MODULE HANDBOOK

FINAL PROJECT

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

ENDORSEMENT PAGE

	**MODULE HANDBOOK** **FINAL PROJECT** **STATISTICS UNDERGRADUATE PROGRAM** **DEPARTMENT OF STATISTICS** **INSTITUT TEKNOLOGI SEPULUH NOPEMBER**

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

MODULE HANDBOOK
FINAL PROJECT

Module name	FINAL PROJECT	
Module level	Undergraduate	
Code	SS2347862	
Course (if applicable)	FINAL PROJECT	
Semester	8	
Person responsible for the module	Dr. Santi Wulan Purnami, S.Si., M.Si	
Lecturer	Dr. Santi Wulan Purnami, S.Si., M.Si	
Language	Bahasa Indonesia and English	
Relation to curriculum	Undergradute degree program, mandatory, 8th semester.	
Type of teaching, contact hours	Other SCL method (100%)	
Workload	1. Research [R]: 6x170 minutes = 1020 Minutes per week	
Credit points	6 credit points (SKS) Equivalent to 9.6 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	At least 120 credits have been taken	
Learning outcomes and their corresponding PLOs	CLO.1 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 in the form of a final project report through logical, critical, systematic, and innovative thinking CLO.2 Able to apply Science and Mathematics to support understanding of statistical methods CLO.3 Able to apply statistical theory to statistical methods CLO.4 Able to design, collect and manage data with the right methodology CLO.5 Able to use modern computing devices to solve statistical problems CLO.6 Able to use computational techniques to solve statistical problems CLO.7 Able to apply statistical methods correctly and evaluate them to analyze theoretical and real problems CLO.8 Able to apply Computing-based Business, Industrial, Financial Economic, Social Population,	PLO-2 PLO-4 PLO-5 PLO-6 PLO-7 PLO-8 PLO-9 PLO-10

	Environmental or Health Statistics methods to real problems	
Content	Final project is a course that aim to enable students to solve problems in one of the 5 applied fields, namely business-industry, economy-finance, computing, socio-population and environmental-health. The final project begins with a proposal seminar presentation for about 1 hour, data collection, data entry and analysis as well as making a draft thesis report followed by validation and thesis examination.	
Assessment and its weight	Proposal Seminar (15%) Supervising (20%) Final Project Seminar (20%) Final Project Report (25%) Oral Exam (20%)	
Media employed	LCD, whiteboard, websites (myITS Classroom), zoom	
Reading list	1. Departemen Statistika, 2018. Pedoman Tugas Akhir. 2. FMIPA-ITS, 1996. Pedoman Kerja Praktik dan Tugas Akhir.	

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*
TUGAS AKHIR / *FINAL PROJECT*	SS234862	Statistika Teori dan Pemodelan	**T=6**	**P=0**		Januari 2023

OTORISASI/ *AUTHORIZATION*	**Pengembang RPS/** *RPS Developer*	**Koordinator RMK/** *Course Group Coordinator*	**Ketua PRODI/** *Head of Department*
	Dr. Santi Wulan Purnami, M.Si	Dr. Santi Wulan Purnami, M.Si	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
	CPL-4	Mampu menerapkan Sains dan Matematika untuk mendukung pemahaman metode statistika
	CPL-5	Mampu menerapkan teori statistika pada metode statistika
	CPL-6	Mampu merancang, melaksanakan, dan mengevaluasi pengumpulan data dengan metodologi yang tepat
	CPL-7	Mampu menggunakan perangkat komputasi modern untuk menyelesaikan permasalahan statistik
	CPL-8	Mampu menerapkan dan mengevaluasi teknik komputasi untuk menyelesaikan permasalahan statistik
	CPL-9	Mampu menerapkan metode statistika dengan tepat serta mengevaluasinya untuk menganalisis permasalahan teoritis dan riil
	CPL-10	Mampu menerapkan metode Statistika Bisnis, Industri, Ekonomi Finansial, Sosial Kependudukan, Lingkungan atau Kesehatan yang berbasis Komputasi pada permasalahan riil

	PLO-2	*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*
	PLO-4	*Able to apply Science and Mathematics to support understanding of statistical methods*
	PLO-5	*Able to apply statistical theory to statistical methods*
	PLO-6	*Able to design, collect and manage data with the right methodology*
	PLO-7	*Able to use modern computing devices to solve statistical problems*
	PLO-8	*Able to use computational techniques to solve statistical problems*
	PLO-9	*Able to apply statistical methods correctly and evaluate them to analyze theoretical and real problems*
	PLO-10	*Able to apply Computing-based Business, Industrial, Financial Economic, Social Population, Environmental or Health Statistics methods to real problems*

Capaian Pembelajaran Mata Kuliah (CPMK)/ *CLO*

CPMK 1. Mampu mengkaji dan memanfaatkan ilmu pengetahuan dan teknologi dalam rangka mengaplikasikannya pada bidang Statistika, serta mampu mengambil keputusan secara tepat dari hasil kerja sendiri dalam bentuk laporan tugas akhir melalui pemikiran logis, kritis, sistematis dan inovatif
CPMK 2. Mampu menerapkan Sains dan Matematika untuk mendukung pemahaman metode statistika
CPMK 3. Mampu menerapkan teori statistika pada metode statistika
CPMK 4. Mampu merancang, melaksanakan, dan mengevaluasi pengumpulan data dengan metodologi yang tepat
CPMK 5. Mampu menggunakan perangkat komputasi modern untuk menyelesaikan permasalahan statistik
CPMK 6. Mampu menerapkan dan mengevaluasi teknik komputasi untuk menyelesaikan permasalahan statistik
CPMK 7. Mampu menerapkan metode statistika dengan tepat serta mengevaluasinya untuk menganalisis permasalahan teoritis dan riil
CPMK 8. Mampu menerapkan metode Statistika Bisnis, Industri, Ekonomi Finansial, Sosial Kependudukan, Lingkungan atau Kesehatan yang berbasis Komputasi pada permasalahan riil

CLO.1 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 in the form of a final project report through logical, critical, systematic, and innovative thinking
CLO.2 Able to apply Science and Mathematics to support understanding of statistical methods
CLO.3 Able to apply statistical theory to statistical methods
CLO.4 Able to design, collect and manage data with the right methodology
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Matrik CPL – CPMK
PLO-CLO Matrix

	CPL-2	CPL-4	CPL-5	CPL-6	CPL-7	CPL-8	CPL-9	CPL-10
CPMK-1	✓							
CPMK-2		✓						
CPMK-3			✓					
CPMK-4				✓				
CPMK-5					✓			
CPMK-6						✓		
CPMK-7							✓	
CPMK-8								✓

Deskripsi Singkat MK/ ***Course Description***

Tugas Akhir merupakan mata kuliah yang bertujuan agar mahasiswa mampu menyelesaikan permasalahan di salah satu dari 5 bidang terapan, yaitu bisnis-industri, ekonomi-keuangan, komputasi, sosial-kependudukan, dan lingkungan-kesehatan. Tugas Akhir diawali dengan presentasi seminar proposal selama kurang lebih 1 jam, pengumpulan data, entri dan analisis data serta pembuatan draft laporan tugas akhir yang dilanjutkan dengan validasi dan ujian tugas akhir.

Final Project is a course that aim to enable students to solve problems in one of the 5 applied fields, namely business-industry, economy-finance, computing, socio-population and environmental-health. The final project begins with a proposal seminar presentation for about 1 hour, data collection, data entry and analysis as well as making a draft thesis report followed by validation and thesis examination.

Bahan Kajian: Materi Pembelajaran/ ***Course Material***

Pustaka/ ***References***

Utama/*Primary*:

1. Departemen Statistika, 2018. Pedoman Tugas Akhir.
2. FMIPA-ITS, 1996. Pedoman Kerja Praktik dan Tugas Akhir.

Pendukung/*Secondary*:

Dosen Pengampu/ ***Lecturers***

Santi Wulan Purnami, S.Si, M.Si

Matakuliah syarat/ ***Pre-requisite Course***	Minimal menempuh 120 SKS *At least 120 credits have been taken*