



MINISTRY OF EDUCATION AND CULTURE
UNIVERSITAS NEGERI SURABAYA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF NATURAL SCIENCES

Ketintang Campus, Jl. Ketintang C12 Building, Surabaya 60231
 Phone (031)18296427

Website <http://pendidikan-sains.fmipa.unesa.ac.id>

Undergraduate Programme in Science Education

Module Handbook

Module Name:	<i>Metodologi Penelitian</i> (Research Methodology)
Module Level:	Bachelor degree/Undergraduate Programme
Course Code:	8420103094
Abbreviation, if applicable:	Metpen
Courses included in the module, if applicable:	Not applicable
Semester/term	V/third year (junior)
Module coordinator(s):	Dr. Wahono Widodo, M.Si.
Lecturer(s):	Dr. Wahono Widodo, M.Si. Dr. Elok Sudiby, M.Pd. Siti Nurul Hidayati, S.Pd., M.Pd.
Language:	<i>Bahasa Indonesia</i> (Indonesian Language)
Classification within the curriculum:	Compulsory / Elective
Teaching format/class hours per week during the semester:	3 contact hours of lectures (Indonesia credit semester or <i>sks</i> *)
Workload:	3 x 50 minutes lectures, 3 x 60 minutes structured activity, 3 x 60 minutes individual activity, 14 weeks per semester, 119 total hours per semester ~ 4.77 ECTS**
Credit point:	3 <i>sks</i> (4.77 ECTS)
Requirements:	-
Learning goals/competencies:	<p>Course Learning Outcomes (CLOs): After taking this course, students will be able to:</p> <ol style="list-style-type: none"> 1. Apply research methods to solve educational problems according to related fields of study; 2. Master the concepts of educational research including research paradigms, types of research, studies of current research articles, variables, research designs, research instruments, research techniques, data analysis and interpretation of research results, as well as steps for preparing proposals. and research reports; 3. Have skills in compiling educational research proposals according to the field of study; and 4. Having a responsible attitude towards the process and results of the research that has been done.
Content:	This course examines research paradigms, research approaches, types of research, studies of recent research articles, hypotheses, variables, research designs, research instruments, research techniques, data analysis and interpretation of research results, as well as steps for preparing proposals and research report. This course is presented in theory and an assignment for the preparation

	of an educational research proposal as the final product of the course.												
Attribute Soft skill:	Discipline, collaboration, responsibility, and argumentation in the natural classroom setting												
Study/exam achievements:	<p>Students are considered to be competent and pass if at least get 40% of the maximum final grade. The final grade (NA) is calculated based on the following weight:</p> <table border="1"> <thead> <tr> <th>Assessment Components</th> <th>Percentage Contribution</th> </tr> </thead> <tbody> <tr> <td>Participation</td> <td>20%</td> </tr> <tr> <td>Assignment</td> <td>30%</td> </tr> <tr> <td>Mid-semester test</td> <td>20%</td> </tr> <tr> <td>Final semester test</td> <td>30%</td> </tr> <tr> <td>Total</td> <td>100%</td> </tr> </tbody> </table>	Assessment Components	Percentage Contribution	Participation	20%	Assignment	30%	Mid-semester test	20%	Final semester test	30%	Total	100%
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Learning Methods:	Constructivist, student-centred approach, lecturing, discussion, and presentation (structured activities)												
Form of Media:	LCD, PowerPoint slides, and worksheets												
Literature (primary references):	<ol style="list-style-type: none"> 1. Creswell, J.W. 2008. Educational Research: Planning, Conducting, and Evaluating Quantitative Research. 3rd Edition. New Jersey: Pearson Prentice Hall. 2. Fraenkel, J.R., Wallen, N.E., Hyun, H. H. 2012. How to Design and Evaluate Research in Education. New York: McGraw-Hill Companies, Inc. 3. Cohen, Louis., Manion, Lawrence., Morrison, Keith. 2007. Research Methods in Education. Sixth Edition. New York: Routledge. 4. Tim Kurikulum Unesa. 2014. <i>Pedoman Panduan Penulisan Skripsi Mahasiswa S-1</i>. 												
Notes:	<p>*1 sks in learning process = three contact hours that consist of: (a) scheduled instruction in a classroom or laboratory (50 minutes); (b) structured activity (60 minutes); and (c) individual activity (60 minutes) according to the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 44 Year 2015 jo. the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 50 Year 2018.</p> <p>**1 sks = 1,59 ECTS</p>												