Module level Code	Software Engineering Undergraduate IF221121		
Code	3		
	IFZZ11Z1		
	Software Engineering		
applicable)			
	4		
	Yisti Vita Via, S.ST, M.Kom (PIC)		
	Achmad Junaidi, S.Kom, M.Kom		
	Budi Nugroho, S.Kom, M.Kom		
	Hendra Maulana, S.Kom, M.Kom		
	Pratama Wirya Atmaja, S.Kom, M.Kom		
	Bahasa Indonesia and English		
	Undergraduate degree program; compulsory; 4th semester		
curriculum	ondergraduate degree program, compaisory, 4th semester		
	Lectures, < 60 students,		
contact hours	Lectures, < 60 students,		
	Simulation, collaboration, cooperative learning, case-study, pr	oiect-based	
•	learning, and problem-based learning	Oject-baseu	
	1. Lectures: 3 sks x 50 = 150 minutes (2 hours 30 minutes) per	wook	
	2. Exercises and Assignments: 3 x 60 = 180 minutes (3 hours) per		
	3. Private study: 3 x 60 = 180 minutes (3 hours) per week	der week.	
	3 credit points (sks)		
,	A student must have attended at least 80% of the lectures to s	it in the	
	exams.	sit iii tile	
examination	exams.		
regulations			
	Advanced Programming		
prerequisites	Advanced Frogramming		
· · · · · · · · · · · · · · · · · · ·	In this course students will learn about the concepts and mod	tals of software	
description	engineering, the role of personnel in the development of software engineering and arranging software planning proposal that consist of requirement		
	analysis, planning, implementation, and software testing.		
	After completing this module, a student is expected to:		
_	CO1 Students are able to explain the concepts and process of	PLO4,PLO5,	
	software planning.	PLO7, PLO9,	
corresponding	6	PLO10	
	CO2 Students are able to analyze the problems that is able to	PLO4,PLO5,	
	be solved through the creation of a software.	PLO7, PLO9,	
		PLO10	
	CO3 Students are able to communicate without any problems	PLO4,PLO5,	
	between developer personnel.	PLO7, PLO9,	
		PLO10	
	CO4 Students are able to arrange a software development	PLO4,PLO5,	
	project proposal.	PLO7, PLO9,	
	1 7 F - F	PLO10	
	CO5 Students are Able to design a system according to the	PLO4,PLO5,	
	results of requirements analysis and create software testing	PLO7, PLO9,	
	scenarios.	PLO10	
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	The material studied by students in this course includes: Ba	sic Concepts in	

	Development Processes, and the use of tools in project management. It covers project planning and cost estimation techniques, feasibility studies, Software Development Life Cycle (SDLC) models, System Engineering, Software Requirement Specification (SRS), principles and templates for SRS, software project requirements, Unified Modeling Language (UML), Data Flow Diagram (DFD), Software Testing & Implementation, and project documentation according to process models and case studies.	
Media employed	LCD, whiteboard, websites, books (as references), online meeting, etc.	
Assessments and Evaluation	One written Midterm assessment (60 minutes) and one final oral exam (30 minutes), two short computer-based quizzes, takehome written assignments	
Study and	The final grade in the module is composed of:	
examination	• Two short computer-based quizzes: 15% x 2 = 30%	
requirements	• Take-home written assignments : 15%	
and forms of	Written Midterm assessment: 25%	
examination	• Final oral exam: 30%	
	Students must have a final grade of 55.6% or higher to pass.	
Reading List	Roger S. Pressman, Software Engineering, 8th edition, McGraw-Hill, 2014.	
	P. Bourque and R.E. Fairley, eds., Guide to the Software Engineering Body	
	of Knowledge, Version 3.0, IEEE Computer Society, 2014.	
	 Ian Sommerville, Software Engineering, 9th edition, Pearson, 2010. 	
	 Computing and Information Science, Software Engineering Slides, Cornell University, 2009. 	