



UNIVERSITAS MATARAM
(University of Mataram)
FAKULTAS TEKNIK
(Faculty of Engineering)
PROGRAM STUDI TEKNIK INFORMATIKA
(Bachelor of Informatics Engineering)

MODULE HANDBOOK DESCRIPTION

Module designation	Software Engineering (W22B44)	
Semester(s) in which the module is taught	4 / <i>second year</i>	
Person responsible for the module	<i>Ir. Sri Endang Anjarwani, M.Kom</i>	
Language	<i>Indonesian</i>	
Relation to curriculum	<i>Compulsory</i>	
Teaching methods	<i>group discussions and presentation, case-based problems, Project based, lectures</i>	
Workload (incl. contact hours, self-study hours)	Contact Hours every week, each week of the 16 weeks/semester including Evaluation <ul style="list-style-type: none"> ● 3 x 50 minutes lecturer/week ● 3 x 60 minutes class exercise/week ● Self Study hours= 180 minutes/week Total workload 510 minutes/week	
Credit points	3 (~ 4,8 ECTS)	
Required and recommended prerequisites for joining the module	Software Engineering	
Module objectives/intended learning outcomes	1. Define and describe the characteristics and components of a software application by using several stages of Software creation/development for troubleshooting	PLO2: 25%

	2. Define and explain the software project management process, analyze software needs according to the concepts and principles of analysis	PLO2, PLO4, PLO9: 25%
	3. Define and explain the software project management process, analyze software needs according to the concepts and principles of analysis	PLO2, PLO4, PLO9: 50%
Content	The subject matter of Software engineering is Introduction, the basic concepts of software engineering, Software Development Paradigms / Methods, Software Project Planning, Basics of Analytical Techniques, Analytical Modeling, Design Principles and Methods, and Software development engineering	
Examination forms	<i>Assignments, Quiz, Simulation, Problem solving</i>	
Study and examination requirements	<i>Discussion 15%, Project 35%, Quis 30% Problem solving 20%</i>	
Reading list	<ol style="list-style-type: none"> 1. Roger S. Pressman, "Software Engineering ;A Practitioner's Approach", McGraw-Hill 2. Al-Bahra Bin Ladjamudin, 2006, Rekayasa Perangkat Lunak, Graha Ilmu, Yogyakarta 3. Abraham Silberschatz, Henry F. Korth, S. Sudarshan, 2006. Database System Concepts, McGraw-Hill Higher Education 	