

UNIVERSITAS NEGERI SURABAYA FACULTY OF MATHEMATICS AND NATURAL SCIENCE

UNDERGRADUATE PROGRAM OF MATHEMATICS Ketintang Campus, C8-C9 Buildings of FMIPA, Surabaya

Email: s1-mat@unesa.ac.id

Module Handbook

Module Name :	Fisika Umum General Physics		
Module level :	Bachelor degree/Undergraduate Program		
Course Code :	4420103038		
Abbreviation, if applicable:	-		
Courses included in the module, if applicable:	Not Applicable		
Semester/Term	1st/ first year		
Module coordinator(s)	Drs. Dwikoranto, M.Pd.		
Lecturer(s):	Drs. Dwikoranto, M.Pd. Lydia Rohmawati, S.Si., M.Si.		
Language:	Bahasa Indonesia (Indonesian Language)		
Classification within the curriculum:	Compulsory/ Elective		
Teaching format/class hours per week during the semester:	3 contact hours of lectures (sks or credit unit*)		
Workload :	3×50 minutes lectures, 3×60 minutes structured activity, and 3×60 minutes individual activity per week, 14 weeks per semester 119 total hours per semester ~ 4.77 ECTS**		
Credit Unit:	3 credit unit (4.77 ECTS)		
Requirements:	None		



UNIVERSITAS NEGERI SURABAYA

FACULTY OF MATHEMATICS AND NATURAL SCIENCE

UNDERGRADUATE PROGRAM OF MATHEMATICS Ketintang Campus, C8-C9 Buildings of FMIPA, Surabaya

Email: s1-mat@unesa.ac.id

	COM-2 : Generating ideas used for completing mathematical tasks and to communicate them either in writing or orally, in accordance with scientific principles.	
Learning goals/competencies:	 CLO-1: Explain experimental results, and the use of basic physics concepts in the discussion of solving related problems, both orally and in writing. SOC-1: Working collaboratively and having social sensitivity (obligations as citizens and towards religion) and being able to bring change to a techno-ecopreneurship community. 	
	CLO-2: Develop and apply scientific, logical, critical, and innovative thinking in presenting alternative solutions for solving problems related to the basic concepts of physics.	
Content	This course discusses about vectors, particle kinematics, particle dynamics, fluids, thermophysics, optics, static and dynamic electricity, and magnetism.	

Attribute Soft skill:	Active communication; Discipline; Collaboration; Responsibility; and Argumentation in class and outdoor setting		
Study/exam achievements:	The final grade (NA) is calculated based on the following ratio:		
	Assessment Components	Percentage of contribution	
	Participation	20%	
	Assignment	30%	
	Mid-semester test	20%	
	Final semester test	30%	



UNIVERSITAS NEGERI SURABAYA

FACULTY OF MATHEMATICS AND NATURAL SCIENCE

UNDERGRADUATE PROGRAM OF MATHEMATICS Ketintang Campus, C8-C9 Buildings of FMIPA, Surabaya

Email: s1-mat@unesa.ac.id

	Grade con	version of 0-100 s	cale into 0-4 scale is set as below:	
	Letter	Number	Grade Interval	
	A	4,00	85 ≤ A ≤ 100	
	A-	3,75	80 ≤ A- < 85	
	B+	3,50	75 ≤ B+ < 80	
	В	3,00	70 ≤ B < 75	
	B-	2,75	65 ≤ B- < 70	
	C+	2,50	60 ≤ C+ < 65	
	С	2,00	55 ≤ C < 60	
	D	1,00	40 ≤ D < 55	
	Е	0,00	0 ≤ E < 40	
Learning Methods :	discussion; a	Student-centered approach; project-based learning; lecturer and discussion; and presentations (structured activities)		
Form of Media:	Power point slides; video; worksheets, and textbooks			
Literature (primary references):	 Bueche, F.J., 2000, Schaum 19s Outline of College Physics , McGraw-Hill. Sarojo, A.G., 2014, Seri Fisika Dasar Mekanika , edisi 5, Salemba Teknika. Serway, R.A., and Jewett, J.W., 2010, Physics for Scientists and Engineers with Modern Physics , Salemba Teknika. 			
Notes:	*1 credit unit or <i>sks</i> in learning process = three periods consist of: (a) scheduled instruction in a classroom or laboratory (50 minutes); (b) structured activity (60 minutes); and (c) individual activity (60 minutes) according to the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 44 Year 2015 jo. the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 50 Year 2018.			



UNIVERSITAS NEGERI SURABAYA

FACULTY OF MATHEMATICS AND NATURAL SCIENCE

UNDERGRADUATE PROGRAM OF MATHEMATICS Ketintang Campus, C8-C9 Buildings of FMIPA, Surabaya

Email: s1-mat@unesa.ac.id

**1 credit unit or *sks* = 1.59 ECTS according to Rector Decree Of Universitas Negeri Surabaya No. 598/UN38/HK/AK/2019