

Module designation	Applied Science
Module level, if applicable	Undergraduate
Code, if applicable	PIPAUM6604
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., Drs. Ridwan Joharmawan, M.Si.
Language	Bahasa Indonesia
Relation to curriculum	Undergraduate degree program, compulsory, 5 th semester.
Type of teaching, contact hours	Direct instruction for lectures, Cooperative Learning for making papers and presentation,
Workload	<ol style="list-style-type: none"> 1. Lectures: 2 x 50 = 100 minutes (1.67 hours) per week. 2. Exercises and Assignments: 3 x 60 = 180 minutes (3 hours) per week. 3. Private study: 3 x 60 = 180 minutes (3 hours) per week.
Credit points	3 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 4: analyze science phenomena in an integrated manner to solve problems logically, critically, systematically, and critically using information technology as data resources in the form of team work that respect the originality of other works.</p>
Content	Utilization of applied IPA in various fields; agriculture, medicine, environment, transportation, health, industry, animal husbandry, forestry, communication, and household.

Study and examination requirements and forms of examination	Assesment of student learning achievement by assessing daily assessment, class discussion, paper, quiz, midterm and final semester exams.
Media employed	Whiteboard, power point, sipejar.
Reading list	<ol style="list-style-type: none"> 1. Calvin, K. & Gilmer, P. J. 2008. <i>Real Science for the Real World</i>. New York: PAEC. 2. Davidovits, P. 2007. <i>Physics in Biology and Medicine</i> (3rd edition). California: Academic Press. 3. Ewen, D., Schurter, N. & Gundersen, P. E. 2012. <i>Applied Physics</i>. New York: Pearson Education, Inc. 4. Franceschetti, D. R. 2012. <i>Applied science</i>. NewYork: Salem PreSS, EBSCO Publishing, Inc. 5. Ingram, J. 2007. <i>Science of Everyday Life</i>. Toronto: Penguin Global. 6. Newman, J. 2008. <i>Physics of the Life Sciences</i> (1st edition). New York: Springer. 7. Parsons, L. M. 2007. <i>Everyday Science</i>. Oxford: Mahomedan Press. 8. Toedt, J., Koza, D. & Cleef-Toed, K. V. 2005. <i>Chemical Composition of Everyday Products</i>. London: Greenwood Press. 9. Walker, P. & Wood, E. 2008. <i>Hands-On General Science Activities With Real-Life Applications: Ready-to-Use Labs, Projects, and Activities for Grades 5-12</i>. San Francisco: Jossey-Bass.
Date of last amendment made	May, 2020