MODULE HANDBOOK

36.11		G 1 D .	. 1 .		1				
Module name		Categorical Data Analysis							
Module-level, if applicable		3 rd year							
Code, if applicable		SST-504							
Semester(s) in which the		5 th (fifth)							
module is taught									
Person responsible for the		Dina Tri Utari, S.Si., M.Sc.							
module									
Lecturer		Dr. Jaka Nugraha, M.Si							
Language		Bahasa Indonesia							
Relation to curriculum		Compulsory course in the third year (5nd semester) Bachelor Degree							
Types of	Class size	Attendance time	Form of active	Workload					
teaching and		(hours per week	participation	(hours per semester)					
learning		per semester)							
Lecture	50-60	1.67	Problem	Face to face teaching	23.33				
			solving	Structured activities	32				
				Independent study	32				
				Exam	3.33				
Total Workload	1	90.67 hours							
Credit points		2 CUs / 3.4 ECTS							
Requirements a	ccording to	Minimum attendance at lectures is 75%. Final score is evaluated based							
		on assignment, mid-term exam, and final exam.							
the examination regulations Recommended prerequisites		Statistical Methods II (SST-204)							
Related Course		Applied Multivariate Statistics (SST-602)							
Related Course		After completing this course, the students have ability to:							
		CO1. do statistical inference for a proportion in Binomial Distribution							
Module objecti	was/intended	and Multinomial Distribution.							
	Module objectives/intended		CO2. do tests of independence for contingency tables using Fisher's						
learning outcomes		Exact Test and Chi-squared tests							
		CO3. do statistical inference in Loglinear model.							
		CO4. perform logistic regression model in binary, nominal and ordinal							
		data.							
		1. Probability Distributions for Categorical Data (Binomial,							
		Multinomial and Poisson)							
		2. Statistical Inference for a Proportion (Likelihood Ratio, Wald							
		Test, Score Test. Goodness of Fit Test. Exact Inference for Small							
		Samples.							
		3. Contingency Tables: Comparing Proportions, Odds Ratio, Chi-							
Content		Squared Tests of Independence.							
		4. Loglinear models : Multinomial and Poisson Sampling, Notations,							
		saturated model and independence model, inference for models							
		parameter, fitting model.							
		5. Logistic Regression: Interpreting, inference and model building							
		Logistic Regression Model for binary, Nominal and Ordinal							
		response							
		The final mark wi							
Study and examination requirements and forms of examination		No Assessme	nt Assessmen	• 1	eight				
		componer			rcentage)				
		1 CO1		t, Midterm Exam 259					
		2 CO2		t, Midterm Exam 259					
		3 CO3		t, Final Exam 259	%				
		4 CO4	Assignmen	t, Final Exam 259	%				

Media employed	Google Classroom, relevant websites, slides (power points), video, interactive media, white-board, laptop, LCD projector				
Reading list	 Nugraha, Jaka, 2014, "Pengantar Analisis Data Kategorik menggunakan progran R", Deepublih Alan Agresti, 2007, "An Introduction to Categorical Data Analysis", Second Edition, John Wiley & Son. Nugraha, Jaka, 2017," Pemodelan Data Nominal, Ordinal dan Cacah", Universitas Islam Indonesia 				

Mapping CO, PLO, and ASIIN's SSC

ASIIN		PLO											
		E	N	T	Н	U	S	I	A	S	T	I	C
Knowledge	a												
	b												
	c								CO1				
	d												
Ability	e								CO2				
	f												
Competency	g								CO4				
	h								CO3				
	i												
	j												
	k												
	l												