

UNIVERSITAS GADJAH MADA Faculty of Mathematics and Natural Sciences

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Undergraduate Programme in Mathematics

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MODULE HANDBOOK

Module name	Internship Type B
Module level, if applicable	Bachelor
Code, if applicable	MMM-4006
Subtitle, if applicable	-
Courses, if applicable	Internship Type B
Semester(s) in which the	7th/8th
module is taught	
Person responsible for the	Chair of the UP-Math
module	
Lecturer(s)	
Language	Bahasa Indonesia
Relation to curriculum	Elective course for students of fourth year (7th or 8th semester) Bachelor Degree
Type of teaching, contact	170 minutes activities each week each credit
hours	
Workload	Total workload 272 hours per semester
Credit points	6 (six)
Requirements according to	Report and supporting document to the supervisor(s).
the examination regulations	
Recommended	a. Students have taken at least 100 credits, with GPA at least $\frac{2.75}{2.75}$, and total credits of
prerequisites	grade D is at most 25%.
	or VIII. The Interaction can be done during semester II/VIII or semester break for 7
	up to 11 weeks (excluded report writing).
Module	After completed this course students should have:
objectives/intended	CO 1. ability to apply mathematical thinking to identify mathematical application (in the
learning outcomes	industry they conduct internship)
	CO 2. ability to improve their soft skill
	CO 3. good confidence, emotional maturity, good ethics and lifelong learner principle
Content	Topic is chosen by students or supervisor
Study and examination	The final mark will be decided by considering:
requirements and forms of	1. ability in mathematical thinking to identify mathematical application (by Supervisor
examination	Team) (30%) (to measure CO 1)
	2. communication and collaboration skill (by Supervisor Team) (20%) (to measure CO 2)
	3. report of the internship: clearness completeness (by Supervisor Team) (20%) (to $(20, 2)$)
	measure CO 2)
	4. sen-confident, emotion maturity, effics, and being active during the internship (by Supervisor from the company of the interaction) (30%) (to measure (O 3)
Media employed	Projector board lapton online meeting platform paper
Reading List	Book and journal paper of related topics
Reaching List	book and journal paper of related topics

PLO and CO Mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9
CO 1		v							
CO 2				v			v		

	CO 3								v	
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PLOs of the UP-Math

- PLO 1 : devote to God Almighty, Pancasila minded, and aware of the interest of the nation;
- PLO 2 : are able to recognize mathematics-related problems, assess their solvability and solve them within a specified time frame;
- PLO 3 : are able to develop their logic and mathematical thinking. They are in particular able to formulate mathematical hypotheses and have an understanding of how such hypotheses can be verified or falsified using mathematical methods;
- PLO 4 : have sufficient knowledge in information technology and have ability to use it to support the teaching-learning and research process;
- PLO 5 : have comprehensive knowledge in mathematical modeling and able to create mathematical models, both in mathematics, in other fields, and in real problems. They are in particular able to solve and determine the strategy how to solve the problems;
- PLO 6 : have generalization and abstraction abilities and are able to recognize analogies and basic patterns;
- PLO 7 : are able to communicate in mathematical language, oral and writing, concisely, clearly, and well-organized;
- PLO 8 : have a responsibility, confidence, emotional mature, ethics, and lifelong learner principle;
- PLO 9 : have ability to apply their mathematics ability in their carrier related to mathematics and to continue their program in master and doctoral programmes.