

Module designation	Development of Science Experiment
Module level, if applicable	Undergraduate
Code, if applicable	PIPAUM6411
Subtitle, if applicable	-
Courses, if applicable	-
Semester(s) in which the module is taught	Even/Autumn Term
Person responsible for the module	Isnanik Juni Fitriyah, S.Pd., M.Si.
Lecturer	Isnanik Juni Fitriyah, S.Pd.,M.Si., Ridwan Joharmawan, M.Si.
Language	Bahasa Indonesia
Relation to curriculum	Undergraduate degree program, elective, 5 th semester.
Type of teaching, contact hours	Direct instruction for lectures, cooperative learning for experiments, 100 minutes for lectures
Workload	<ol style="list-style-type: none"> 1. Lectures: 2 x 50 = 100 minutes (1.6 hours) per week. 2. Exercises and Assignments: 2 x 60 = 120 minutes (2 hours) per week. 3. Private study: 2 x 60 = 120 minutes (2 hours) per week.
Credit points	2 credit points(~4.76 ECTS-eq).
Requirements according to the examination regulations	A student must have attended at least 80% of the lectures to sit in the exams.
Recommended prerequisites	
Module objectives/intended learning outcomes	<p>After completing this module, students are expected to:</p> <p>LO 6: master developmental psychology and learning theories to design, implement, and evaluate innovative and productive science learning oriented to develop students' capability and adaptability towards curriculum, technology, and environmental changes along with the upholding of social sensitivity, cultural, view, and religious diversity.</p>

Content	<ol style="list-style-type: none"> 1. Experimental design 2. Computer simulation design
Study and examination requirements and forms of examination	Assesment of student learning achievement by assessing daily assignments, class discussions, papers, midterm and final semester exams.
Media employed	Whiteboard, power point, youtube, Sipejar, computer.
Reading list	Lawson, A. E. 2010. Teaching Inquiry Science in Middle and Secondary Schools. US of America: SAGE.
Date of last amendment made	May, 2020