



UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences

Department of Computer Science and Electronics

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Bachelor in Computer Science

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MODULE HANDBOOK

Module name	Introduction to Statistics
Module level, if applicable	Bachelor
Code, if applicable	MII21-1203
Courses, if applicable	Introduction to Statistics
Semester(s) in which the module is taught	Spring (Even)
Person responsible for the module	Dr. Agus Sihabuddin, S.Si., M.Kom.
Lecturer(s)	Dr. Agus Sihabuddin, S.Si., M.Kom. Faizal Makhrus, S.Kom., M.Sc., Ph.D.
Language	Bahasa Indonesia and English
Relation to curriculum	Bachelor degree, compulsory, 2 nd semester.
Teaching methods	100 minutes of lectures and 120 minutes of structured activities per week.
Workload (incl. contact hours, self-study hours)	1. Lectures: 2 x 50 = 100 minutes (1.67 hours) per week. 2. Exercises and Assignments: 2 x 60 = 120 minutes (2 hours) per week. 3. Private study: 2 x 60 = 120 minutes (2 hours) per week.
Credit points	2 credit points.
Requirements according to the examination regulations	A student must have attended at least 75% of the lectures to sit in the exams.
Required and recommended prerequisites for joining the module	-

<p>Learning outcomes and their corresponding PLOs</p>	<p>After completing this module, a student is expected to:</p> <p>CO1. Able to understand and explain the concept of probability and its application.</p> <p>CO2. Able to understand and explain the concept of measure of central tendency and its application.</p> <p>CO3. Able to understand and explain the concept of distribution and its application.</p> <p>CO4. Able to understand and explain the concept of one variable statistical inferention and its application.</p> <p>CO5. Able to understand and explain the concept of two variables statistical inferention and its application.</p> <p>CO6. Able to understand and explain the concept of two population statistical inferention and its application</p> <table border="1" data-bbox="630 688 1339 947"> <thead> <tr> <th colspan="2">PLO</th> <th>CO 1</th> <th>CO 2</th> <th>CO 3</th> <th>CO 4</th> <th>CO 5</th> <th>CO 6</th> </tr> </thead> <tbody> <tr> <td rowspan="5">Program Learning Outcome (PLO)</td> <td>PLO1</td> <td>√</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PLO2</td> <td></td> <td>√</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PLO3</td> <td></td> <td></td> <td>√</td> <td></td> <td></td> <td></td> </tr> <tr> <td>PLO4</td> <td></td> <td></td> <td></td> <td>√</td> <td></td> <td></td> </tr> <tr> <td>PLO5</td> <td></td> <td></td> <td></td> <td></td> <td>√</td> <td>√</td> </tr> </tbody> </table>	PLO		CO 1	CO 2	CO 3	CO 4	CO 5	CO 6	Program Learning Outcome (PLO)	PLO1	√						PLO2		√					PLO3			√				PLO4				√			PLO5					√	√
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<p>Content</p>	<ol style="list-style-type: none"> 1. Probability 2. Measure of central tendency 3. Distributions 4. One variable statistical inferention 5. Two variable statistical inferention <p>two population statistical inferention</p>																																												
<p>Study and examination requirements and examination forms</p>	<p>The evaluation is done in 2 forms, namely:</p> <ol style="list-style-type: none"> 1. Trial, either midterm or semester test, 2. Two tasks, including individual, 3. Two group assignments to be completed within a certain timeframe, and <p>Assessment is done using benchmark assessment, with the aim of measuring the level of student understanding related to the target and class rank.</p>																																												
<p>Media employed</p>	<p>e-learning Platform (ELOK), LCD, blackboard, and websites.</p>																																												

Assessments and evaluation	Type	Percentage	C O 1	C O 2	C O 3	C O 4	C O 5	C O 6
	Task 1	10	√		√			
	Group Task 1	15		√				
	Midterm Test	25	√	√	√			
	Task 2	10			√			
	Group Task 2	15				√		
	Final Test	25				√	√	√
	Total	100						
	Reading list	<ol style="list-style-type: none"> 1. Introduction to Statistics, Lane, D.M, et al, 2022 (online) 2. An Introduction to Statistical Methods and Data Analysis, 7th Edition, Ott., R.L., Longnecker, M.T. 2016 						

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