



**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:	Philosophy of Physics
Module level, if applicable:	Bachelor Programme
Code:	FSK6324
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	6 <sup>rd</sup>
Module coordinator:	Dr. R. Yosi Aprian Sari, M.Si
Lecturer(s):	Suparno, M.App.Sc., Ph.D.
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective Course
Teaching format / class hours per week during the semester:	100 minutes lectures and 120 minutes structured activities per week
Workload:	Total workload is 91 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
Prerequisites course(s):	
Course Outcomes	After taking this course the students have ability to: CO1. Demonstrate a collaborative and independent attitude in carrying out individual and group tasks CO2. Know the history of physics from the Greek to the modern era CO3. Mastering the Development of the Scientific Method CO4. Disseminating Scientific Research Results
Content:	The materials studied include: The history of science from the Greek era to the Renaissance, Development of the scientific method, Development of Classical Physics: Mechanics, Heat, Optics, Electromagnetism, Atom, Development of Modern Physics: Relativity and Quantum Physics, The Unification of Physical Phenomena, Dissemination of the Results of Scientific Research
Study / exam achievements:	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.

