## **MODULE HANDBOOK**

Module name		Introduction to Reliability Model								
Module level, if applicable		3 <sup>rd</sup> year								
Code, if applicable		SST-704								
Semester(s) in which the module is taught		7 <sup>th</sup> (seventh)								
Person responsible for the module		Muhammad Muhajir, S.Si., M.Sc.								
Lecturer		Muhammad Hasan Sidiq Kurniawan, S.Si., M.Sc.								
Language		Bahasa Indonesia								
Relation to curriculum		Elective course in the third year (7 <sup>th</sup> semester) Bachelor Degree								
Types of teaching and learning0	Class size	Attendance time (hours per week per semester)	Form of active participation	Workload (hours per semester)						
Lecture 5	50-60	2.5	Discussion and	Face to face teaching 35						
			presentation	Structured activities	48					
				Independent study	48					
				Exam	5					
Total workload		136 hours								
Credit points		3 CUs / 5.1 ECTS								
Requirements according to		Minimum attendance at lectures is 75%. Final score is evaluated based on								
the examination regulations		quiz, assignment, mid-term exam, and final exam.								
Recommended prerequisites		Introduction to Mathematical Statistics I (SST-302).								
Related course		Introduction to Survival Analysis (SST-615)								
Module objectives/intended learning outcomes		After completing this course, the students have ability to: CO 1. applied the statistical distribution in reliability problems. CO 2. estimate the appropriate estimation for parameters in reliability process. CO 3. analyze and present the research result based on reliability Process								
Content		Introduction to reliability Case Statistical distributions for reliability Case and its application. Reliability Model Case Study								
		The final mark will be weighted as follows:								
Study and examination requirements and forms of examination		No Assessmen component 1 CO 1 2 CO 2 3 CO 2	t Assessmen s Quiz, Assig Midterm E	t types Weight (percest gnment 30% xam 30%	es Weight (percentage) mt 30% 30% 40%					
		Google Classroom relevant websites slides (nower points) video								
Media employed		interactive media, white-board, lapton, LCD projector								
Reading list		<ol> <li>Rausand, M. and Hoyland, A. System Reliability Theory. John Wiley &amp; Sons, Inc.</li> <li>Lee, E. T. and Wang, J. W. Statistical Methods for Survival Data Analysis, John Wiley &amp; Sons, Inc.</li> </ol>								

ASIIN		PLO											
		Е	Ν	Т	Н	U	S	Ι	Α	S	Т	Ι	С
Knowledge	a												
	b												
	c												
	d						CO2						
Ability	e						CO1 CO3						
	f						000						
Competency	g						CO2						
	h												
	i												
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## Mapping CO, PLO, and ASIIN's SSC