

Module designation	Science Learning Strategy
Module level, if applicable	Undergraduate
Code, if applicable	PIPAUM6401
Subtitle, if applicable	-
Courses, if applicable	-
Semester(s) in which the module is taught	Even/Autumn Term
Person responsible for the module	Sugiyanto, S.Pd., M.Si.
Lecturer	Sugiyanto, S.Pd., M.Si.
Language	Bahasa Indonesia
Relation to curriculum	Undergraduate degree program, compulsory, 4 th semester.
Type of teaching, contact hours	Direct instruction, 50 minutes of lecture and discussion, 60 minutes of structured activities, and 60 minutes of independent activities.
Workload	<ol style="list-style-type: none"> 1. Lectures: 2 x 50 = 100 minutes (1,67 hours) per week 2. Exercise and Assignments: 2 x 60 minutes = 120 minutes (2 hours) per week 3. Private Study: 2 x 60 minutes = 120 minutes (2 hours) per week
Credit points	3 credit points (~3.17 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	Learning and Instructions (UNIVUM6013)
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. New paradigm in science learning in schools, 2. Scientific approach in science learning. 3. constructivist learning model 4. National curriculum analysis in science learning 5. Science learning models that lead to HOTS, problem solving and scientific literacy 6. Basic teaching skills
Study and examination requirements and forms of examination	Assessment of student learning achievement by assessing daily assignments, class discussions, midterm and final semester exams

Media employed	Whiteboard, Power Point, Moodle (SIPEJAR)
Reading list	<ol style="list-style-type: none"> 1. Chiappetta, E. L. & Koballa, T. R. 2014. <i>Science Instruction in the Middle and Secondary Schools: Developing Fundamental Knowledge and Skills</i> (8th edition). New York: Allyn & Bacon. 2. Joyce, B. R. & Weil, M. 2009. <i>Models of Teaching</i> (8th edition). New York: Allyn & Bacon. 3. Lawson, A. E. 2009. <i>Teaching Inquiry Science in Middle and Secondary Schools</i>. New York: Sage Publications, Inc. 4. Newton, D. P. 2008. <i>A Practical Guide to Teaching Science in the Secondary School</i>. New York: Routledge 5. Ross, K., Lakin, L. & McKechnie, J. 2010. <i>Teaching Secondary Science</i>. New York: Routledge
Date of last amendment made	May, 2020