



UNIVERSITAS NEGERI YOGYAKARTA  
FACULTY OF MATHEMATICS AND NATURAL SCIENCES  
DEPARTMENT OF PHYSICS EDUCATION  
**PHYSICS STUDY PROGRAM**

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**Bachelor of Physics**

**MODULE HANDBOOK**

Module name:	Geophysical Survey Methods
Module level, if applicable:	Undergraduate
Code:	FSK6371
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	5 <sup>th</sup>
Module coordinator:	Khafidh Nur Aziz, M.Sc.
Lecturer(s):	Khafidh Nur Aziz, M.Sc.
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective Course
Teaching format / class hours per week during the semester:	100 minutes lectures, 100 minutes labwork, 180 minutes structured activities, and 180 minutes individual study per week
Workload:	Total workload is 149 hours per semester which consists of 100 minutes lectures, 100 minutes labwork, 180 minutes structured activities, and 180 minutes individual study per week for 16 weeks.
Credit points:	3 SKS (4.86 ECTS)
Prerequisites course(s):	-
Course Outcomes	CO1. mastering the main points of study, development, and application of geophysics CO2. analyze the scientific development of geophysics and its applications. CO3. analyze the data using computational programme.

Content:	This course discusses definition, object, problem, geophysical field; earth structure; geophysical surveys; data acquisition and data processing.																								
Study / exam achievements:	<p>The final mark will be weight as follow:</p> <table border="1"> <thead> <tr> <th>No</th> <th>CO</th> <th>Assessment Object</th> <th>Assessment Technique</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td rowspan="3">1</td> <td rowspan="3">CO1 and CO2</td> <td>a. Assignment (Individual, Case Study)</td> <td rowspan="3">Written Test</td> <td>30%</td> </tr> <tr> <td>b. Mid</td> <td>20%</td> </tr> <tr> <td>c. Final Exam</td> <td>25%</td> </tr> <tr> <td>2</td> <td>CO3</td> <td>Labwork</td> <td>Performance assessment</td> <td>25%</td> </tr> <tr> <td colspan="4">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO1 and CO2	a. Assignment (Individual, Case Study)	Written Test	30%	b. Mid	20%	c. Final Exam	25%	2	CO3	Labwork	Performance assessment	25%	Total				100%
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		b. Mid		20%																					
		c. Final Exam		25%																					
2	CO3	Labwork	Performance assessment	25%																					
Total				100%																					
Forms of media:	Board, LCD Projector, Laptop/Computer																								
Literature:	<p>A. Dentith, M. &amp; Mudge, S.T. 2014. Geophysics for the Mineral Exploration Geoscientist. Cambridge: Cambridge University Press.</p> <p>B. Lowrie, W. 2007. Fundamental of Geophyscis 2nd Edition. Cambridge: Cambridge University Press.</p> <p>C. Lillie, R.J. 1999. Whole Earth Geophysics: an Introductory Textbook for Geologist and Geophysicist. New Jersey: Prentice Hall.</p> <p>D. Telford, et al. 1990. Applied Geophysics 2nd Edition. Cambridge: Cambridge University Press.</p>																								

### PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8
CO1		√						
CO2		√			√			
CO3		√			√			