MODULE HANDBOOK

SAMPLING AND SURVEY TECHNIQUES

STATISTICS UNDERGRADUATE PROGRAM

DEPARTMENT OF STATISTICS

FACULTY OF SCIENCE AND DATA ANALYTICS

INSTITUT TEKNOLOGI SEPULUH NOPEMBER

SURABAYA

ENDORSEMENT PAGE

	MODULE HANDBOOK SAMPLING AND SURVEY TECHNIQUES **STATISTICS UNDERGRADUATE PROGRAM** **DEPARTMENT OF STATISTICS** **INSTITUT TEKNOLOGI SEPULUH NOPEMBER**
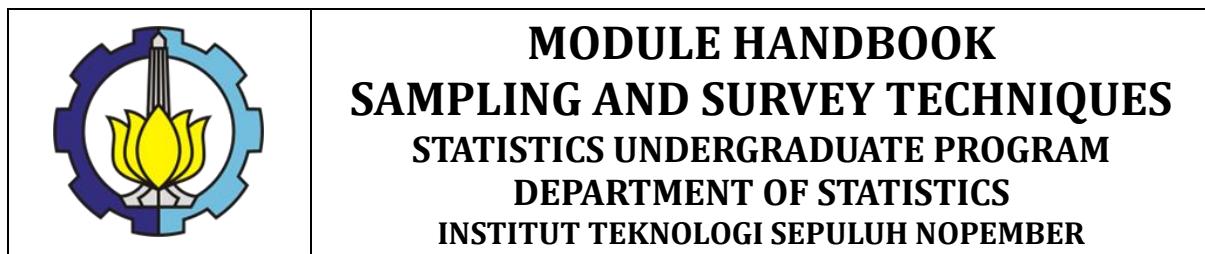
Proses *Process*	Penanggung Jawab *Person in Charge*			Tanggal *Date*
	Nama *Name*	Jabatan *Position*	Tanda tangan *Signature*	
Perumus *Preparation*	Dr. Dra. Ismaini Zain, M.Si	Dosen *Lecturer*		
Pemeriksa dan Pengendalian *Review and Control*	Dr. Agnes Tuti R, M.Sc/ Dr. Dra. Ismaini Zain, M.Si; Dr. Santi Wulan Purnami, S.Si, M.Si ; Erma Oktania Permatasari, S.Si., M.Si.	Tim kurikulum *Curriculum team*		
Persetujuan *Approval*	Dr. Dra. Ismaini Zain, M.Si	Koordinator RMK *Course Cluster Coordinator*		
Penetapan *Determination*	Dr. Dra. Kartika Fithriasari, M.Si	Kepala Departemen *Head of Department*		

Module name	SAMPLING AND SURVEY TECHNIQUES
Module level	Undergraduate
Code	SS234310
Course (if applicable)	SAMPLING AND SURVEY TECHNIQUES
Semester	III
Person responsible for the module	Dr. Dra. Ismaini Zain, M.Si
Lecturer	Dr. Dra. Ismaini Zain, M.Si; Dr. Dra. Agnes Tuti Rumiati , M.Sc; Dr. Santi Wulan Purnami, S.Si, M.Si ; Erma Oktania Permatasari, S.Si., M.Si.
Language	Bahasa Indonesia and English
Relation to curriculum	Undergradute degree program, mandatory, 3rd semester.
Type of teaching, contact hours	Team Based Project (20%); Other SCL Methods (68,75%); Non SCL (12,5%)
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	Introduction to Statistical Methods
Learning outcomes and their corresponding PLOs	CLO.1 Understand the basic concepts of sampling techniques including non-probability sampling and probability sampling CLO.2 Able to explain various probability sampling methods and how to estimate parameters that are appropriate to population conditions CLO.3 Able to implement probabilistic sampling methods that are relevant to certain populations CLO.4 Understand the concept of estimating population size CLO.5 Understand survey concepts, know instruments, data collection methods and survey management in an ewort to design a survey and be able to carry out surveys and organize survey implementation	PLO-5 PLO-6 PLO-7 PLO-9

Content	Sampling and Survey Techniques are the subjects that underlie the survey research process. The objectives of the Sampling Techniques course are: to be able to design a sampling plan for survey purposes in accordance with correct sampling procedures; able to explain the meaning of population, sampling frame, experimental unit; able to understand various sampling methods including: nonprobability sampling and probability sampling; able to estimate parameters and determine sample size according to the sampling method; and able to design and carry out surveys. Apart from using lecture and discussion methods, the learning strategy used is that students are also given practice questions, sampling design tasks and practice conducting survey exercises. Students are also given a field assignment as a final project which is carried out in groups, namely carrying out a sampling design exercise for a particular case by considering various possible sampling methods. Final project results are communicated both written and verbally
Assessment and its weight	Task/Exercise (20%) Quiz (15%) Cognitive - Midterm Exam (15%) Designing Sampling for a particular case (35%) Cognitive - Final Exam (15%)
Media employed	LCD, whiteboard, websites (myITS Classroom), zoom
Reading list	1. Mendenhall, W., Scheaffer R.L., Ott Lyman [1986], Elementary Survey Sampling, 3rd Edition, Duxburry Press Boston. 2. Cochran, W.G. [1977], Sampling Techniques, 3rd Edition, John Wiley & Sons, New York 3. Tryfors P. [1996], Sampling Methode for Applied Research Text and Cases, John Wiley & Sons, New York.

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*
TEKNIK SAMPLING DAN SURVEI / *SAMPLING AND SURVEY TECHNIQUES*		SS234310	Statistika Teori dan Pemodelan	**T=3**	**P=0**	III	Januari 2023
OTORISASI/ *AUTHORIZATION*		**Pengembang RPS/** *RPS Developer*	**Koordinator RMK/** *Course Group Coordinator*		**Ketua PRODI/** *Head of Department*		
		Dr. Dra. Ismaini Zain, M.Si; Dr. Dra. Agnes Tuti Rumiati , M.Sc; Dr. Santi Wulan Purnami, S.Si, M.Si ; Erma Oktania Permatasari, S.Si., M.Si.	Dr. Dra. Ismaini Zain, M.Si		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-6	Mampu merancang, melaksanakan, dan mengevaluasi pengumpulan data dengan metodologi yang tepat
	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-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-9	Able to apply statistical methods correctly and evaluate them to analyze theoretical and real problems		

Capaian Pembelajaran Mata Kuliah (CPMK)/
CLO

CPMK 1. Memahami konsep dasar teknik sampling meliputi sampling berprobabilitas (nonprobability sampling) maupun sampling probabilitas (probability sampling)
CPMK 2. Mampu menjelaskan berbagai metode sampling berprobabilitas dan cara estimasi parameter yang sesuai dengan kondisi populasi
CPMK 3. Mampu mengimplementasikan metode sampling probabilistik yang relevan untuk populasi tertentu
CPMK 4. Memahami konsep menaksir ukuran populasi
CPMK 5. Memahami konsep survei, mengenal instrumen, metode pengumpulan data dan manajemen survey dalam upaya merancang suatu survey serta mampu melaksanan survey dan organisasi pelaksanaan survey

CLO.1 Understand the basic concepts of sampling techniques including non-probability sampling and probability sampling
CLO.2 Able to explain various probability sampling methods and how to estimate parameters that are appropriate to population conditions
CLO.3 Able to implement probabilistic sampling methods that are relevant to certain populations
CLO.4 Understand the concept of estimating population size
CLO.5 Understand survey concepts, know instruments, data collection methods and survey management in an ewort to design a survey and be able to carry out surveys and organize survey implementation

Matrik CPL – CPMK
PLO-CLO Matrix

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

Deskripsi Singkat MK/ *Course Description*	Teknik Sampling dan Survei merupakan mata kuliah yang mendasari proses riset survei. Tujuan mata kuliah Teknik Sampling adalah: mampu mendesain rencana sampling untuk kepentingan survei sesuai dengan prosedur sampling yang benar; mampu menjelaskan pengertian populasi, kerangka sampling, unit eksperimen; mampu memahami berbagai macam metode sampling meliputi: nonprobability sampling maupun probability sampling; mampu melakukan mengestimasi parameter maupun menentukan ukuran sampel sesuai dengan metode sampling; dan mampu merancang dan melaksanakan survei. Strategi pembelajaran yang digunakan selain menggunakan metode ceramah dan diskusi, mahasiswa juga diberi tugas latihan soal, tugas merancang sampling dan praktik melakukan Latihan survei. Mahasiswa juga diberi tugas lapangan sebagai final project yang dikerjakan secara berkelompok, yaitu melaksanakan latihan perancangan sampling untuk suatu kasus tertentu dengan mempertimbangkan berbagai metode sampling yang mungkin. Hasil final project dikomunikasikan baik tertulis maupun secara lisan

	Sampling and Survey Techniques are the subjects that underlie the survey research process. The objectives of the Sampling Techniques course are: to be able to design a sampling plan for survey purposes in accordance with correct sampling procedures; able to explain the meaning of population, sampling frame, experimental unit; able to understand various sampling methods including: nonprobability sampling and probability sampling; able to estimate parameters and determine sample size according to the sampling method; and able to design and carry out surveys. Apart from using lecture and discussion methods, the learning strategy used is that students are also given practice questions, sampling design tasks and practice conducting survey exercises. Students are also given a field assignment as a final project which is carried out in groups, namely carrying out a sampling design exercise for a particular case by considering various possible sampling methods. Final project results are communicated both written and verbally	
Bahan Kajian: Materi Pembelajaran/ *Course Material*	Dasar Sains, Teori Statistika, Pengumpulan Data, Deskripsi dan Eksplorasi *Basic Science, Statistical Theory, Data Collection, Description and Exploration*	
Pustaka/ *References*	**Utama/*Primary*:**	
	1. Mendenhall, W., Scheaffer R.L., Ott Lyman [1986], Elementary Survey Sampling, 3rd Edition, Duxburry Press Boston	
	Pendukung/*Secondary*:	
	1. Cochran, W.G.[1977], Sampling Techniques, 3rd Edition, John Wiley & Sons, New York	
	2. Tryfors P. [1996], Sampling Methode for Applied Research Text and Cases, John Wiley & Sons, New York	
Dosen Pengampu/ *Lecturers*	Dr. Dra. Ismaini Zain, M.Si; Dr. Agnes Tuti R, M.Sc; Erma Oktania Permatasari, S.Si., M.Si.	
Matakuliah syarat/ *Pre-requisite Course*	*Pengantar Metode Statistika* Introduction to Statistical Methods	

Mg Ke- *Week*	**Kemampuan akhir tiap tahapan belajar (Sub-CPMK)**	**Penilaian** *Evaluation*	**Bantuk Pembelajaran, Metode Pembelajaran, Penugasan Mahasiswa,**	**Materi Pembelajaran [Pustaka]** *Learning Material*	**Bobot Penilaian (%)**

(1)	Final capability for each learning step (2)	Indikator *Indicator* (3)	Kriteria & Bentuk *Criteria and Format* (4)	[Estimasi Waktu] Learning Format Learning Methods Assignment for Student [Estimated Time] — Luring *Offline* (5)	Daring *Online* (6)	[References] (7)	Evaluation Weight (%) (8)
1	Konsep teknik Sampling, estimasi parameter, prinsip teknik sampling, kemungkinan bias, proses pengambilan sampel secara acak

Concept of sampling techniques, parameter estimation, principles of sampling techniques, possibility of bias, random sampling process | Konsep teknik Sampling, estimasi parameter, prinsip teknik sampling, kemungkinan bias, proses pengambilan sampel secara acak *Sampling technique* 1. *concept, parameter estimation, sampling technique principle, bias possibility, random sampling process* | Ceramah, Diskusi Lecture, discussion | TM: 3x50" LT: 3x60" BM: 3x60" *L: 3x50" EA: 3x60" IL: 3x60"* | Tugas Individu I *Individual task I* | 1.1 Dapat menjelaskan pengertian sampling, keuntungan dan kerugian, permaslahan dalam sampling
1.2 Dapat menjelaskan pengertian populasi, sampel, parameter statistik , taksiran parameter
1.3 Dapat menjelaskan kemungkinan bias dalam sampling dan pengaruhnya terhadap ukuran kualitas taksiran
1.4 Dapat menjelaskan proses pemilihan sampel secara acak
1.1 Can explain the meaning of sampling, advantages and disadvantages, problems in sampling
1.2 Can explain the meaning of population, | 5%/5% |

						sample, statistical parameters, parameter estimates 1.3 Can explain possible bias insampling and its effect on measures of estimated quality Can explain the random sample selection process	
2-3	Sampling Acak Sederhana (SAS): prosedur, definisi notasi, berbagai metode penaksiran parameter dan penentuan ukuran sampel *Simple Random Sampling (SRS): procedure, definition of notation, various methods of estimating parameters and determining sample size*	Sampling Acak Sederhana (SAS): prosedur, definisi notasi, berbagai metode penaksiran parameter. Pemahaman sub populasi dan penaksirannya *Simple Random* 1. Sampling (SAS): procedures, notation definitions, various parameter estimation methods. Understanding the sub- population and its assessment	Ceramah, diskusi , Latihan soal *Lecture, discussion* Exercise	TM: 2x3x50" LT: 2x3x60" BM: 2x3x60" *L: 2x3x50"* *EA: 2x3x60"* *IL: 2x3x60"*	Tugas/latihan soal Diskusi dalam membuat rancangan sampling dengan metode SAS Kuis 1 *Task / practice questions Discussion in making a sampling design with the SAS method* *Quiz 1*	2.1 Mampu membuat Rancangan Sampling Acak Sederhana untuk sebuah survey tertentu 2.2 Mampu menentukan besar ukuran sampel serta melakukan proses pengambilannya 2.3. Mampu menghitung taksiran parameter rata-rata, total, proporsi, varians 2.4. Mampu menjelaskan penaksiran didasarkan pada sub populasi. *2.1 Able to make random sampling design Simple for a particular survey* *2.2 Able to determine sample size as well do the taking process* *2.3. Able to calculate average, total, proportion, variance parameter estimates*	10/15%

						Be able to explain assessments based on sub-populations.	
4-5	Sampling Acak Stratifikasi (SAStra) : prosedur, definisi notasi, berbagai metode penaksiran parameter dan penentuan ukuran sampel pada SAStra *Stratified Random Sampling (STRA): procedures, notation definitions, various methods of estimating parameters and determining sample size in STRA*	1. Sampling Acak Stratifikasi (SAStra) *Stratified Random Sampling (SAStra)*	Ceramah, diskusi, Latihan soal Prakt lapngn *Lecture, discussion, exercises* Field practicum	TM: 2x3x50" LT: 2x3x60" BM: 2x3x60" *L: 2x3x50"* *EA: 2x3x60"* *IL: 2x3x60"*	Latihan soal Tugas Individu 2 *Exercise Individual Task 2*	4.1 Mampu menentukan Rancangan Sampling Acak Stratifikasi untuk sebuah survei dari kasus riil 4.2 Mampu menghitung taksiran parameter rata-rata, total dan proporsi, varians besaran ukuran sampel 4.3 Mampu menentukan anggota Strata dengan aturan Optimal Mampu menerapkan proses pengambilan sampel dengan metode Sistematik Sampling *4.1 Able to determine a stratified random sampling design for a survey of real cases* *4.2 Able to calculate the estimated parameter mean, total and proportion, variance of sample size* 4.3 *Able to determine Strata members with Optimal rules Able to apply the sampling process with the systematic sampling method*	5% /20%
6	Sampling Sistematik (SS): prosedur, definisi notasi, berbagai metode penaksiran parameter dan	1. Sampling Sistematik (SS) *Systematic Sampling (SS)*	Ceramah, diskusi , Latihan soal Praktek membuat	TM: 3x50" LT: 3x60" BM: 3x60" *L: 3x50"* *EA: 3x60"* *IL: 3x60"*	Latihan soal Diskusi merancang sistematik sampling *Exercises*	3.1 Mampu menentukan Rancangan Sampling Siste-matik untuk survey tertentu (menggunakan kasus	-/20%

No							
	penentuan ukuran sampel pada SY *Systematic Sampling (SYC): procedure, definition of notation, various methods of estimating parameters and determining sample size in SYC*		rancangan sampling dengan metode sistematik *Lecture, discussion, exercises Practice making a sampling design* *with a* *systematic method*		*Discussion on designing systematic sampling*	riil) 3.2 Mampu menghitung taksiran parameter rata-rata, total , proporsi, varians 3.3 Mampu menentukan besar ukuran sampel serta melakukan proses pengambilannya 4.4 Mampu menerapkan proses pengambilan sampel dengan metode Sistematik Sampling *3.1 Able to determine the Sampling System Design automatic for certain surveys (using real cases)* *3.2 Able to calculate average parameter estimates, total, proportion, variance 3.3 Able to determine sample size as well do the taking process* *4.4 Able to apply the sampling process with the systematic sampling method*	
7	Sampling Klaster Satu Tahap (SK 1 tahap): prosedur, definisi notasi, berbagai metode penaksiran parameter dan penentuan ukuran sampel pada SK 1 tahap	Sampling Sistematik (SS) *Systematic Sampling (SS)*	Ceramah, diskusi , Latihan soal Praktek membuat rancangan	TM: 3x50" LT: 3x60" BM: 3x60" *L: 3x50"* *EA: 3x60"* *IL: 3x60"*	Latihan soal Diskusi merancang sistematik sampling *Exercises* *Discussion on designing* *systematic sampling*	3.4 Mampu menentukan Rancangan Sampling Siste-matik untuk survey tertentu (menggunakan kasus riil) 3.5 Mampu	-/20%

			sampling dengan metode sistematik *Lecture, discussion, exercises Practice making a sampling design with a systematic method*			menghitung taksiran parameter rata-rata, total , proporsi, varians 3.6 Mampu menentukan besar ukuran sampel serta melakukan proses pengambilannya 4.4 Mampu menerapkan proses pengambilan sampel dengan metode Sistematik Sampling *3.3 Able to determine the Sampling System Design automatic for certain surveys (using real cases)* *3.4 Able to calculate average parameter estimates, total, proportion, variance 3.3 Able to determine sample size as well do the taking process* *4.4 Able to apply the sampling process with the systematic sampling method*	
One-Stage Cluster Sampling (1-stage CLU): procedure, definition of notation, various parameter estimation methods and determining sample size in 1-stage CLU							
8				**ETS/***Midterm*			
9	Kombinasi Stratified dan Sampling Klaster : prosedur, definisi notasi, dan metode penaksiran parameter *Combination of Stratified and Cluster Sampling: procedures, notation*	Sampling Klaster Satu Tahap (SK 1 thp) 1. *One-stage Cluster Sampling (1-stage SK)*	Ceramah, diskusi , Latihan soal *Lectures, Discussions, Exercise*	TM: 2x3x50" LT: 2x3x60" BM: 2x3x60" *L: 2x3x50"* *EA:*	Tugas Individu 3 : Cluster Aktifitas di kelas *Individual Task 3: Clusters Class activities*	5.1 Mampu menentukan Rancangan Sampling Klaster (SK) Satu Tahap untuk kasus riil 5.2 Mampu menghitung taksiran parameter rata-rata, total dan proporsi, besaran	10% / 50%

	definitions, and parameter estimation methods			*2x3x60"* *IL: 2x3x60"*		ukuran sampel serta melakukan proses pengambilannya 5.3 Mampu menentukan ukuran sampel dengan teknik SK satu tahap 5.1 Mampu melakukan kombinasi SAStra dan SK satu tahap*Able to determine the One- Stage Cluster Sampling Design (SK) for real cases* *5.2 Able to calculate average, total and proportion parameter estimates, sample size and carry out the collection process* *5.3 Able to determine sample size using the one-stage SK technique* *Able to do a one-stage combination of SAStra and SK*	
10	Sampling Klaster Dua Tahap (SK 1 tahap) :prosedur, definisi notasi, berbagai metode penaksiran parameter dan penentuan ukuran sampel pada SK 2 tahap *Two-Stage Cluster Sampling (1-stage CLU): procedure, definition of notation, various parameter estimation methods and determining sample size in 2-stage CLU*	Sampling Klaster Dua Tahap (SK 2 thp) *1. Two-stage Cluster Sampling (2-stage SK*	Ceramah, diskusi , Latihan soal Praktek penerapan *Lectures, discussions, practice questions Practice of application*	TM: 3x50" LT: 3x60" BM: 3x60" *L: 3x50"* *EA: 3x60"* *IL: 3x60"*	Aktifitas di kls, Observasi lapangan (K. 1 dan 2 tahap , kombinasi *Class activities, Field observations (K. 1 and 2 stages, combination*	6.1 Mampu menentukan Rancangan Sampling Klaster (SK) dua Tahap untuk kasus riil 6.2 Mampu menghitung taksiran parameter rata-rata, total dan proporsi 6.3 Mampu melakukan proses pengambilan sampeldengan teknik SK 2 tahap *6.1 Able to determine a two-stage cluster sampling design (SK) for real cases*	-/ 60%

							Able to calculate average, total and proportion parameter estimates 6.3 Able to carry out the sampling process using the 2-stage SK technique	
11	Wildlife Sampling *Wildlife Sampling*	Wildlife Sampling *1. Wildlife Sampling*	Ceramah, diskusi , Latihan soal *Lectures, Discussions, Exercise*	TM: 3x50" LT: 3x60" BM: 3x60" *L: 3x50"* *EA: 3x60"* *IL: 3x60"*	Diskusi Aktifitas di kelas Kuis 2 *Discussion Class activities Quiz 2*	7.1 Dapat menjelaskan prosedur pengambilan sampel dengan metode Direct dan Invers 7.2 Dapat menghitung taksiran ukuran populasi dan menentukan ukuran sampel pertama dan kedua *7.1 Can explain the sampling procedure using the Direct and Inverse methods* *7.2 Can calculate estimated population size and determine first and second sample sizes*	10/ 60%

12-14	Manajemen Survei dan Final Project (Praktek Survei Pemetaan Lokasi sampel terpilih) *Survey Management and Final Project (Selected Sample Location Mapping Survey Practice)*	Organisasi Survei dan **Final Project** (Praktek Survei Pemetaan Lokasi sampel terpilih) *Survey Organization and Final Project (Survey Mapping* *1. Practice Selected sample locations)*	Diskusi, Praktek lapgn (kelompok) : 1. merancang splg, 2. survei lokasi, pemetaan lokasi dari unit sampling terpilih *Discussion, practicefield (group):* *1. design splg,* *2. location survey, mapping the location of the selected sampling unit*	TM: 2x3x50" LT: 2x3x60" BM: 2x3x60" *L: 2x3x50"* *EA: 2x3x60"* *IL: 2x3x60"* TM: 3x50" LT: 3x60" BM: 3x60" *L: 3x50" EA: 3x60"* *IL: 3x60"*	Final Project : Merancang Sampling 8.2 Presentasi, Laporan hasil *8.3 Final Project:Designing SamplingPresentation, Report on results Can organize field surveys (survey management)* *Can draw / map the location of the selected sampling unit in the research area*	8.1 Dapat membuat/menentukan rancangan sampling sesuai kasus 8.2 Dapat mengorganisasi survei lapangan (manajemen survei) 8.3 Dapat membuat gambar/ pemetaan lokasi unit sampling terpilihnya pada wilayah penelitian *8.1 Can make / determine the sampling design according to the case*	20%/80%
15-16		**Presentasi Final Project/** *Final Project Presentation*					

		RENCANA ASESMEN & EVALUASI	RA&E
		RENCANA ASESMEN & EVALUASI *Assessment and Evaluation Plan* Program Studi Sarjana Statistika / *Statistics Undergraduate Program* **PENGANTAR ANALISIS SURVIVAL /** *INTRODUCTION OF SURVIVAL ANALYSIS*	**RA&E** SLK-10

Kode MK: SS234310 *Course Code:* *SS234310*	**Bobot sks (T/P): 3** *CREDITS : 3*	**Rumpun MK:** Statistika Teori dan Pemodelan *Course cluster:* *Statistical Theory and Modeling*	Smt: III *Semester III*
OTORISASI *AUTHORIZATION*	**Penyusun** *Author* Dr. Dra. Ismaini Zain, M.Si	**Koordinator RMK** *Coordinator of course cluster* Dr. Dra. Ismaini Zain, M.Si	**Kaprodi** *Head of Department* Dr. Dra. Kartika Fithriasari, M.Si

Mg ke (1)	Sub CP-MK (2)		Bentuk Asesmen (Penilaian) / *Evaluation Type* (3)	Bobot / Scoring (%) (4)
	No	Kemampuan akhir / *Final Capability*		
1		Konsep teknik Sampling, estimasi parameter, prinsip teknik sampling, kemungkinan bias, proses pengambilan sampel secara acak *Concept of sampling techniques, parameter estimation, principles of sampling techniques, possibility of bias, random sampling process*	Tugas *Task*	5%/5%
2-3		Sampling Acak Sederhana (SAS): prosedur, definisi notasi, berbagai metode penaksiran parameter dan penentuan ukuran sampel *Simple Random Sampling (SRS): procedure, definition of notation, various methods of estimating parameters and determining sample size*	Tugas *Task*	10/15%
4-5		Sampling Acak Stratifikasi (SAStra) : prosedur, definisi notasi, berbagai metode penaksiran parameter dan penentuan ukuran sampel pada SAStra	Kuis *Quiz*	5% /20%

		Stratified Random Sampling (STRA): procedures, notation definitions, various methods of estimating parameters and determining sample size in STRA		
6		Sampling Sistematik (SS): prosedur, definisi notasi, berbagai metode penaksiran parameter dan penentuan ukuran sampel pada SY *Systematic Sampling (SYC): procedure, definition of notation, various methods of estimating parameters and determining sample size in SYC*		-/20%
7		Sampling Klaster Satu Tahap (SK 1 tahap): prosedur, definisi notasi, berbagai metode penaksiran parameter dan penentuan ukuran sampel pada SK 1 tahap *One-Stage Cluster Sampling (1-stage CLU): procedure, definition of notation, various parameter estimation methods and determining sample size in 1-stage CLU*		-/20%
8		**ETS/*Midterm***		15%
9		Kombinasi Stratified dan Sampling Klaster : prosedur, definisi notasi, dan metode penaksiran parameter *Combination of Stratified and Cluster Sampling: procedures, notation definitions, and parameter estimation methods*		10% / 50%
10		Sampling Klaster Dua Tahap (SK 1 tahap) :prosedur, definisi notasi, berbagai metode penaksiran parameter dan penentuan ukuran sampel pada SK 2 tahap *Two-Stage Cluster Sampling (1-stage CLU): procedure, definition of notation, various parameter estimation methods and determining sample size in 2-stage CLU*		-/ 60%
11		Wildlife Sampling *Wildlife Sampling*		10/ 60%
12-14		Manajemen Survei dan Final Project (Praktek Survei Pemetaan Lokasi sampel terpilih)		20%/80%

	Survey Management and Final Project (Selected Sample Location Mapping Survey Practice)			
15-16	Presentasi Final Project *Final Project Presentation*			15%
	Total Bobot Penilaian			**100%**