

MODULE HANDBOOK

CAPITA SELECTA OF STOCHASTIC, OPTIMIZATION, AND RISKS

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

INSTITUT TEKNOLOGI SEPULUH NOPEMBER

MODULE HANDBOOK

CAPITA SELECTA OF STOCHASTIC, OPTIMIZATION, AND RISKS

Module name	Capita Selecta of Stochastic, Optimization, and Risks	
Module level	Undergradute	
Code	KM184820	
Course (if applicable)	Capita Selecta of Stochastic, Optimization, and Risks	
Semester	Spring (Genap)	
Person responsible for	Valeriana L, S.Si, M.T	
the module		
Lecturer	Valeriana L, S.Si, M.T	
Language		
Relation to curriculum	Undergradute degree program, elective , 8 th semester.	
Type of teaching,	Lectures, <60 students	
contact hours	Tuesdays, 11.00-12.50 (GMT+7)	
Workload	·	
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corresponding ILOS		CLO-01
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	Students are able to understand and deliver material from	CLO-02
	related papers / papers in the form of presentations.	
Content	In this lecture, new topics on Stochastics, Optimization and	Risk were
	examined. Study papers / papers on this topic are presented	
	form of discussions and presentations. It is expected that th	
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Person responsible for the module Lecturer Language Relation to curriculum Type of teaching, contact hours Workload Credit points Requirements according to the examination regulations Mandatory prerequisites Learning outcomes and their corresponding ILOs	Valeriana L, S.Si, M.T Bahasa Indonesia and English Undergradute degree program, elective, 8 th semester. Lectures, <60 students Tuesdays, 11.00-12.50 (GMT+7) 1. Lectures: 2 x 50 = 100 minutes per week. 2. Exercises and Assignments: 2 x 60 = 120 minutes (2 hours) week. 3. Private learning: 2 x 60 = 120 minutes (2 hours) per wee 2 credit points (sks) A student must have attended at least 75% of the lectures to the exams. - Course Learning Outcome (CLO) after completing this module, Students are able to study new topics about Stochastics, Optimization and Risk, both theoretically and in application. Students are able to understand and deliver material from related papers / papers in the form of presentations. In this lecture, new topics on Stochastics, Optimization and examined. Study papers / papers on this topic are presented.	cLO-01 CLO-02 Risk were

Study and examination requirements and forms of examination	 In-class exercises Assignment 1, 2, 3 Mid-term examination Final examination
Media employed	LCD, whiteboard, websites (myITS Classroom), zoom.
Reading list	Main: 1. Textbook related to the topic of Stochastics, Optimization and Risk 2. papers for related topic. Supporting: