techniques illustrated in the course
Programma e contenuti	The course includes 2 parts, respectively focusing on project foundations and methodology Part 1: Introduction - General and software project management references: PMBOK and AGILE - Software project types: enterprise and research projects - Illustration of the case study Part 2: Steps of project management - Step 1: Scoping: define project objective and related system requirements - Step 2: Scoping: Structure the project (Project Breakdown Structures) - Step 3: Scoping: Plan the project: Gantt diagram, Work Packages, Milestones - Step 4: Assess project risk - Step 5: Assess economic impact and business case - Step 6: Manage development activities: waterfall, fit-gap, scrum
Metodi didattici	Learning relies on a stimulus - reinforcement cycle where: - Professor illustrates project management foundations and simple cases - Business testimonials illustrate the issues in the real world - Students develop a project book for the assigned case study and perform related presentations
Testi di riferimento	-A Guide to the Project Management Body of Knowledge, Project Management Institute, 6th edition, 2017 -Agile Practice Guide, Project Management Institute, 2017 -Course material provided by the teacher
Modalità verifica apprendimento	The exam includes a test on foundations , with a 1/3 weight, and a project work, with a 2/3 weight. Specifically: - The test measures the comprehension of course foundations, through a series of open questions - The project work measures the ability of implementing foundations on a real world case study; it includes both team and individual sections
Altre informazioni	
Obiettivi Agenda 2030 per lo sviluppo sostenibile	Gli obiettivi