

MODULE HANDBOOK

SPECIAL TOPIC ON DATA SCIENCE



**STATISTICS UNDERGRADUATE PROGRAM
DEPARTMENT OF STATISTICS
FACULTY OF SCIENCE AND DATA ANALYTICS
INSTITUT TEKNOLOGI SEPULUH NOPEMBER
SURABAYA**

ENDORSEMENT PAGE



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STATISTICS UNDERGRADUATE PROGRAM
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INSTITUT TEKNOLOGI SEPULUH NOPEMBER**

Proses <i>Process</i>	Penanggung Jawab <i>Person in Charge</i>			Tanggal <i>Date</i>
	Nama <i>Name</i>	Jabatan <i>Position</i>	Tanda tangan <i>Signature</i>	
Perumus <i>Preparation</i>	Dr. Achmad Choiruddin, S.Si., M.Sc	Dosen <i>Lecturer</i>		
Pemeriksa dan Pengendalian <i>Review and Control</i>	Dr. Santi Wulan Purnami, S.Si., M.Si; Dr. Wibawati, S.Si, M.Si	Tim kurikulum <i>Curriculum team</i>		
Persetujuan <i>Approval</i>	Dr. Achmad Choiruddin, S.Si., M.Sc	Koordinator RMK <i>Course Cluster Coordinator</i>		
Penetapan <i>Determination</i>	Dr. Kartika Fithriasari, M.Si	Kepala Departemen <i>Head of Department</i>		

MODULE HANDBOOK

SPECIAL TOPIC ON DATA SCIENCE

Module name	SPECIAL TOPIC ON DATA SCIENCE	
Module level	Undergraduate	
Code	SS234761	
Course (if applicable)	SPECIAL TOPIC ON DATA SCIENCE	
Semester	7	
Person responsible for the module	Dr. Achmad Choiruddin, S.Si., M.Sc	
Lecturer	Dr. Achmad Choiruddin, S.Si., M.Sc; Dr. Santi Wulan Purnami, S.Si., M.Si; Dr. Wibawati, S.Si, M.Si	
Language	Bahasa Indonesia and English	
Relation to curriculum	Undergraduate degree program, elective, 7 th semester.	
Type of teaching, contact hours	Case method	
Workload	1. Lectures [L]: 3 x 50 = 150 minutes per week. 2. Exercises and Assignments [EA]: 3 x 60 = 180 minutes (3 hours) per week. 3. Independent Learning [IL]: 3 x 60 = 180 minutes (3 hours) per week.	
Credit points	3 credit points (SKS) Equivalent to 4.8 ECTS	
Requirements according to the examination regulations	A student must have attended at least 80% of the lectures to sit in the exams.	
Mandatory prerequisites	-	
Learning outcomes and their corresponding PLOs	-	PLO-2 PLO-7 PLO-8
Content	-	
Assessment and its weight	Assignment 1 (20%) Assignment 1 (20%) Assignment 1 (30%) Assignment 1 (30%)	
Media employed	LCD, whiteboard, websites (myITS Classroom), zoom	
Reading list	1. -	




**INSTITUT TEKNOLOGI SEPULUH NOPEMBER
FAKULTAS SAINS DAN ANALITIKA DATA
PROGRAM STUDI SARJANA STATISTIKA
DEPARTEMEN STATISTIKA**

**RENCANA PEMBELAJARAN SEMESTER/
SEMESTER LEARNING PLAN**

MATA KULIAH (MK)/ Course	KODE/ Code	Rumpun MK/ Course Group	BOBOT (sks)/ Weight (credit)		SEMESTER/ Semester	Tgl Penyusunan/ Drafting Date
TOPIK KHUSUS SAINS DATA/ SPECIAL TOPIC ON DATA SCIENCE	SS234761	Statistika Teori dan Pemodelan	T=3	P=0	VII	Januari 2023
OTORISASI/ AUTHORIZATION	Pengembang RPS/ RPS Developer		Koordinator RMK/ Course Group Coordinator		Ketua PRODI/ Head of Department	
	Dr. Achmad Choiruddin, S.Si., M.Sc; Dr. Santi Wulan Purnami, S.Si., M.Si; Dr. Wibawati, S.Si, M.Si		Dr. Achmad Choiruddin, S.Si., M.Sc		Dr. Kartika Fithriasari, M.Si	
Capaian Pembelajaran (CP)/ Learning Achievement	CPL-PRODI yang dibebankan pada MK/ PLO					
	CPL-2	Mampu mengkaji dan memanfaatkan ilmu pengetahuan dan teknologi dalam rangka mengaplikasikannya pada bidang Statistika, serta mampu mengambil keputusan secara tepat dari hasil kerja sendiri maupun kerja kelompok dalam bentuk laporan tugas akhir atau bentuk kegiatan pembelajaran lain yang luarannya setara dengan Tugas Akhir melalui pemikiran logis, kritis, sistematis dan inovatif Mampu menggunakan perangkat komputasi modern untuk menyelesaikan permasalahan statistik				
	CPL-7	Mampu menggunakan perangkat komputasi modern untuk menyelesaikan permasalahan statistik				
	CPL-8	Mampu menerapkan dan mengevaluasi teknik komputasi untuk menyelesaikan permasalahan statistik				
	PLO-2	<i>Be able to study and utilize science and technology in order to apply it to the field of statistics, and able to make appropriate decisions from the results of their own work or group work in the form of a final project report or other forms of learning activities whose output is equivalent to a final project through logical, critical, systematic, and innovative thinking</i>				

	PLO-7 PLO-8	Able to use modern computing devices to solve statistical problems Able to use computational techniques to solve statistical problems		
	Capaian Pembelajaran Mata Kuliah (CPMK)/ CLO			
	-			
	Matrik CPL – CPMK <i>PLO-CLO Matrix</i>			
		CPL-2	CPL-7	CPL-8
	CPMK-1	✓		
	CPMK-2		✓	
	CPMK-3			✓
	CPMK-4			
Deskripsi Singkat MK/ Course Description	-			
Bahan Kajian: Materi Pembelajaran/ Course Material	Praktek Statistika, Teknologi Informasi, Pemrosesan Data, Pemodelan Statistika <i>Statistical Practice, Information Technology, Data Processing, Statistical Modeling</i>			
Pustaka/ References	Utama/Primary:			
	1. -			
	Pendukung/Secondary:			
	1. -			
Dosen Pengampu/ Lecturers	Dr. Achmad Choiruddin, S.Si., M.Sc; Dr. Santi Wulan Purnami, S.Si., M.Si; Dr. Wibawati, S.Si, M.Si			
Matakuliah syarat/ Pre-requisite Course	-			

Mg Ke- Week	Kemampuan akhir tiap tahapan belajar (Sub-CPMK) <i>Final capability for each learning step</i>	Penilaian <i>Evaluation</i>		Bantuk Pembelajaran, Metode Pembelajaran, Penugasan Mahasiswa, [Estimasi Waktu] <i>Learning Format Learning Methods Assignment for Student [Estimated Time]</i>		Materi Pembelajaran [Pustaka] <i>Learning Material [References]</i>	Bobot Penilaian (%) <i>Evaluation Weight (%)</i>
		Indikator <i>Indicator</i>	Kriteria & Bentuk <i>Criteria and Format</i>	Luring <i>Offline</i>	Daring <i>Online</i>		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1		1.					
8	ETS/Midterm						
9		1.					
16	Evaluasi Akhir Semester / Ujian Akhir Semester/<i>Final Exam</i>						

	RENCANA ASESMEN & EVALUASI <i>Assessment and Evaluation Plan</i> Program Studi Sarjana Statistika / <i>Statistics Undergraduate Program</i> TOPIK KHUSUS SAINS DATA / SPECIAL TOPIC ON DATA SCIENCE		RA&E
			SLK-61
Kode MK: SS234761 <i>Course Code:</i> SS234761	Bobot sks (T/P): 3 <i>CREDITS : 3</i>	Rumpun MK: Statistika Teori dan Pemodelan <i>Course cluster:</i> <i>Statistical Theory and Modeling</i>	Smt: VII <i>Semester VII</i>
OTORISASI <i>AUTHORIZATION</i>	Penyusun <i>Author</i> Dr. Santi Wulan Purnami, S.Si., M.Si; Dr. Wibawati, S.Si, M.Si	Koordinator RMK <i>Coordinator of course cluster</i> Dr. Achmad Choiruddin, S.Si., M.Sc	Kaprodi <i>Head of Department</i> Dr. Kartika F, M.Si.

Mg ke (1)	Sub CP-MK (2)		Bentuk Asesmen (Penilaian) / <i>Evaluation Type</i> (3)	Bobot / <i>Scoring</i> (%) (4)
	No	Kemampuan akhir / <i>Final Capability</i>		
1				
8		Evaluasi Tengah Semester <i>Mid Semester Evaluation</i>		
9				
16		Evaluasi Akhir <i>Final Evaluation</i>		
Total Bobot Penilaian				100%