

FI345 Wave

Module name:	Wave	
Module level, if applicable:	Undergraduate	
Code:	FI345	
Sub-heading, if applicable:	-	
Classes, if applicable:	-	
Semester:	4 th	
Module coordinator:	Andhy Setiawan	
Lecturer(s):	Andhy Setiawan	
Language:	Bahasa Indonesia	
Classification within the curriculum:	Compulsory course	
Type of Teaching	Contact hours per week during the semester	Class Size
<ol style="list-style-type: none"> 1. Lecture (conceptual, contextual and problem-solving approaches through expository, discussions and exercises). 2. Structured activities (assignments based on conceptual, contextual and problem-solving approaches) 3. Self-study (reading literature) 	3 hour 20 minutes	35
Workload:	The total workload is 181 hours 20 minutes (6.4 ECTS) per semester, consisting of 40 hours/2400 minutes lectures (1.41 ECTS), 56 hours/3360 minutes structured activities (1.98 ECTS) and 56 hours/3360 minutes self-study (1.98 ECTS) per week for 12 weeks, 29 hour 11 minutes for four exams (1.03 ECTS)	
Credit points:	6.4 ECTS	
Pre-requisites course(s):	Basic Physics 1 (FI121), Basic Physics 2 (FI122), Mathematical Physics 1 (FI222)	
Course Learning Outcomes (CLO):	<p>After taking this course the students have ability to:</p> <p>CLO1: Analyze oscillation and kinematics of waves. CLO2: Analyze mechanical waves. CLO3: Analyze electromagnetic waves. CLO4: Analyze interference, diffraction, and modulation of waves.</p>	
Content:	Oscillation, Kinematics of Waves, Mechanical Waves, Electromagnetics Waves, Interference and Diffraction, Modulation of Waves.	

