UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF SCIENCE EDUCATION
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Bachelor of Education in Science **MODULE HANDBOOK**

Module name:	**General Physics II**
Module level, if applicable:	Undergraduate
Code:	IPA6212
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	2th
Module coordinator:	Al Maryanto, M.Pd.
Lecturer(s):	Al Maryanto, M.Pd.
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course
Teaching format / class hours per week during the semester:	100 minutes lectures and 120 minutes structured activities 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 ETCS)
Prerequisites course(s):	-
Targeted learning outcomes:	After careful study of this chapter students are expected to have gained theoretical and applied knowledge of basic topics related to: CO1. electricity and magnetism, CO2. wave motion, CO3. optics, CO4. and introduction to modern physics, including quantum mechanics and special relativity
Content:	This course is an introduction to electricity and magnetism, light, resistive and capacitive circuits; electromagnetic

<table>
<tr><td></td><td>induction; electromagnetic waves; geometrical optics; interference, diffraction, and polarization of light. Many concepts from General Physics I will be used in this course such as: position, velocity, acceleration, force, Newton's laws of motion, work and energy. The course uses high school algebra, geometry and trigonometry, vectors and vector arithmetic, and some calculus..</td></tr>
<tr><td>Study / exam achievements:</td><td>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. The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude.
The final mark will be weight as follow:
<table>
<tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr>
<tr><td>1</td><td>CO1,
CO2,
CO3,
CO4,</td><td>a. Individual Assignment
b. Group Assignment
c. Quiz
d. Mid
e. Final Exam</td><td>Presentation / written test</td><td>15%
15%

15%
25%
30%</td></tr>
<tr><td colspan="4">Total</td><td>100%</td></tr>
</table></td></tr>
<tr><td>Forms of media:</td><td>Board, LCD Projector, Laptop/Computer</td></tr>
<tr><td>Literature:</td><td>1. David Halliday & Robert Resnick (Pantur Silaban & Erwin Sucipto), (1989). FISIKA, Erlangga-Jakarta.
2. Paul A. Tipler (Dr. Bambang Soegijono). (2001). FISIKA, Untuk Sains dan Teknik, Erlangga-Jakarta.
3. Douglas C. Giancoli. (2001). FISIKA, Erlangga-Jakarta</td></tr>
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PLO and CO mapping

	PLO											
	Attitude			Knowledge				Spesific SKill				
	PLO1	PLO2	PLO3	PLO1	PLO2	PLO3	PLO4	PLO1	PLO2	PLO3	PLO4	PLO5
CO1					✓	✓						
CO2					✓		✓					
CO3				✓			✓					
CO4					✓	✓						