

UIN SUNAN KALIJAGA YOGYAKARTA FACULTY OF SCIENCE AND TECHNOLOGY

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Undergraduate Programme in Physics

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MODULE HANDBOOK

Module Name	Computational Physics							
Module level, if applicable	Bachelor							
Code, if applicable	FIS414014							
Subtitle, if applicable	-	-						
Courses, if applicable	Computational Physics (Komputasi Fisika)							
Semester(s) in which the module is	3 rd (third)							
taught								
Person responsible for the module	Chair of Computational Laboratory							
Lecturer(s)	Cecilia Yanuarief, S.Si., M.Si							
Language	Indonesia							
Relation to curriculum	Elective course in the second year (3 th semester) Bachelor Degree							
Type of teaching, contact hours	150 minutes lectures and 180 minutes structured activities per week.							
Workload	Total workload is 136 hours per semester, which consists of 150 minut							
	week for 14 weeks, 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	Minimum attendance 75%							
examination regulations								
Recommended prerequisites	No prerequisites stated on							
Module objectives/intended learning	g After completing this course, the students:							
outcomes	CO 1. Students can understand and apply the concept of computationa							
	CO 2. Students can understand numerical solutions to physics cases involving t							
	roots of equations, matrices, linear equations, interpolation, deriva							
	definite integrals, and ordinary differential equations.							
Content	a. Cond	cept of Computational Error,						
	b. Num	nerical Computation Methods,						
	c. Practical application of numerical computing methods with computer programming.							
Study and examination requirements	The final mark will be weighted as follows:							
and forms of examination	NO	Assessment methods (components, activities)	Weight					
			(percentage)					
	1	Final Examination	40%					
	2	Mid-Term Examination	30%					
	3	Class Activities : Quiz, Homework, etc.	30%					
The final assessment is expressed in the form of a letter value converted from number value with the following categories:								



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	NO	Number Value	Letter Value	NO	Number Value	Letter Value
	1	≥ 95	А	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	С
	4	80-84.99	B+	10	50-54.99	C-
	5	75-79.99	В	11	55-34.99	D
	6	70-74.99	B-	12	<35	E
Media employed	White-	board, Lcd P	rojector, co	omputer	, computation	al software
Reading list	Sania	va Made 20)15 Komr	<u>.</u> nutasi N	umerik Berh	asis Pytho
	Julijuy	a, maac. 20	5±3. Komp		annenne Derbi	asis i ytiioi

PLO and CO Mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10
CO 1				V					V	
CO 2				V					V	