

Course Code	TKIT165222	
Course Name	Software Testing	
Course Instructors	Teguh Bharata Adji	
Course Type	Elective	
Course Classification	Engineering Topics	
Credit / Contact Hour per Week	3 / 150 minutes per Week	
Course Description	This course is a step by step description of the software reliability process (a measure of the continuous delivery of correct service), which is obtained from software testing process. It includes introduction to the software reliability process, defining necessary reliability, developing operational profiles, preparing and executing test.	
Prerequisites Courses	-	
Covered Student Outcome	Fundamental Engineering Knowledge (a) Development of Engineering Solution (b) Data and Experiment (d) Modern Tools Utilization (e)	
Learning Outcome		
		Study Program Student Outcome
No	Learning Outcome	SO (a) – SO (k)
1.	Students able to Understand software reliability engineering (SRE)	Fundamental Engineering Knowledge
2.	Students are able to understand the importance of SRE and understand how it affects software quality	Data and Experiment
3.	Students are able to distinguish SRE from software testing	Modern Tools Utilization
4.	Students are able to understand the main factors that affect the reliability of software	Fundamental Engineering Knowledge
5.	Students are able to perform the analytical process up to gain knowledge or model and test the model obtained.	Development of Engineering Solution
6.	Students are able to understand the testing techniques	Modern Tools Utilization
Topic	<ol style="list-style-type: none"> 1. Define necessary reliability 2. Develop operational profiles 3. Prepare for test 4. Execute test 5. Apply failure data to guide decisions 	
Direct Asessment	Direct Asessment Plan	
	Mid Exam	LO1, LO2, LO3
	Final Exam	LO4, LO5, LO6
Indirect Assesment	Questionnaire (EDOM)	
References	[1] John D. Musa: Software Reliability Engineering (391p.) ISBN 0-70-913271-5 (1998)	