

MINISTRY OF EDUCATION AND CULTURE UNIVERSITAS NEGERI SURABAYA FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF PHYSICS

Ketintang Campus, Jalan Ketintang, C3 Building, Surabaya 60231 Website: https://pendidikan-fisika.fmipa.unesa.ac.id/, email: <u>s1-pfis@unesa.ac.id</u>

Undergraduate Programme of Physics Education

Module Handbook

Module level : Bachelor degree/Undergraduate Programme Course Code : 8420302129 Abbreviation, if applicable: - Courses included in the module, if applicable: Not Applicable Semester/Term 5/Third Year Module coordinator(s) Dr. Rudy Kustijono, MS Abd. Kholiq, S.P.d., MT Language: Bahasa Indonesia Classification within the curriculum: Compulsory/ Elective Teaching format/class hours per week during the semester: 2 contact hours of lectures (Indonesia credit semester or sks*) Workload : 2 x 50 minutes lectures, 2 x 60 minutes structured activity, 2 x 60 minutes individual activity, 14 weeks per semester, 90 total hours per semester ~ 3.18 ECTS** Requirements: Digital Literacy Learning goals/competencies: Digital Literacy Learning goals/competencies: Developing learning aids 3. Developing learning book 6. Developing alating Ebook 6. Developing a learning Ebook 6. Developing a learning media 5. Developing a learning media 7. Developing learning websites and weblogs 8. Developing learning websites and weblogs 8. Developing learning media 7. Developing learning wideos 7. Developing animation learning	Module Name :	Media pembelajaran Learning Media	
Abbreviation, if applicable: - Courses included in the module, if applicable: Not Applicable Semester/Term 5/Third Year Module coordinator(s) Dr. Rudy Kustijono, MS Abd. Kholiq, S.Pd, MT Language: Bahasa Indonesia Classification within the curriculum: Compulsory/ Elective Teaching format/class hours per week during the semester: 2 contact hours of lectures (Indonesia credit semester or sks*) Workload : 2 x 50 minutes lectures, 2 x 60 minutes structured activity, 2 x 60 minutes individual activity, 14 weeks per semester, 90 total hours per semester ~ 3.18 ECTS** Requirements: Digital Literacy Learning goals/competencies: 1. Examining various media and teaching aids in learning 2. Developing learning posters/banners 4. Developing learning media 5. Developing learning media 5. Developing learning media 5. Developing learning media 5. Developing learning media 6. Developing learning media 7. Developing learning media 8. Developing learning media 7. Developing learning	Module level :	Bachelor degree/Undergraduate Programme	
Courses included in the module, if applicable: Not Applicable Semester/Term 5/Third Year Module coordinator(s) Dr. Rudy Kustijono, MS Abd. Kholiq, S.Pd., MT Language: Bahasa Indonesia Classification within the curriculum: Compulsory/ Elective Teaching format/class hours per week during the semester: 2 contact hours of lectures (Indonesia credit semester or sks*) Workload : 2 x 50 minutes lectures, 2 x 60 minutes structured activity, 2 x 60 minutes individual activity, 14 weeks per semester, 90 total hours per semester ~ 3.18 ECTS* Requirements: Digital Literacy 1 Examining various media and teaching aids in learning 2. Developing learning posters/banners 4. Developing presentation learning media 5. Developing learning websites and weblogs 8. Developing learning media Content This course is a course that designs and develops teaching and learning aids, both in the form of hardware and software, namely everything that can be used to stimulate the thoughts, feelings, attention and abilities or skills of students so that it can encourage the learning process. Attribute Soft skill: Scientific report, public speaking, and team work Study/exam achievements: Students are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grad	Course Code :		
if applicable:Not ApplicableSemester/Term5/Third YearModule coordinator(s)Dr. Rudy Kustijono, MS Abd. Kholiq, S.Pd., MTLanguage:Bahasa IndonesiaClassification within the curriculum:Compulsory/ ElectiveTeaching format/class hours per week during the semester:2 contact hours of lectures (Indonesia credit semester or sks*)Workload :2 x 50 minutes lectures, 2 x 60 minutes structured activity, 2 x 60 minutes individual activity, 14 weeks per semester, 90 total hours per semester ~ 3.18 ECTS**Credit Point:2 sks (3.18 ECTS)Requirements:Digital LiteracyLearning goals/competencies:1. Examining various media and teaching aids in learning 2. Developing learning websites and weblogs 8. Developing learning mediaContentThis course is a course that designs and develops teaching and learning aids, both in the form of hardware and software, namely everything that can be used to stimulate the thoughts, feelings, attention and abilities or skills of students so that it can encourage the learning process.Attribute Soft skill:Scientific report, public speaking, and team workStudy/exam achievements:Students are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:	Abbreviation, if applicable:	-	
Module coordinator(s) Dr. Rudy Kustijono, MS Abd. Kholiq, S.Pd., MT Language: Bahasa Indonesia Classification within the curriculum: Compulsory/ Elective Teaching format/class hours per week during the semester: 2 contact hours of lectures (Indonesia credit semester or sks*) Workload : 2 x 50 minutes lectures, 2 x 60 minutes structured activity, 2 x 60 minutes individual activity, 14 weeks per semester, 90 total hours per semester ~ 3.18 ECTS** Credit Point: 2 sks (3.18 ECTS) Requirements: Digital Literacy 1 Examining various media and teaching aids in learning 2. Developing learning posters/banners Learning goals/competencies: 1. Examining various media and teaching media 5. Developing learning tideos 2 Developing learning tideos 3. Developing learning videos 2. Developing alearning websites and weblogs 4. Developing animation learning media 2. Developing alearning tideos 5. Developing learning tideos 3. Developing animation learning media 5. Developing learning websites and weblogs 8. Developing animation learning media 6. Developing learning tideos 7. Developing learning tideos 7. Developing learning tideos 7. Developing nateation learning media 7. Devel	,	Not Applicable	
Lecturer(s):Dr. Rudy Kustijono, MS Abd. Kholiq, S.Pd., MTLanguage:Bahasa IndonesiaClassification within the curriculum:Compulsory/ ElectiveTeaching format/class hours per week during the semester:2 contact hours of lectures (Indonesia credit semester or sks*)Workload :2 x 50 minutes lectures, 2 x 60 minutes structured activity, 2 x 60 minutes individual activity, 14 weeks per semester, 90 total hours per semester ~ 3.18 ECTS**Credit Point:2 sks (3.18 ECTS)Requirements:Digital Literacy1Examining various media and teaching aids in learning 2. Developing learning book2Developing learning tobook3Developing learning websites and weblogs 8. Developing learning websites and weblogs 8. Developing learning mediaThis course is a course that designs and develops teaching and learning aids, both in the form of hardware and software, namely everything that can be used to stimulate the thoughts, feelings, attention and abilities or skills of students so that it can encourage the learning process.Attribute Soft skill:Scientific report, public speaking, and team workStudy/exam achievements:Students are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:	Semester/Term	5/Third Year	
Lecturer(s):Abd. Kholiq, S.Pd., MTLanguage:Bahasa IndonesiaClassification within the curriculum:Compulsory/ ElectiveTeaching format/class hours per week during the semester:2 contact hours of lectures (Indonesia credit semester or sks*)Workload :2 x 50 minutes lectures, 2 x 60 minutes structured activity, 2 x 60 minutes individual activity, 14 weeks per semester, 90 total hours per semester ~ 3.18 ECTS**Credit Point:2 sks (3.18 ECTS)Requirements:Digital LiteracyLearning goals/competencies:1. Examining various media and teaching aids in learning 2. Developing learning posters/banners 4. Developing presentation learning media 5. Developing alearning Ebook 6. Developing learning websites and weblogs 8. Developing learning websites and weblogs 8. Developing learning mediaContentThis course is a course that designs and develops teaching and learning aids, both in the form of hardware and software, namely everything that can be used to stimulate the thoughts, feelings, attention and abilities or skills of students so that it can encourage the learning process.Attribute Soft skill:Scientific report, public speaking, and team workStudy/exam achievements:Students are considered to complet the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:	Module coordinator(s)		
Classification within the curriculum:Compulsory/ ElectiveTeaching format/class hours per week during the semester:2 contact hours of lectures (Indonesia credit semester or sks*)Workload :2 contact hours of lectures, 2 x 60 minutes structured activity, 2 x 60 minutes individual activity, 14 weeks per semester, 90 total hours per semester ~ 3.18 ECTS**Credit Point:2 sks (3.18 ECTS)Requirements:Digital Literacy1.Examining various media and teaching aids in learning 2. Developing learning aids 3. Developing learning websites and weblogs 8. Developing learning websites and weblogs 8. Developing animation learning mediaContentThis course is a course that designs and develops teaching and learning aids, both in the form of hardware and software, namely everything that can be used to stimulate the thoughts, feelings, attention and abilities or skills of students so that it can encourage the learning process.Attribute Soft skill:Scientific report, public speaking, and team workStudy/exam achievements:Students are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:	Lecturer(s):		
curriculum:Compulsory/ ElectiveTeaching format/class hours per week during the semester:2 contact hours of lectures (Indonesia credit semester or sks*)Workload :2 x 50 minutes lectures, 2 x 60 minutes structured activity, 2 x 60 minutes individual activity, 14 weeks per semester, 90 total hours per semester ~ 3.18 ECTS**Credit Point:2 sks (3.18 ECTS)Requirements:Digital LiteracyLearning goals/competencies:1. Examining various media and teaching aids in learning 2. Developing learning posters/banners 4. Developing presentation learning media 5. Developing learning videos 7. Developing learning websites and weblogs 8. Developing learning websites and weblogs 8. Developing animation learning mediaContentThis course is a course that designs and develops teaching and learning aids, both in the form of hardware and software, namely everything that can be used to stimulate the thoughts, feelings, attention and abilities or skills of students or skills of students or skills of students or skills of students or skills of attention and abilities or skills of attention and abilities or skills of attention and abilities or skills of attention and approxes.Attribute Soft skill:Scientific report, public speaking, and team workStudy/exam achievements:Students are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:	Language:	Bahasa Indonesia	
per week during the semester:2 contact hours of lectures (Indonesia credit semester or sks*)2 x 50 minutes lectures, 2 x 60 minutes structured activity, 2 x 60 minutes individual activity, 14 weeks per semester, 90 total hours per semester ~ 3.18 ECTS**Credit Point:2 sks (3.18 ECTS)Requirements:Digital LiteracyLearning goals/competencies:1. Examining various media and teaching aids in learning 2. Developing learning posters/banners 4. Developing learning Ebook 6. Developing learning websites and weblogs 8. Developing animation learning mediaContentThis course is a course that designs and develops teaching and learning aids, both in the form of hardware and software, namely everything that can be used to stimulate the thoughts, feelings, attention and abilities or skills of students so that it can encourage the learning process.Attribute Soft skill:Scientific report, public speaking, and team workStudy/exam achievements:Students are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:		Compulsory/ Elective	
Workload :2 x 60 minutes individual activity, 14 weeks per semester, 90 total hours per semester ~ 3.18 ECTS**Credit Point:2 sks (3.18 ECTS)Requirements:Digital LiteracyLearning goals/competencies:1. Examining various media and teaching aids in learning 2. Developing learning posters/banners 4. Developing presentation learning media 5. Developing learning videos 7. Developing learning websites and weblogs 8. Developing learning websites and weblogs 8. Developing animation learning media This course is a course that designs and develops teaching and learning aids, both in the form of hardware and software, namely everything that can be used to stimulate the thoughts, feelings, attention and abilities or skills of students so that it can encourage the learning process.Attribute Soft skill:Scientific report, public speaking, and team workStudy/exam achievements:Students are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:		, ,	
Requirements:Digital LiteracyLearning goals/competencies:1. Examining various media and teaching aids in learning 2. Developing learning posters/banners 3. Developing presentation learning media 5. Developing a learning Ebook 	Workload :	2 x 60 minutes individual activity, 14 weeks per semester,	
1.Examining various media and teaching aids in learning 2.Learning goals/competencies:1.Examining various media and teaching aids in learning 2.Learning goals/competencies:2.Developing learning posters/banners 4.Developing presentation learning media 5.Developing a learning Ebook 6.Developing learning videos 7.Developing learning websites and weblogs 8.Developing animation learning mediaThis course is a course that designs and develops teaching and learning aids, both in the form of hardware and software, namely everything that can be used to stimulate the thoughts, feelings, attention and abilities or skills of students so that it can encourage the learning process.Attribute Soft skill:Scientific report, public speaking, and team workStudy/exam achievements:Students are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:	Credit Point:	2 sks (3.18 ECTS)	
Learning goals/competencies:2. Developing learning aids 3. Developing learning posters/banners 4. Developing presentation learning media 5. Developing a learning Ebook 6. Developing learning websites and weblogs 8. Developing animation learning mediaContentThis course is a course that designs and develops teaching and learning aids, both in the form of hardware and software, namely everything that can be used to stimulate the thoughts, feelings, attention and abilities or skills of students so that it can encourage the learning process.Attribute Soft skill:Scientific report, public speaking, and team workStudy/exam achievements:Students are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:	Requirements:	Digital Literacy	
ContentThis course is a course that designs and develops teaching and learning aids, both in the form of hardware and software, namely everything that can be used to stimulate the thoughts, feelings, attention and abilities or skills of students so that it can encourage the learning process.Attribute Soft skill:Scientific report, public speaking, and team workStudents are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:Assessment ComponentsPercentage of contribution	Learning goals/competencies:	 Developing learning aids Developing learning posters/banners Developing presentation learning media Developing a learning Ebook Developing learning videos Developing learning websites and weblogs 	
Study/exam achievements:Students are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:Assessment ComponentsPercentage of contribution		This course is a course that designs and develops teaching and learning aids, both in the form of hardware and software, namely everything that can be used to stimulate the thoughts, feelings, attention and abilities or skills of students so that it can encourage the learning process.	
Study/exam achievements:obtain at least 40% of maximum final grade. The final grade (NA)is calculated based on the following ratio:Assessment ComponentsPercentage of contribution	Attribute Soft skill:	Scientific report, public speaking, and team work	
	Study/exam achievements:	obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:	
		Participation	20%





MINISTRY OF EDUCATION AND CULTURE UNIVERSITAS NEGERI SURABAYA FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF PHYSICS

Ketintang Campus, Jalan Ketintang, C3 Building, Surabaya 60231 Website: https://pendidikan-fisika.fmipa.unesa.ac.id/, email: <u>s1-pfis@unesa.ac.id</u>

	Assignment	30%	
	Mid-semester test	20%	
	Final semester test	30%	
Learning Methods :	Student-centered approach, presentations (structured activi		
Form of Media:	Power Point slides, e-book file, a	and multimedia.	
	1. Green TD and Brown A, 2002, Multimedia Project in the		
Literature (primary references):	Classroom, California: Corwin Press, Inc.		
	2. Rusli M, Hermawan D and Supuwiningsih NN, 2017,		
	Innovative Multimedia Learning, Yogyakarta: Andi Offset.		
	*1 sks in learning process = three periods consist of: (a) scheduled		
Notes:	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.		
	**1 sks = 1,59 ECTS according to Rector Decree Of Universitas		
	Negeri Surabaya No. 598/Un38/Hk/Ak/2019		

