



UNIVERSITAS PENDIDIKAN INDONESIA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES EDUCATION
DEPARTMENT OF PHYSICS EDUCATION

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Bachelor of Physics

MODULE HANDBOOK

Module name:	Modeling and Simulation of Physics	
Module level, if applicable:	Undergraduate	
Code:	FI-481	
Sub-heading, if applicable:	-	
Classes, if applicable:	-	
Semester:	7 th	
Module coordinator:	Lilik Hasanah	
Lecturer(s):	Lilik Hasanah	
Language:	Bahasa Indonesia	
Classification within the curriculum:	Compulsory course	
Type of Teaching:	Contact hours per week during the semester	Class Size
1. Lecture (conceptual, contextual and problem-solving approaches through expository, discussions and practical methods). 2. Structured activities (assignments based on conceptual, contextual and problem-solving approaches) 3. Self-study (reading literature and computer programming)	2 hour 30 minutes	45
Workload:	The total workload is 136 hours/8160 minutes (4.8 ECTS) per semester, consisting of 20 hours/1200 minutes lectures (0.71 ECTS) per week for 8 week, 57 hours/3420 minutes structured activities (1.48 ECTS) and 51 hours/3060 minutes self-study (1.71 ECTS) per week for 14 weeks, 8 hours/160 minutes for two exams (0.9 ECTS).	
Credit points:	4,8 ECTS	
Pre-requisites course(s):	Elementary Physics, Mathematical Physics, and Computational Physics	

