



UIN SUNAN KALIJAGA YOGYAKARTA

FACULTY OF SCIENCE AND TECHNOLOGY

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Undergraduate Programme in Physics

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MODULE HANDBOOK

Module Name	Research Methods
Module level, if applicable	Bachelor
Code, if applicable	FIS415016
Subtitle, if applicable	-
Courses, if applicable	-
Semester(s) in which the module is taught	6 th (Sixth)
Person responsible for the module	Dr. Nita Handayani, M.Si
Lecturer(s)	Dr. Nita Handayani, M.Si
Language	Indonesia
Relation to curriculum	compulsory course in the third year (6 th semester) Bachelor Degree
Type of teaching, contact hours	200 minutes lectures, and 240 minutes structured activities per week.
Workload	Total workload is 181.3 hours per semester, which consists of 200 minutes lectures per week for 14 weeks, 240 minutes structured activities per week, 240 minutes individual study per week, in total is 16 weeks per semester, including mid exam and final exam
Credit points	4
Requirements according to the examination regulations	Minimum attendance 75% All assignments submitted Attendance on time
Recommended prerequisites	No prerequisites stated on
Module objectives/intended learning outcomes	After completing this course, the students: CO 1. Able to understand the nature of science, the nature of research, types of physics research and approaches CO 2. Able to understand research ethics and research methods in the field of physics. CO 3. Able to formulate research problems and build a research framework. CO 4. Able to write research designs properly and correctly and present research proposals.
Content	1. The nature of science and research. 2. Types of physics research and approaches 3. Quranic verses and Islamic insights related to research. 4. Research ethics 5. Conceptualization of research problems. 6. Formulation of research objectives and hypotheses. 7. Basic research framework 8. Research Methods

