UNDERGRADUATE PROGRAM IN COMPUTER SCIENCE
DEPARTMENT OF COMPUTER ENGINEERING
FACULTY OF INTELLIGENT ELECTRICAL AND INFORMATICS TECHNOLOGY

Module name	**Software Engineering**	
Module level	Undergraduate	
Code	EC184401	
Courses (if applicable)	Software Engineering	
Semester	4 / Spring (Genap)	
Contact person	Dr. I Ketut Eddy Purnama, S.T, M.T.	
Lecturer	Dr. I Ketut Eddy Purnama, S.T, M.T.	
Language	Indonesia	
Relation to curriculum	Undergraduate degree program, mandatory, 4th semester.	
Type of teaching, contact hours	Lecture, < 60 students, 170 MENIT * SKS	
Workload	1. Lectures: 2 x 50 = 100 minutes (1.67 hours) per week. 2. Exercises and Assignments: 2 x 60 = 120 minutes (2 hours) per week. 3. Private study: 2 x 60 = 120 minutes (2 hours) per week.	
Credit points	2 credit points (sks).	
Requirements according to the examination regulations	A student must have attended at least 75% of the lectures to sit in the exams.	
Mandatory prerequisites		
Learning outcomes and their corresponding PLOs	CLO-1 Students are able to recognize and explain the process of system analysis	PLO-3 PLO-4
	CLO-2 Students are able to explain the technique of system design.	PLO-3 PLO-4
	CLO-3 Students are able to describe the steps of creating a system.	PLO-3 PLO-4
	CLO-4 Students are able to solve system problems with Unified Modeling Language	PLO-5
	CLO-5 Students are able to select and design a network-based system	PLO-6
Content	In this course, students will study how the system problem is analyzed, then designed and engineered. Topics that will be studied include: the history and development of system design including: System Context Diagram, System Flow, System Specification, System Data Dictionary, and Unified Modeling Language, Steps for system building, and system architecture design.	

Study and examination requirements and forms of examination	• In-class exercises • Quiz 1 and 2 • Assignment 1, 2, 3 • Mid-term examination • Final examination
Media employed	LCD, whiteboard, websites (myITS Classroom).
Assessments and Evaluation	CO-1: Question no 1 in midterm exam (15%) CO-2: Question no 2 in midterm exam (15%) CO-3: Question no 3 in midterm exam (15%), quiz 1 (5%) CO-4: Assignment 1 (5%), question no 4 in midterm exam (15%), Quiz 2 (5%) CO-5: Question no 1 in final exam (15%), question no 2 in final exam (15%)
Reading List	1. Mike O'Docherty, Object-Oriented Analysis and Design: Understanding System Development with UML 2.0, John Wiley & Sons 2. Roger S. Pressman, Software Engineering: A Practitioner's Approach, 5th ed, McGrawHill