MODULE HANDBOOK

Module Name:	Philosophy of Mathematics Education
Module Level:	Sarjana (S-1) / Bachelor
Abbreviation, if applicable:	8420202057
Sub-heading, if applicable:	-
Course included in the module, if applicable:	-
Semester/term:	6/ Third year
Module Coordinator(s):	Prof. Dr. Mega Teguh Budiarto,M.Pd
Lecturer(s):	Prof. Dr. Tatag Yuli Eko Siswono, M.Pd Dr. Siti Khabibah, M.Pd
Language:	Indonesia
Classification within the curriculum:	Compulsory course/~~elective studies~~
Teaching format/class hours per week during the semester	Teaching format: lectures, tutorial assignment, and individual study. 2 x 170 minutes = 340 minutes = 5.67 hours lectures
Workload:	15 weeks per semester consisting of: ➢ 2 hours lectures (2 x 50 minutes) per week, ➢ 2 hours tutorial assignments (2 x 60 minutes) per week, ➢ 2 hours individual study (2 x 60 minutes) per week, Total workload : 14x2x170 minutes = 4,760 minutes = 3.17 ECTS*
Credit Point:	2
Requirements:	N/A

<table>
<tr><td>Learning Goals :</td><td>Knowledge
CLO-1: Understand the important role and nature of mathematics, various views of mathematics, the truth and characteristics of mathematics
CLO-2: Understand the important role of mathematical aesthetics, the position of mathematics in learning theory, and the basic principles in teaching and learning mathematics.
Skill
CLO-3: Apply philosophical principles in learning and teaching mathematics.</td></tr>
<tr><td>Content:</td><td>The Nature of Mathematics, Various Views on Mathematics, The Truth and Characteristics of Mathematics, Mathematical Aesthetics, The Position of Mathematics In Learning Theory, and The Basic Principles of Learning and Teaching Mathematics and Applying Philosophical Principles in Learning and Teaching Mathematics</td></tr>
<tr><td>Study/exam achievements</td><td>➢ Students are considered competent and pass if the final score calculated from the score of midterm exam, assignments, participation, and final exam is at least 55 or C.
➢ Final score is calculated as follows:
➢ 20% midterm exam + 30% assignments + 20% participation + 30% final exam
➢ Final index is defined as follow:

<table>
<tr><td>Index</td><td>Converted Score</td><td>Score Range</td></tr>
<tr><td>A</td><td>4.00</td><td>$85 \leq A \leq 100$</td></tr>
<tr><td>A-</td><td>3.75</td><td>$80 \leq A- < 85$</td></tr>
<tr><td>B+</td><td>3.50</td><td>$75 \leq B+ < 80$</td></tr>
<tr><td>B</td><td>3.00</td><td>$70 \leq B < 75$</td></tr>
<tr><td>B-</td><td>2.75</td><td>$65 \leq B- < 70$</td></tr>
<tr><td>C+</td><td>2.50</td><td>$60 \leq C+ < 65$</td></tr>
<tr><td>C</td><td>2.00</td><td>$55 \leq C < 60$</td></tr>
<tr><td>D</td><td>1.00</td><td>$40 \leq D < 55$</td></tr>
<tr><td>E</td><td>0.00</td><td>$0 \leq E < 40$</td></tr>
</table></td></tr>
<tr><td>Forms of Media</td><td>Slides and LCD projectors, whiteboard</td></tr>
</table>

Literature	[1] Siswono, T. 2014. *Filsafat Pendidikan Matematika dan Sejarah Matematika*. Modul PLPG UNESA [2] FitzSimmons, James A. 2014. *Philosophy of Teaching and Learning Mathematics*. http://plato.wilmington.edu/faculty/jfitzs/tchg_phi.htm. [3] Ernest, Paul. Tanpa tahun. *What is the Philosophy of Mathematics Education*. http://people.exeter.ac.uk/PErnest/pome18/PhoM_%20for_ICME_04.htm [4] Ernest, P. 1991.*The Philosophy of Mathematics Education*, London: Falmer Press. [5] Philosophy of Mathematics Education Journal ISSN 1465-2978 (Online) [6] Soedjadi, R. 1999. *Kiat-Kiat Pendidikan Matematika*. Dirjen Dikti, Depdikbud
Note	*Total hours per 1 credit in 1 semester={(1 credit x 170 minutes x 14 weeks)/60 minutes}=39,67 hours. Each ECTS equals with 25 hours therefore 1 credit in 1 semester equals 1,59 ECTS.