

## MODULE HANDBOOK

Module name		Practicum of Categorical Data Analysis																							
Module-level, if applicable		3 <sup>rd</sup> year																							
Code, if applicable		SST-507																							
Semester(s) in which the module is taught		5 <sup>th</sup> (fifth)																							
Person responsible for the module		Arum Handini Primandari, S.Pd.Si., M.Sc.																							
Lecturer		Dr. Jaka Nugraha, M.Si																							
Language		Bahasa Indonesia																							
Relation to curriculum		Compulsory course in the third year (5 <sup>th</sup> semester) Bachelor Degree																							
Types of teaching and learning	Class size	Attendance time (hours per week per semester)	Form of active participation	Workload (hours per semester)																					
Lab work	25-30	0.83	Problem solving	Face to face teaching	13.33																				
				Structured activities	27																				
				Exam	5																				
Total workload		45.33 hours																							
Credit points		1 CU / 1.7 ECTS																							
Requirements according to the examination regulations		Minimum attendance at lectures is 75%. Final score is evaluated based on pre-test, assignment, and practicum final exam.																							
Recommended prerequisites		Statistical Methods II (SST-204)																							
Related course		Applied Multivariate Statistics (SST-602)																							
Module objectives/intended learning outcomes		<p>After completing this course, the students have can utilize Ms. Excel, SPSS, Minitab, R in:</p> <p>CO1. proportion computing in Binomial Distribution and Multinomial Distribution</p> <p>CO2. independence testing for contingency tables using Fisher's Exact Test and Chi-squared tests</p> <p>CO3. parameter estimating in Loglinear model.</p> <p>CO4. parameter estimating in Logistic regression model.</p>																							
Content		<ol style="list-style-type: none"> <li>1. Using Ms. Excel and R to compute Probability Distributions for Categorical Data (Binomial, Multinomial and Poisson)</li> <li>2. Using SPSS, Minitab and R to compute in : <ol style="list-style-type: none"> <li>a) Statistical Inference for a Proportion (Likelihood Ratio, Wald Test, Score Test. The goodness of Fit Test. Exact Inference for Small Samples.</li> <li>b) Statistical Inference for Comparing Proportions, Odds Ratio, Chi-Squared Tests of Independence.</li> <li>c) Statistical Inference for Loglinear models</li> <li>d) Statistical Inference for Logistic Regression</li> </ol> </li> </ol>																							
Study and examination requirements and forms of examination		<p>The final mark will be weighted as follows:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No</th> <th>Assessment components</th> <th>Assessment types</th> <th>Weight (percentage)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CO1</td> <td>Assignment</td> <td>25%</td> </tr> <tr> <td>2</td> <td>CO2</td> <td>Assignment</td> <td>25%</td> </tr> <tr> <td>3</td> <td>CO3</td> <td>Assignment</td> <td>25%</td> </tr> <tr> <td>4</td> <td>CO4</td> <td>Assignment</td> <td>25%</td> </tr> </tbody> </table>				No	Assessment components	Assessment types	Weight (percentage)	1	CO1	Assignment	25%	2	CO2	Assignment	25%	3	CO3	Assignment	25%	4	CO4	Assignment	25%
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1	CO1	Assignment	25%																						
2	CO2	Assignment	25%																						
3	CO3	Assignment	25%																						
4	CO4	Assignment	25%																						
Media employed		Google Classroom, relevant websites, slides (power points), video, interactive media, white-board, laptop, LCD projector																							
Reading list		1. Nugraha, Jaka, 2014, "Pengantar Analisis Data Kategorik menggunakan program R", Deepublish																							

	<p>2. Alan Agresti, 2007, “An Introduction to Categorical Data Analysis”, Second Edition John Wiley &amp; Son.</p> <p>3. Nugraha, Jaka, 2017,” Pemodelan Data Nominal, Ordinal dan Cacah”, Universitas Islam Indonesia</p>
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Mapping CO, PLO, and ASIIN’s SSC

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