



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:	Meteorology and Climatology
Module level, if applicable:	Bachelor Program
Code:	FSK6272
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	5
Module coordinator:	Denny Darmawan, M.Sc.
Lecturer(s):	Denny Darmawan, M.Sc., Dr. Sukardiyono
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective Course
Teaching format / class hours per week during the semester:	Lecture (100 minutes lectures and 120 minutes structured activities).
Workload:	Total workload is around 91 hours in one semester which consists of 100 minutes of lectures, 120 minutes of structured activities, and 120 minutes of individual study per week for 16 weeks.
Credit points:	2 SKS (3.25 ECTS)
Prerequisites course(s):	-
Course Outcomes	Students graduating from this course will be able to: CO1. Analyze the meteorological parameters (solar radiation, temperature, humidity, precipitation, cloud coverage, air

	<p>pressure, wind and air mass) to explain the weather and climate phenomena.</p> <p>CO2. Analyze the climate change and climate variability</p>
Content:	<p>This course discusses the basic concepts of atmospheric phenomena and their parameters (solar radiation, temperature, humidity, precipitation, cloud, air pressure, wind and air mass). This course also discusses the climate variability phenomena and the issue of climate change</p>
Study / exam achievements:	<p>The final grade will be weighted as follow:</p> <ul style="list-style-type: none"> a. Case study : 20% b. Group project : 30% c. Midterm exam: 20% d. Final exam : 30%
Forms of media:	Board, LCD Projector, Laptop/Computer
Reference:	<ol style="list-style-type: none"> 1. Lutgens & Tarbuck, 2016, The Atmosphere: An Introduction to Meteorology 13th ed., Pearson 2. Rohli & Vega, 2018, Climatology, 4th ed., Jones & Bartlett

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8
CO1		✓			✓			
CO2		✓			✓			