

## FI344 Electricity and Magnetism

Module name:	Electricity and Magnetism	
Module level, if applicable:	Undergraduate	
Code:	FI344	
Sub-heading, if applicable:	-	
Classes, if applicable:	-	
Semester:	4 <sup>th</sup>	
Module coordinator:	Selly Feranie	
Lecturer(s):	Selly Feranie	
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"> <li>1. Lecture (conceptual, contextual and problem-solving approaches through expository, discussions and exercises).</li> <li>2. Structured activities (assignments based on conceptual, contextual and problem-solving approaches)</li> <li>3. Self-study (reading literature)</li> </ol>	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):	FI122 Basic Physics II, FI222 Mathematical Physics I, FI240 Mathematical Physics II	
Course Learning Outcomes (CLO):	<p>After taking this course the students have ability to:</p> <p>CLO1: Apply procedural knowledge and mathematics skills in solving problems of electrostatics systematically and logically</p> <p>CLO2: Apply procedural knowledge and mathematics skills in solving problems of electric field in matter systematically and logically</p> <p>CLO3: Apply procedural knowledge and mathematics skills in solving problems of magneto statics systematically and logically</p> <p>CLO4: Apply procedural knowledge and mathematics skills in solving problems of magnetic field in matter systematically and</p>	

