

FI342 Optics

Module name:	Optics	
Module-level, if applicable:	Undergraduate	
Code:	FI342	
Sub-heading, if applicable:	-	
Classes, if applicable:	-	
Semester:	3 rd	
Module coordinator:	Wiendartun	
Lecturer(s):	Wiendartun	
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, exercises and presentation). 2. Structured activities (assignments based on conceptual, contextual and problem-solving approaches, Presentation) 3. Self-study (reading literature) 	1 hour 40 minutes	35
Workload:	The total workload is 91 hours/5440 minutes (3.2 ECTS) per semester, consisting of 25 hour 20 minutes/1400 minutes lectures (0.82 ECTS), 28 hours/1680 minutes structured activities (0.98 ECTS) and 28 hours/1680 minutes self-study (0.98 ECTS) per week for 14 weeks, 11hour 54 minutes/714 minutes for two exams (0.42 ECTS).	
Credit points:	3.2 ECTS	
Pre-requisites course(s):	FI120 Basic Mathematics, FI121 Basic Physics I	
Course Learning Outcomes (CLO):	After taking this course the students have ability to: CLO1: Analyze geometrical optics, CLO2: Explain the working principle of optical instruments, CLO3: Analyze physical optics.	
Content:	Concept of: Geometric Optics, Optical instruments, Physical Optics	

