



UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF MATHEMATICS EDUCATION

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Bachelor of Education in Mathematics

MODULE HANDBOOK

Module name:	Educational Science
Module level, if applicable:	Undergraduate
Code:	MDK6201
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	1 st
Module coordinator:	Arif Rohman, M.Si.
Lecturer(s):	Arif Rohman, M.Si.; Estu Miyarso, M.Pd. and team
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory course
Teaching format / class hours per week during the semester:	100 minutes lectures and 120 minutes structured activities per week.
Workload:	Total workload is 90,67 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes self-study per week for 16 weeks.
Credit points:	2
Prerequisites course(s):	-
Course outcomes:	After taking this course the students have ability to: CO1. Demonstrate an attitude of responsibility and independence in carrying out individual tasks and group assignments CO2. Communicate ideas in solving problems in writing or verbally

	<p>CO3. Know education theory and practice from a global perspective</p> <p>CO4. Know and understand the role and relevance of science in society</p> <p>CO5. Have particular knowledge of their field of education and/or teaching discipline(s) and the learning theory and practice relevant in that field or discipline</p>																																				
Content:	<p>This course discusses the basic principles of education, educational science, and their application in educational practice which includes: educational phenomena, historical viewpoints of education, the nature of education and science of education, education as a system, and issues (educational issues in context education innovation).</p>																																				
Study / exam achievements:	<p>Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude. The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude.</p> <p>The final mark will be weight as follow:</p> <table border="1"> <thead> <tr> <th>No</th> <th>CO</th> <th>Assessment Object</th> <th>Assessment Technique</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CO2, CO3</td> <td>Presentation</td> <td>Observation</td> <td>15%</td> </tr> <tr> <td>2</td> <td>CO4, and CO5</td> <td>a. Individual assignment</td> <td rowspan="5">Written test</td> <td>10%</td> </tr> <tr> <td></td> <td></td> <td>b. Group assignment</td> <td>10%</td> </tr> <tr> <td></td> <td></td> <td>c. Developing Scientific Papers</td> <td>20%</td> </tr> <tr> <td></td> <td></td> <td>d. Mid exam</td> <td>20%</td> </tr> <tr> <td></td> <td></td> <td>e. Final exam</td> <td>25%</td> </tr> <tr> <td colspan="4">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO2, CO3	Presentation	Observation	15%	2	CO4, and CO5	a. Individual assignment	Written test	10%			b. Group assignment	10%			c. Developing Scientific Papers	20%			d. Mid exam	20%			e. Final exam	25%	Total				100%
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		e. Final exam		25%																																	
Total				100%																																	
Forms of media:	Board, LCD Projector, Laptop/Computer, Internet Website																																				

Literature:	<ol style="list-style-type: none"> 1. Arif Rohman. 2009. Memahami Pendidikan dan Ilmu Pendidikan. Yogyakarta: Laksbang Mediatama. 2. Dwi Siswoyo dkk. 2007. Ilmu Pendidikan. Yogyakarta: UNY Press. 3. Driyarkara . 1980. Driyarkara tentang Pendidikan. Yogyakarta : Penerbit Kanisius. 4. John I. Goodlad,. Educational Renewal. San francisco : Jossey-Bass Publishers. 5. John Dewey. 1950. Democracy and Education. New York : The Macmillan Company. 6. Imam Barnadib & Sutari Imam Barnadib. 1996. Beberapa Aspek Substansial Ilmu Pendidikan. Yogyakarta : Penerbit Andi. 7. ----- .2002. Filsafat Pendidikan. Yogyakarta : Penerbit Adicita Karya Nusa. 8. Noeng Muhadjir. 2000. Ilmu Pendidikan dan Perubahan Sosial. Yogyakarta : Rake Sarasin. 9. Sumitro, dkk. 2006. Pengantar Ilmu Pendidikan. Yogyakarta : UNY Press. 10. Tilaar, H.A.R. 2002. Pendidikan dan Perubahan Sosial : Pengantar Pedagogik Transformatif untuk Indonesia . Jakarta : Penerbit Grasindo. 11. ----- 2005. Manifesto Pendidikan Nasional. Jakarta : Penerbit Buku Kompas. 12. Umar Tirtahardja & La Sulo. 1997. Pengantar Pendidikan. Jakarta : Ditjen Dikti, Depdikbud. 13. UU No. 20 Tahun 2003. Tentang Sistem Pendidikan Nasional. 14. Wardiman Djojonegoro .1996. Lima Puluh Tahun Perkembangan Pendidikan Indonesia. Jakarta : Depdikbud.
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PLO and CO Mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CO1						✓						
CO2								✓				
CO3						✓						
CO4								✓				
CO5								✓				