MODULE HANDBOOK

Master Program in Computer Science Department of Computer Science and Electronics Faculty of Mathematics and Natural Sciences Universitas Gadjah Mada

Software Quality Assurance

Module name	Software Quality Assurance			
Module level	Master			
Code	MII-			
Courses (if applicable)				
Semester	Even (Genap)			
Contact person	Dr. Khabib Mustofa,M.Kom.			
Lecturer	Dr. Khabib Mustofa,M.Kom.			
Language	Bahasa Indonesia			
Relation to curriculum	Master program, elective, 2 nd semester			
Type of teaching, contact hours	Master program: lectures, 13 student, Tuesday, 13.00 - 15.30.			
Workload	1. Lectures: $3 \times 50 = 150$ minutes (2.5 hours) per week.			
	2. Exercises and Assignments: $3 \times 60 = 180$ minutes (3 hours) per			
	week.			
	3. Private study: $3 \times 60 = 180$ minutes (3 hours) per week.			
Credit points	3 credit points (sks).			
Requirements	-			
according to the				
examination				
regulations				
Recommended	-			
prerequisites				
Learning outcomes and	After completing this module, a student is expected to:			
their corresponding				
PLOs	LO	Description	PLO	
	CO-1	Students understand and can explain well the concept of software quality and quality measures	PLO-03	
	CO-2	Students understand and can explain the	PLO-03,	
		components and processes that occur	PLO-09	
		during each stage of software quality assurance		
	CO-3	Students are able to explain the types of software tests and their implementation	PLO-04	

	CO-4 Students are able to explain the role of	PLO-03,	
	development tools in software quality	PLO-04,	
	assurance	PLO-09	
	CO-5 Students are able to explain the role of	PLO-04,	
	professional parties (internal and external)	PLO-09	
	in the software quality assurance process	1 LO-09	
Content		itr accurance	
Content	This course provides discussion on the software quality assurance		
	(SQA), starting from basic concept on sotware quality, SQA, stages		
	in SQA, software testing: strategies and tools, tools in achieving		
	software quality, and assuring software quality when involving		
	outside parties.		
Study and examination	Mid-terms examination and Final examination.		
requirements and			
forms of examination			
Media employed	LCD, blackboard, websites, and e-learning.		
Assessments and	CO1: Problem 1 (8%) and Problem 2 (7%) in Midterm Exam		
Evaluation	CO2: Problem 3 (8%) in Midterm Exam and Problem 2 (8%) in Final		
	Exam, Student Presentation/Assignment (15%)		
	CO3: Problem 4 (7.5%) and Problem 5 (7.5%) in Midterm Exam,		
	Assignment/Project (15%)		
	CO4: Problem 4 (8%) in Final Exam CO5: Problem 3 (8%) and Problem 5 (8%) in Final Exam		
Reading List	D. Galin and G. Daniel., 2004, Software Quality Assurance: From		
	Theory To Implementation. Pearson Education.		
	Myers, G.J., Sandler, C. and Badgett, T., 2011. The art	of software	
	testing. John Wiley & Sons.		
	Kaner, C., Falk, J. and Nguyen, H.Q., 2000. <i>Testing Computer</i>		
	Software Second Edition. Dreamtech Press.		
	Software Secona Lamon. Dreamwell Hess.		