

Email: [ipa.fmipa@um.ac.id](mailto:ipa.fmipa@um.ac.id)

Website: <http://ipa.fmipa.um.ac.id/>

Module designation	Methodology of Science Education Research
Module level, if applicable	Undergraduate
Code, if applicable	PIPAUM6407
Subtitle, if applicable	-
Courses, if applicable	-
Semester(s) in which the module is taught	Even/Autumn Term
Person responsible for the module	Dr. Munzil, M.Si
Lecturer	Dr. Munzil, M.Si Sugiyanto, S.Pd, M.Si Indra Fardhani, S.Pd, M.Sc, M.I.L, Ph.D
Language	Bahasa Indonesia
Relation to curriculum	Compulsory, 6 <sup>th</sup> semester.
Type of teaching, contact hours	Colaboration, Presentation, Direct Instruction: 2 x 50 = 100 minutes.
Workload	1. Class Activities: 2 x 50 = 100 minutes (1.7 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 (~3.17 ECTS cr-eq)
Requirements according to the examination regulations	Minimum of attendance is 80% for a semester
Recommended prerequisites	PIPAUM6403 – Statistics for Educational Research
Module objectives/intended learning outcomes	After completing this module, students are expected to: LO 7: analyze science learning problems and mastering learning diagnostic tools, methods, and data analysis using information technology in science education research and communicate the result based on scientific principles using the transdisciplinary approach.
Content	This course covers the following six main topics: 1)

	Problematics of science learning at school, 2) The types of educational research, 3) The technique of references search for research supporting, 4) Education research variables, 5) Sampling and data analysis technique, and 6) Research instruments.
Study and examination requirements and forms of examination	Assignment, Midterm, Final Examination, Product
Media employed	Slide Show, Video, White Board, and Moodle (SIPEJAR)
Reading list	<ol style="list-style-type: none"> <li>1. Creswell, J. W.&amp; Clark, V. L. P. 2010. Designing and Conducting Mixed Methods Research. New York: Sage Publications, Inc.</li> <li>2. Creswell, John. 2012. Educational Research - Planning, Cunducting, and Evaluating Quantitative and Qualitative Research. New York: National Academic Press.</li> <li>3. Holly, M. L. 2005. Action Research for Teachers: Traveling the Yellow Brick Road. New York: Prentice Hall.</li> <li>4. Lammers, W. J. &amp; Badia, P. 2004. Fundamentals of Behavioral Research (with InfoTrac) (1st edition). New York: Wadsworth Publishing.</li> <li>5. Mertler, C. A. &amp; Charles, C. M. 2010. Introduction to Educational Research (7th edition). New York: Prentice Hall.</li> <li>6. Mulyasa, E. 2009. Penelitian Tindakan Sekolah. Bandung: Rosdakarya.</li> </ol>
Date of last amendment made	May, 2020