UIN SUNAN KALIJAGA YOGYAKARTA
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Undergraduate Programme in Physics

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MODULE HANDBOOK

Module Name	Geophysics
Module level, if applicable	Bachelor
Code, if applicable	FIS424028
Subtitle, if applicable	-
Courses, if applicable	Geophysics (Geofisika)
Semester(s) in which the module is taught	4st (fourth)
Person responsible for the module	Dr. Thaqibul Fikri Niyartama, S.Si., M.Si
Lecturer(s)	Dr. Thaqibul Fikri Niyartama, S.Si., M.Si
Language	Indonesia
Relation to curriculum	Elective course in the second year (4th semester) Bachelor Degree
Type of teaching, contact hours	100 minutes lectures and 120 minutes structured activities per week.
Workload	Total workload is 90.7 hours per semester, which consists of 100 minutes lectures per week for 14 weeks, 120 minutes structured activities per week, 120 minutes individual study per week, in total is 16 weeks per semester, including mid exam and final exam
Credit points	2
Requirements according to the examination regulations	
Recommended prerequisites	No prerequisites stated on
Module objectives/intended learning outcomes (CPMK)	After completing this course, the students: CO 1. Able to explain the concept of humans as caliph fil ardl in managing natural resources; CO 2. Able to explain the physical and geological characteristics of the earth and other planets in the solar system in a structured and systematic manner CO 3. Able to explain the internal structure of the earth based on physical methods in a structured and systematic manner. CO 4. Able to recognize the physical characteristics of geological phenomena on the earth's surface through simple geophysical methodology to obtain an overview of subsurface models and the dynamics of the earth's crust
Content	1. The concept of humans as caliph fil ardl in managing natural resources 2. Earth as a planet and earth dynamics 3. Gravity Method 4. Seismology 5. Earth's heat and electricity 6. Magnetic Method 7. Electromagnetic Method

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Study and examination requirements and forms of examination

The final mark will be weighted as follows:

NO	Assessment methods (components, activities)	Weight (percentage)
1	Final Examination	40%
2	Mid-Term Examination	30%
3	Class Activities: Quiz, Homework, etc.	30%

The final assessment is expressed in the form of a letter value converted from a number value with the following categories:

NO	Number Value	Letter Value	NO	Number Value	Letter Value
1	≥ 95	A	7	65-69.99	B/C
2	90-94.99	A-	8	60-64.99	C+
3	85-89.99	A/B	9	55-59.99	C
4	80-84.99	B+	10	50-54.99	C-
5	75-79.99	B	11	55-34.99	D
6	70-74.99	B-	12	<35	E

Media employed: White-board, Lcd Projector, e-learning (https://daring.uin-suka.ac.id/)

Reading list:

1. Lowrie, W., 2007, Fundamentals of Geophysics, Cambridge University Press, UK.
2. Telford, M.W., et al, 1976, Applied Geophysics, Cambridge University Press, UK.
3. Sharma, P.V., 1997. Environmental and engineering Geophysics, Cambridge University Press, UK.

PLO and CO Mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9
CO 1		√	√	√					
CO 2		√	√	√					
CO 3		√	√	√					
CO 4		√	√	√					