

## MODULE HANDBOOK CAPITA SELECTA OF MODELING, SYSTEM, AND SIMULATION

## BACHELOR DEGREE PROGRAM DEPARTMENT OF MATHEMATICS FACULTY OF SCIENCE AND DATA ANALYTICS

INSTITUT TEKNOLOGI SEPULUH NOPEMBER

## **MODULE HANDBOOK**

## CAPITA SELECTA OF MODELING, SYSTEM, AND SIMULATION

Module name	Capita Selecta of Modeling, System, and Simulation		
Module level	Undergradute		
Code	KM184819		
Course (if applicable)	Capita Selecta of Modeling, System, and Simulation		
Semester	Spring (Genap)		
Person responsible for	Dr. Tahiyatul Asfihani, S.Si., M.Si.		
the module			
Lecturer	Dr. Tahiyatul Asfihani, S.Si., M.Si.		
Language	Bahasa Indonesia and English		
Relation to curriculum	Undergradute degree program, <b>elective</b> , 8 <sup>th</sup> semester.		
Type of teaching,	Lectures, <60 students		
contact hours	Tuesdays, 11.00-12.50 (GMT+7)		
Workload	1. Lectures: 2 x 50 = 100 minutes per week.		
	2. Exercises and Assignments : 2 x 60 = 120 minutes (2 hou	rs) per	
	week.		
	3. Private learning: 2 x 60 = 120 minutes (2 hours) per wee	ek.	
Credit points	2 credit points (sks)		
Requirements	A student must have attended at least 75% of the lectures to sit in		
according to the	the exams.		
examination			
regulations			
Mandatory	-		
prerequisites		1	
Learning outcomes	Course Learning Outcome (CLO) after completing this		
and their	module,		
corresponding ILOs	Students who are able to study new topics of analysis and	CLO-01	
	algebra.		
	Students are able to understand and relay material from	CLO-02	
	paper / related papers in the form of presentation		
Content	In this lecture, new topics regarding modeling, optimization and		
	other applications are examined. The study of papers / papers on		
	these topics is presented in the form of discussions and		
	presentations. It is expected that the topics of the final project will		
	emerge.		
	cincipe.		

Study and examination requirements and forms of examination	<ul> <li>In-class exercises</li> <li>Assignment 1, 2, 3</li> <li>Mid-term examination</li> <li>Final examination</li> </ul>
Media employed	LCD, whiteboard, websites (myITS Classroom), zoom.
Reading list	Main :
	Books and papers for related topics
	Supporting: