

MODULE HANDBOOK

INTRODUCTION TO CLINICAL TRIALS



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

ENDORSEMENT PAGE



**MODULE HANDBOOK
INTRODUCTION TO CLINICAL TRIALS
STATISTICS UNDERGRADUATE PROGRAM
DEPARTMENT OF STATISTICS
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>	Jerry Dwi T.P., S.Si, M.Si, Ph.D	Dosen <i>Lecturer</i>		
Pemeriksa dan Pengendalian <i>Review and Control</i>	Dr. Santi Wulan P, S.Si., M.Si; Jerry Dwi T.P., S.Si, M.Si, Ph.D	Tim kurikulum <i>Curriculum team</i>		
Persetujuan <i>Approval</i>	Jerry Dwi T.P., S.Si, M.Si, Ph.D	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

INTRODUCTION TO CLINICAL TRIALS

Module name	INTRODUCTION TO CLINICAL TRIALS	
Module level	Undergraduate	
Code	SS234754	
Course (if applicable)	INTRODUCTION TO CLINICAL TRIALS	
Semester	7	
Person responsible for the module	Jerry Dwi T.P., S.Si, M.Si, Ph.D	
Lecturer	Dr. Santi Wulan P, S.Si., M.Si; Jerry Dwi T.P., S.Si, M.Si, Ph.D	
Language	Bahasa Indonesia and English	
Relation to curriculum	Undergraduate degree program, elective, 7 th semester.	
Type of teaching, contact hours	Case method, Non-SCL, other SCL 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	CLO. 1 Able to explain the concepts of descriptive statistics and inference for clinical trial data CLO. 2 Able to utilize clinical trial data to support work completion CLO.3 Able to formulate problem solutions by analyzing clinical trial data and interpreting them appropriately CLO.4 Able to use the necessary computing techniques and modern computer devices and able to choose appropriate methods for clinical trial data in solving real problems	PLO-5 PLO-7 PLO-9
Content	-	
Assessment and its weight	Task 1 (25%) Mid Exam (25%) Task 2 (25%) Final Exam (25%)	
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
PENGANTAR UJI KLINIS/ INTRODUCTION TO CLINICAL TRIALS	SS234754	Statistika Lingkungan dan Kesehatan	T=3	P=0	VII	Januari 2023
OTORISASI/ AUTHORIZATION	Pengembang RPS/ RPS Developer		Koordinator RMK/ Course Group Coordinator		Ketua PRODI/ Head of Department	
	Dr. Santi Wulan P, S.Si., M.Si; Jerry Dwi T.P., S.Si, M.Si, Ph.D		Jerry Dwi T.P., S.Si, M.Si, Ph.D		Dr. Kartika Fithriasari, M.Si	
Capaian Pembelajaran (CP)/ Learning Achievement	CPL-PRODI yang dibebankan pada MK/ PLO					
	CPL-5	Mampu menerapkan teori statistika pada metode statistika				
	CPL-7	Mampu menggunakan perangkat komputasi modern untuk menyelesaikan permasalahan statistik				
	CPL-9	Mampu menerapkan metode statistika dengan tepat serta mengevaluasinya untuk menganalisis permasalahan teoritis dan riil				
	PLO-5	Able to apply statistical theory to statistical methods				
	PLO-7	Able to use modern computing devices to solve statistical problems				
	PLO-9	Able to apply statistical methods correctly and evaluate them to analyze theoretical and real problems				

	<p>Capaian Pembelajaran Mata Kuliah (CPMK)/ <i>CLO</i></p>																				
	<p>CPMK. 1 Mampu menjelaskan konsep statistika deskriptif dan inferensia untuk data uji klinis CPMK. 2 Mampu memanfaatkan data uji klinis untuk mendukung penyelesaian pekerjaan CPMK. 3 Mampu memformulasikan penyelesaian masalah dengan menganalisis data uji klinis serta menginterpretasikan dengan tepat CPMK. 4 Mampu menggunakan teknik komputasi dan perangkat komputer modern yang diperlukan serta mampu memilih metode yang sesuai bagi data uji klinis dalam menyelesaikan masalah riil</p> <p><i>CLO. 1 Able to explain the concepts of descriptive statistics and inference for clinical trial data</i> <i>CLO. 2 Able to utilize clinical trial data to support work completion</i> <i>CLO.3 Able to formulate problem solutions by analyzing clinical trial data and interpreting them appropriately</i> <i>CLO.4 Able to use the necessary computing techniques and modern computer devices and able to choose appropriate methods for clinical trial data in solving real problems</i></p>																				
	<p>Matrik CPL – CPMK <i>PLO-CLO Matrix</i></p> <table border="1" data-bbox="409 699 1458 871"> <thead> <tr> <th></th> <th>CPL-5</th> <th>CPL-7</th> <th>CPL-9</th> </tr> </thead> <tbody> <tr> <td>CPMK-1</td> <td>✓</td> <td></td> <td>✓</td> </tr> <tr> <td>CPMK-2</td> <td>✓</td> <td></td> <td>✓</td> </tr> <tr> <td>CPMK-3</td> <td></td> <td>✓</td> <td>✓</td> </tr> <tr> <td>CPMK-4</td> <td></td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>		CPL-5	CPL-7	CPL-9	CPMK-1	✓		✓	CPMK-2	✓		✓	CPMK-3		✓	✓	CPMK-4		✓	✓
	CPL-5	CPL-7	CPL-9																		
CPMK-1	✓		✓																		
CPMK-2	✓		✓																		
CPMK-3		✓	✓																		
CPMK-4		✓	✓																		
<p>Deskripsi Singkat MK/ <i>Course Description</i></p>	<p>-</p>																				
<p>Bahan Kajian: Materi Pembelajaran/ <i>Course Material</i></p>	<p>Teori Statistika <i>Statistical Theory</i></p>																				
<p>Pustaka/ <i>References</i></p>	<table border="1" data-bbox="394 1206 1856 1377"> <tr> <td>Utama/Primary:</td> <td></td> </tr> <tr> <td>1. -</td> <td></td> </tr> <tr> <td>Pendukung/Secondary:</td> <td></td> </tr> <tr> <td>1. -</td> <td></td> </tr> </table>	Utama/Primary:		1. -		Pendukung/Secondary:		1. -													
Utama/Primary:																					
1. -																					
Pendukung/Secondary:																					
1. -																					

Dosen Pengampu/ Lecturers	Dr. Santi Wulan P, S.Si., M.Si; Jerry Dwi T.P., S.Si, M.Si, Ph.D						
Matakuliah syarat/ Pre-requisite Course	-						
Mg Ke-Week	Kemampuan akhir tiap tahapan belajar (Sub-CPMK) Final capability for each learning step	Penilaian Evaluation		Bentuk Pembelajaran, Metode Pembelajaran, Penugasan Mahasiswa, [Estimasi Waktu] <i>Learning Format Learning Methods Assignment for Student [Estimated Time]</i>		Materi Pembelajaran [Pustaka] Learning Material [References]	Bobot Penilaian (%) Evaluation Weight (%)
		Indikator Indicator	Kriteria & Bentuk Criteria and Format	Luring Offline	Daring Online		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Pengenalan Uji Klinis <i>Introduction to Clinical Trials</i>						
2	What's the Question? <i>What's the Question?</i>						

3	Study Population and Basic Study Design <i>Study Population and Basic Study Design</i>						
4	Metode-metode Randomisasi <i>Randomization Methods</i>						
5	Permasalahan Ukuran Sample <i>Sample Size Issues</i>						
6	Pemantauan Data, Fungsi Komite Pemantau dan Metode Statistik <i>Data Monitoring, Monitoring Committee Function and Statistical Methods</i>						
7	Penilaian Kualitas Hidup <i>Quality of Life Assessment</i>						
8	ETS/Midterm						
9	Bridging Studies and Multi-Regional Clinical Trials <i>Bridging Studies and Multi-Regional Clinical Trials</i>						
10	Survival Analysis <i>Survival Analysis</i>						
11	Analisis Meta <i>Meta Analysis</i>						
12	Permasalahan dalam Analisis Uji Klinis Acak <i>Issues in Analysis of Randomized Clinical Trials</i>						
13	Biomarkers <i>Biomarkers</i>						

14	Patient/Trial Closeout and Reporting of Clinical Trials <i>Patient/Trial Closeout and Reporting of Clinical Trials</i>						
15	Protokol dan Prosedur Manual <i>Protocols and Manual of Procedures</i>						
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> PENGANTAR UJI KLINIS / INTRODUCTION TO CLINICAL TRIALS		RA&E
			SLK-54
Kode MK: SS234754 <i>Course Code:</i> SS234754	Bobot sks (T/P): 3 <i>CREDITS : 3</i>	Rumpun MK: Statistika Lingkungan dan Kesehatan <i>Course cluster:</i> <i>Environment and Health Statistics</i>	Smt: VII <i>Semester VII</i>
OTORISASI <i>AUTHORIZATION</i>	Penyusun <i>Author</i> Dr. Santi Wulan P, S.Si., M.Si; Jerry Dwi T.P., S.Si, M.Si, Ph.D	Koordinator RMK <i>Coordinator of course cluster</i> Jerry Dwi T.P., S.Si, M.Si, Ph.D	Kaprodi <i>Head of Department</i> Dr. Kartika F, M.Si.

Mg ke (1)	Sub CP-MK (2)		Bentuk Asesmen (Penilaian) / Evaluation Type (3)	Bobot / Scoring (%) (4)
	No	Kemampuan akhir / <i>Final Capability</i>		
1		Pengenalan Uji Klinis <i>Introduction to Clinical Trials</i>		
2		What's the Question? <i>What's the Question?</i>		
3		Study Population and Basic Study Design <i>Study Population and Basic Study Design</i>		
4		Metode-metode Randomisasi <i>Randomization Methods</i>		
5		Permasalahan Ukuran Sample <i>Sample Size Issues</i>		
6		Pemantauan Data, Fungsi Komite Pemantau dan Metode Statistik <i>Data Monitoring, Monitoring Committee Function and Statistical Methods</i>		
7		Penilaian Kualitas Hidup <i>Quality of Life Assessment</i>		
8		Evaluasi Tengah Semester <i>Mid Semester Evaluation</i>		
9		Bridging Studies and Multi-Regional Clinical Trials <i>Bridging Studies and Multi-Regional Clinical Trials</i>		

10	Survival Analysis <i>Survival Analysis</i>		
11	Analisis Meta <i>Meta Analysis</i>		
12	Permasalahan dalam Analisis Uji Klinis Acak <i>Issues in Analysis of Randomized Clinical Trials</i>		
13	Biomarkers <i>Biomarkers</i>		
14	Patient/Trial Closeout and Reporting of Clinical Trials <i>Patient/Trial Closeout and Reporting of Clinical Trials</i>		
15	Protokol dan Prosedur Manual <i>Protocols and Manual of Procedures</i>		
16	Evaluasi Akhir <i>Final Evaluation</i>		
Total Bobot Penilaian			100%