

FI363 Material Physics

Module name:	Material Physics	
Module level, if applicable:	Undergraduate	
Code:	FI363	
Sub-heading, if applicable:	-	
Classes, if applicable:	-	
Semester:	5 th	
Module coordinator:	Andhy Setiawan	
Lecturer(s):	Andhy Setiawan	
Language:	Bahasa Indonesia	
Classification within the curriculum:	Elective 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 presentation). 2. Structured activities (assignments based on conceptual, contextual and problem-solving approaches) 3. Self-study (reading literature)	2 hours 30 minutes	20
Workload:	The total workload is 136 hours/8160 minutes (4.8 ECTS) per semester, consisting of 35 hours/2100 minutes lectures (1.24 ECTS), 42 hours/2520 minutes structured activities (1.48 ECTS) and 42 hours/2520 minutes self-study (1.71 ECTS) per week for 14 weeks, 17 hours/1020 minutes for two exams (0.6 ECTS).	
Credit points:	4.8 ECTS	
Pre-requisites course(s):	FI121 Basic Physics I, FI122 Basic Physics II	
Course Learning Outcomes (CLO):	After taking this course the students have ability to: CLO1. Analyze materials science and engineering. CLO2. Analyze properties of materials. CLO3. Analyze metal alloy, ceramic, polymer, and composite. CLO4. Identify of the types and properties of materials, and the material physics research in scientific articles	

