



UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF MATHEMATICS EDUCATION

Jalan Colombo Nomor 1 Yogyakarta 55281

Telepon: (0274) 565411 Pesawat 217, (0274) 565411 (TU); Fax. (0274) 548203

Laman: fmipa.uny.ac.id, E-mail: humas_fmipa@uny.ac.id

Bachelor of Education in Mathematics

MODULE HANDBOOK

Module name:	Algebra
Module level, if applicable:	Undergraduate
Code:	MAA6201
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	1 st
Module coordinator:	Caturiyati, M.Si.
Lecturer(s):	Caturiyati, M.Si.
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 collaborative attitude and independence in carrying out individual tasks and group assignments CO2. Communicate ideas in solving mathematical problems in writing or verbally CO3. Able to explain school algebra concepts CO4. Resolve school algebra problems and higher levels CO5. Making learning design for school algebra material CO6. Able to write systematically evidences related to theorems in algebra as supplies for making school algebra learning media

Content:	This course discusses the scope and conceptual definitions of algebraic components, polynomials, algebraic fractions, exponents, logarithms, root forms and absolute values, understands various forms of equations and algebraic inequalities, graphs algebraic functions, arithmetic series, and geometric series.																																												
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>CO1</td> <td>Presentation</td> <td>Observation</td> <td>10%</td> </tr> <tr> <td>2</td> <td>CO2</td> <td>a. Individual</td> <td rowspan="5">Written test</td> <td rowspan="5">10%</td> </tr> <tr> <td></td> <td>CO3</td> <td>Assignment</td> </tr> <tr> <td></td> <td>CO4</td> <td>b. Group</td> <td>10%</td> </tr> <tr> <td></td> <td>CO5</td> <td>Assignment</td> <td>20%</td> </tr> <tr> <td></td> <td>CO6</td> <td>c. Quiz</td> <td>20%</td> </tr> <tr> <td></td> <td></td> <td>d. Mid</td> <td>30%</td> </tr> <tr> <td></td> <td></td> <td>e. Final exam</td> <td></td> <td></td> </tr> <tr> <td colspan="4">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO1	Presentation	Observation	10%	2	CO2	a. Individual	Written test	10%		CO3	Assignment		CO4	b. Group	10%		CO5	Assignment	20%		CO6	c. Quiz	20%			d. Mid	30%			e. Final exam			Total				100%
No	CO	Assessment Object	Assessment Technique	Weight																																									
1	CO1	Presentation	Observation	10%																																									
2	CO2	a. Individual	Written test	10%																																									
	CO3	Assignment																																											
	CO4	b. Group			10%																																								
	CO5	Assignment			20%																																								
	CO6	c. Quiz			20%																																								
		d. Mid	30%																																										
		e. Final exam																																											
Total				100%																																									
Forms of media:	Board, LCD Projector, Laptop/Computer																																												
Literature:	<ol style="list-style-type: none"> Sullivan, Michael. 2007. Algebra and Trigonometry. Beecher, J.A., Penna, J.A., Bit, M.L. 2006. College Algebra. Pearson Education, Inc as Pearson Addison-Wesley. Holliday, et. al. 2008. Algebra 1. Glencoe Mc Graw Hill. Holliday, et. al. 2008. Algebra 2. Glencoe Mc Graw Hill 																																												

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CO1		✓										
CO2			✓									
CO3					✓							
CO4							✓					
CO5								✓				
CO6									✓			