UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF SCIENCE EDUCATION
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Bachelor of Education in Science **MODULE HANDBOOK**

Module name:	**Applied Statistics**
Module level, if applicable:	Undergraduate
Code:	IPA6242
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	4th
Module coordinator:	Dr. Dadan Rosana, M.Si
Lecturer(s):	Dr. Dadan Rosana, M.Si and Didik Setyawarno, M.Pd.
Language:	Bahasa Indonesia
Classification within the curriculum:	Optional Course
Teaching format / class hours per week during the semester:	100 minutes lectures and 120 minutes structured activities per week.
Workload:	Total workload is 90,67 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes individual study per week for 16 weeks.
Credit points:	2 sks (3 ECTS)
Prerequisites course(s):	Statistics (MKU6210)
Targeted learning outcomes:	After taking this course the students have ability to: CO 1. Understand the basic concepts of descriptive statistics and their use in presenting research result data CO 2. Understand the basic concepts of the test the assumption or pre requisites analysis and implement it in the determination of statistical tests CO 3. Understand the basic concepts of statistics inferensial which includes parametric and non parametric and apply it in the test results data CO 4. Students understand the basic concept of correlation and regression analysis and apply them in the test results data

<table>
<tr><td></td><td>CO 5. Having the ability to use computer applications (SPSS) for the data analysis of the results of research</td></tr>
<tr><td>Content:</td><td>This course discusses how the data processing results of research that includes (a) introduction to applied statistics, (b) descriptive statistics, (c) test the assumption or pre requisites analysis, (d) inferensial which includes statistical parametric and non parametric (e) analysis of correlation and regression, and (f) the validity and reliability of research instruments</td></tr>
<tr><td>Study / exam achievements:</td><td>Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude. The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude.

The final mark will be weight as follow:

<table>
<tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr>
<tr><td>1</td><td>CO1
CO2,
CO3
CO4
And
CO5</td><td>a. Individual Assignment
b. Group Assignment
c. Mid
d. Final Exam</td><td>Presentation / written test</td><td>15%

15%
15%
25%
30%</td></tr>
<tr><td colspan="4">Total</td><td>100%</td></tr>
</table>
</td></tr>
<tr><td>Forms of media:</td><td>Board, LCD Projector, Laptop/Computer</td></tr>
<tr><td>Literature:</td><td>A. Compulsory
1. Dadan Rosana. 2012. Applied Statistics For Educational Research. Yogyakarta: FMIPA UNY.
2. Didik Setyawarno. 2016. Panduan Spss Untuk Statistik Terapan. Yogyakarta: FMIPA UNY.
3. E. Walole, Ronald. 2000. Pengantar Statistika. Jakarta: Gramedia.
4. Subana, Moersetyo Rahadi, & Sudrajat. 2000. Statistik Pendidikan. Bandung: Pustaka Setia.

Recommendations
1. Fathor Rachman Uthman. 2015. Panduan Statistika Pendidikan. Wonosasri: Diva Press.
2. Gunardi & A. Rakhman. 2003. Metode Statistika. Yogyakarta: FMIPA UGM</td></tr>
</table>

PLO and CO mapping

	PLO											
	Attitude			Knowledge				Spesific SKill				
	PLO1	PLO2	PLO3	PLO1	PLO2	PLO3	PLO4	PLO1	PLO2	PLO3	PLO4	PLO5
CO1				✓	✓							

CO2					✓	✓						
CO3					✓	✓						
CO4					✓	✓						
CO5					✓	✓	✓					