MINISTRY OF EDUCATION, CULTURE, RESEARCH, AND TECHNOLOGY
UNIVERSITAS NEGERI SURABAYA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
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Master Program of Science Education **Module Handbook**

Module Name :	*Metodologi Penelitian Pendidikan IPA/ Research Method of Science Education*
Module level :	*Master Program of Science Education*
Course Code :	*8410103189*
Abbreviation, if applicable:	*-*
Courses included in the module, if applicable:	*Not Applicable*
Semester/Term	*1st /First Year*
Module coordinator(s)	*Prof. Dr. Budi Jatmiko, M.Pd.*
Lecturer(s):	*Prof. Dr. Budi Jatmiko, M.Pd.* *Prof. Dr. Suyatno, M.Si.*
Language:	*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 CU*)*
Workload :	*3 x 50 minutes lectures, 3 x 90 minutes structured activity, 3 x 100 minutes individual activity, 14 weeks per semester, 168 total hours per semester ~ 6,72 ECTS***
Credit Point:	*3 CU (6,72 ECTS)*
Requirements:	
Learning goals/competencies:	**Knowledge (KNO-1)** *CLO-1* *Mastering the general approach to the philosophy of science, conceptualization, and the basic principles of scientific development* **SKILL (SKI-1)** *CLO-2* *Develop science learning by utilizing relevant scientific philosophies in building science in the field of science education and forming a personality with character.* **SKILL (SKI-2)** *CLO-3* *Solving science learning problems by applying a philosophical approach, especially the philosophy of science*
	This course discusses general approaches to philosophy of science, conceptualization, and scientific methodology, as well as in-depth

<table>
<tr><td>Content</td><td>issues relevant to education. In addition, this course is designed to provide an in-depth understanding of ontology, epistemology and axiology, the characteristics and nature of science as a vehicle to broaden the vision of prospective masters and be critical in developing and applying science.</td></tr>
<tr><td>Attribute Soft skill:</td><td>Scientific report, public speaking, and team work</td></tr>
<tr><td>Study/exam achievements:</td><td>Students are considered to be competent and pass if at least get 70. Final score is calculated as follows: 20% Participation + 30% Assignment + 20% Middle Exam (UTS) + 30% Final Exam (UAS)
Final index is defined as follow:
<table><tr><th>Index</th><th>Converted Score</th><th>Score Range</th></tr><tr><td>A</td><td>4.00</td><td>85 ≤ A ≤ 100</td></tr><tr><td>A-</td><td>3.75</td><td>80 ≤ A- < 85</td></tr><tr><td>B+</td><td>3.50</td><td>75 ≤ B+ < 80</td></tr><tr><td>B</td><td>3.00</td><td>70 ≤ B < 75</td></tr><tr><td>B-</td><td>2.75</td><td>65 ≤ B- < 70</td></tr><tr><td>C+</td><td>2.50</td><td>60 ≤ C+ < 65</td></tr><tr><td>C</td><td>2.00</td><td>55 ≤ C < 60</td></tr><tr><td>D</td><td>1.00</td><td>40 ≤ D < 55</td></tr><tr><td>E</td><td>0.00</td><td>0 ≤ E < 40</td></tr></table></td></tr>
<tr><td>Learning Methods :</td><td>Case Method, Discussion, and Article Review</td></tr>
<tr><td>Form of Media:</td><td>Power Point slides, e-book file, and multimedia.</td></tr>
<tr><td>Literature (primary references):</td><td>Relevant educational research methodology books.
Relevant statistics books.
Articles in Reputable International Journals in the Current Education sector.</td></tr>
<tr><td>Notes:</td><td>*1 CU in learning process = three periods consist of: (a) scheduled instruction in a classroom (50 minutes); (b) structured activity (90 minutes); and (c) individual activity (100 minutes) according to according to Rector Decree of Universitas Negeri Surabaya No. 598/UN38/HK/AK/2020
**1 CU = 2.24 ECTS according to Rector Decree of Universitas Negeri Surabaya No. 598/UN38/HK/AK/2020
*Total ECTS = (total hours workload/ 60 min) / 25 hours
Each ECTS is equals with 25 hours</td></tr>
<tr><td>Last Amendment</td><td>5 January 2023</td></tr>
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