



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:	Earth and Space Physics
Module level, if applicable:	Undergraduate
Code:	FSK6268
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	5 th
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, 120 minutes structured activities, and 120 minutes individual study 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 (3.25 ECTS)
Prerequisites course(s):	-
Course Outcomes	CO1. mastering important concepts of earth science CO2. explain physical processes of earth's systems: geological, astronomical, atmospheric, and hydrological. CO3. observe and interpret landscapes and other aspects of their physical environment.

Content:	This course discusses an introduction to earth science and physical processes of geological, astronomical, atmospheric, and hydrological.																		
Study / exam achievements:	The final mark will be weight as follow: <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>1</td><td>CO1, CO2, and CO3</td><td>a. Assignment (Individual, Case Study) b. Mid c. Final Exam</td><td>Written Test</td><td>50% 25% 3%</td></tr> <tr> <td colspan="4">Total</td><td>100%</td></tr> </tbody> </table>				No	CO	Assessment Object	Assessment Technique	Weight	1	CO1, CO2, and CO3	a. Assignment (Individual, Case Study) b. Mid c. Final Exam	Written Test	50% 25% 3%	Total				100%
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1	CO1, CO2, and CO3	a. Assignment (Individual, Case Study) b. Mid c. Final Exam	Written Test	50% 25% 3%															
Total				100%															
Forms of media:	Board, LCD Projector, Laptop/Computer																		
Literature:	A. Marshak, S. & Rauber, R. 2017. Earth Science, The Earth, The Atmosphere, and Space: New York: W. W. Norton and Company. B. Reynold, S.J. & Johnson, J.K. 2019. Exploring Earth Science 2nd Edition. New York: Mc Graw Hill. C. Plummer, C.C., Carlson, D.H., & Hammersley, L. 2016. Physical Geology 15th Edition. New York: Mc Graw Hill.																		

PLO and CO mapping

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