



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:	Mathematics Curriculum and Learning
Module level, if applicable:	Undergraduate
Code:	PMA6204
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	4 th
Module coordinator:	Ali Mahmudi, Dr.
Lecturer(s):	Ali Mahmudi, Dr.
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 completing tasks CO2. Demonstrate oral communication skills CO3. Explain comprehensively the curriculum concept CO4. Describe the history of curriculum development in Indonesia

	<p>CO5. Analyzing learning tools and curriculum at the education unit level using curriculum concepts, basic concepts of education, pedagogic-didactic concepts, and school mathematics concepts and advanced mathematics.</p> <p>CO6. Design mathematical learning devices that are meaningful implementative</p>																									
Content:	<p>This course discusses about an assessment of (1) understanding, type, basis, and model of curriculum development, (2) curriculum component consisting of competency standards, standardization, process standards and assessment standards, (3) history of curriculum development in Indonesia, (4) education unit level curriculum, (5) mathematics learning tools</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>CO 2</td> <td>Presentation</td> <td>Observation</td> <td>10%</td> </tr> <tr> <td>2</td> <td>CO 3, CO 4</td> <td>Final Exam</td> <td>Written test</td> <td>50%</td> </tr> <tr> <td>3</td> <td>CO 5, CO 6</td> <td>Tasks</td> <td>Assignment</td> <td>40%</td> </tr> <tr> <td colspan="4" style="text-align: right;">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO 2	Presentation	Observation	10%	2	CO 3, CO 4	Final Exam	Written test	50%	3	CO 5, CO 6	Tasks	Assignment	40%	Total				100%
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1	CO 2	Presentation	Observation	10%																						
2	CO 3, CO 4	Final Exam	Written test	50%																						
3	CO 5, CO 6	Tasks	Assignment	40%																						
Total				100%																						
Forms of media:	Board, LCD Projector, Laptop/Computer																									
Literature:	<ol style="list-style-type: none"> 1. Sukmadinata, N. S. 2009. <i>Pengembangan Kurikulum Teori dan Praktek</i>. Bandung: PT Remaja Rosda Karya. 2. Nasution, S. 2008. <i>Asas-Asas Kurikulum</i>. Jakarta: Bumi Aksara. 3. Olivia, P. F. <i>Developing the Curriculum</i>. Boston: Little, Brown, and Co. 1982. 4. Doll, R.C. <i>Curriculum Improvement, Decision Making and Process</i>, Boston: Allyn and Bacon. 5. Hamalik, O. 1993. <i>Pengembangan Kurikulum dan Pelatihan: Sistem dan Prosedur</i>. Bandung: Trigenda Karya. 																									

	<p>6. Undang-undang nomor 20 Tahun 2003 tentang Sistem Pendidikan Nasional.</p> <p>7. Permendikbud nomor 20 tahun 2016 tentang Standar Kompetensi Lulusan Kurikulum 2013.</p> <p>8. Permendikbud nomor 20 tahun 2016 tentang Standar Isi Kurikulum 2013.</p> <p>9. Permendikbud nomor 20 tahun 2016 tentang Standar Proses Pembelajaran Kurikulum 2013.</p> <p>10. Permendikbud nomor 20 tahun 2016 tentang Standar Penilaian Hasil Belajar Kurikulum 2013.</p> <p>11. Permendikbud nomor 61 tahun 2014 tentang Kurikulum Tingkat Satuan Pendidikan</p>
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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							✓					
CO6								✓				