



UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences

Department of Mathematics

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MODULE HANDBOOK

Module Name	Advance Capita Selecta in Algebra A
Module level, if applicable	Doctoral
Code, if applicable	MMM 7212
Subtitle, if applicable	-
Courses, if applicable	Advance Capita Selecta in Algebra A
Semester(s) in which the module is taught	1 st or 2 nd semester
Person responsible for the module	Head of Algebra Laboratory
Lecturer(s)	1. Indah Emilia Wijayanti, Prof., Dr., M.Si. 2. Budi Surodjo, Dr., M.Si., 3. Yeni Susanti, Dr., M.Si. 4. Uha Isnaini, Ph.D., M.Si.
Language	Bahasa Indonesia
Relation to curriculum	Elective Course
Teaching methods	Lecture, presentation, project.
Workload (incl. contact hours, self-study hours)	Total workload is 136 hours per semester, which consists of 150 minutes lectures per week for 14 weeks, 180 minutes structured activities per week, 180 minutes individual study per week, in total is 16 weeks per semester, including mid exam and final exam.
Credit points	3

Required and recommended prerequisites for joining the module	Students master the basic concepts of combinatorics, graph theory, coding or chryptography.												
Module objectives/intended learning outcomes	Upon successful completion, students will be able to: CO 1. prove the properties related to the topic being discussed. CO 2. formulate assumptions related to the material discussed. CO 3. generalize the concept being discussed into their research topic and validate it												
Content	This course gives materials about advanced algebra topics that have not been covered in other courses such as combinatorics, graph theory, coding theory and chryptography.												
Examination forms	Oral presentation, essay, paper												
Study and examination requirements	The final mark will be computed from a proportional weight of assignments, mid examination and final examination. The final mark will be weighted as follows: <table border="1"> <thead> <tr> <th>No</th> <th>Assessment methods (components, activities)</th> <th>Weight (percentage)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Final Examination</td> <td>20 - 30%</td> </tr> <tr> <td>2</td> <td>Mid-Term Examination</td> <td>20 - 30%</td> </tr> <tr> <td>3</td> <td>Class Activities: Quiz, Project, etc.</td> <td>40 - 60%</td> </tr> </tbody> </table> Minimum final mark to pass : B	No	Assessment methods (components, activities)	Weight (percentage)	1	Final Examination	20 - 30%	2	Mid-Term Examination	20 - 30%	3	Class Activities: Quiz, Project, etc.	40 - 60%
No	Assessment methods (components, activities)	Weight (percentage)											
1	Final Examination	20 - 30%											
2	Mid-Term Examination	20 - 30%											
3	Class Activities: Quiz, Project, etc.	40 - 60%											
Media employed	Whiteboard, LCD Screen, Laptop, Zoom Media												
Reading list	References will be determined by the lecturer at the beginning of the lecture, including graduate textbooks and the latest relevant journals												

CO-PLO Mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6
CO 1			√	√		
CO 2	√	√	√	√	√	√
CO 3	√	√	√		√	√

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