UIN SUNAN KALIJAGA YOGYAKARTA
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Undergraduate Programme in Physics

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MODULE HANDBOOK

Module Name	Elementary Physics 2
Module level, if applicable	Bachelor
Code, if applicable	FIS414006
Subtitle, if applicable	-
Courses, if applicable	Elementary Physics 2
Semester(s) in which the module is taught	2st (Second)
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 first year (2st semester) Bachelor Degree
Type of teaching, contact hours	150 minutes lectures, 170 minutes practicum and 180 minutes structured activities per week.
Workload	Total workload is 181,3 hours per semester, which consists of 150 minutes lectures per week for 14 weeks, 170 minutes practicum per week, 180 minutes structured activities per week, 180 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	Minimal attendance 75% All assignments are submitted Come to class on time
Recommended prerequisites	Elementary Physics 1
Module objectives/intended learning outcomes	After completing this course, the students: CO 1. Able to explain and apply theoretical concepts and basic principles of classical physics regarding magnetic electricity, electromagnetic waves and optics comprehensively. CO 2. Able to apply logical, critical and systematic thinking in solving physics problems or implementing science and technology in accordance with the field of physics. CO 3. Able to formulate physical phenomena, master the basic principles of experimentation and design simple technology based on physics concepts.
Content	Electrostatic (electric field, Coulomb Law, eletric dipole), Electric potential energy, Electrical potential, capasitor, electric current, Magnetostatic, Electromotive Force, Magnetism in Matter, Alternating Current, Electromagnetic wave, and Optics.
Study and examination requirements and forms of examination	The final mark will be weighted as follows:

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NO	Assessment methods (components, activities)	Weight (percentage)
1	Final Examination	25%
2	Mid-Term Examination	25%
3	Class Activities : Quiz, Homework, etc.	15%
4	Project Based Learning (PBL)	10%
5	Practicum	25%

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. Young and Freedman, 2012, University Physics with Modern Physics 13th edition, Addison Wesley 2. Searway R.A, Jewett, J.W., 2008, Physics for Scientist and Engineers with Modern Physics: Seventh Edition 3. Halliday, D., Resnick, R., and Walker, J., Principle of Physics, 10th, John Wiley & Sons, 2014 4. Paul A. Tipler, Gene Mosca, *Physics for Scientists and Engineers with Modern Physics (extended version)*, 6th Edition, W.H. Freeman and Company, 2008.

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									√