

FI562 Nuclear Physics

Module name:	Nuclear physics	
Module level, if applicable:	Undergraduate	
Code:	FI-562	
Sub-heading, if applicable:	-	
Classes, if applicable:	-	
Semester:	6 th	
Module coordinator:	Mohammad Arifin	
Lecturer(s):	Mohammad Arifin	
Language:	Bahasa Indonesia	
Classification within the curriculum:	Compulsory course	
Type of teaching format	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 hours 20 minutes	35
Workload:	The total workload is 181 hour 20 minutes (6.4 ECTS) per semester, consisting of 46 hour 20 minutes /2800 minutes lectures (1.65 ECTS), 56 hours/3360 minutes structured activities (1.98 ECTS) and 56 hours/3360 minutes self-study (1.98 ECTS) per week for 14 weeks, 22 hour 23 minutes for two exams (0.79 ECTS)	
Credit points:	6.4 ECTS	
Pre-requisites course(s):	FI360 Modern Physics, FI560 Quantum Physics	
Course Learning Outcomes (CLO):	<p>After taking this course the students have ability to:</p> <p>CLO1. Explain the basic concepts of structure, reactions, and basic physical processes in the nucleus and on nucleonic and sub-nucleonic particles.</p> <p>CLO2. Apply it in everyday life, in technology and technology products (devices and instrumentation)</p> <p>CLO3. Participate in developing it in the breadth of standard physics disciplines and science and technology in general in the global literature</p>	

