

Module Handbook

Module Name:	Special Topic on Nuclear Physics
Module Level:	Bachelor
Abbreviation, if applicable:	FI 4041
Sub-heading, if applicable:	
Courses included in the module, if applicable:	
Semester/term:	fourth year
Module coordinator(s):	
Lecturer(s):	
Language:	Bahasa Indonesia
Classification within the curriculum:	General Studies / Major Subject / Elective Studies
Teaching format / class hours per week during the semester:	2 hours lectures
Workload:	2 hours lectures, 4 hours individual study per week, 16 weeks per semester, and total 96 hours a semester
Credit Points:	2
Requirements:	FI 4101 Nuclear Physics
Learning goals/competencies:	<p>Knowledge:</p> <ul style="list-style-type: none"> – Formulate advanced problem in nuclear physics – Formulate method of solution including numerical solution in detail <p>Skill:</p> <ul style="list-style-type: none"> – Building computer program or modify existing program to solve the problem – Performing trouble shooting to the program until appropriate results are obtained, the work should be done in group – Verify the results by comparing to published data – Presenting the results and answer question during discussion <p>Competence:</p> <ul style="list-style-type: none"> – Make recommendation for further development
Content:	Topics can change, but it about nuclear reaction. Selected topic depends on the current issue and the expertise of the lecturers. For example, nuclear model or fusion reaction and its relation with future energy source for mankind. The following is an example of selected topic syllabus.
Study/exam achievements:	Students are considered to be competent and pass if at least get 50% of maximum mark of the exams, homework, and research based learning.
Forms of Media:	Slides and LCD projectors, blackboards, lab.
Literature:	<ol style="list-style-type: none"> 1. Review of Modern Physics 2. Physical Review C
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