



UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences

Mathematics Department

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Undergraduate Program in Statistics

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MODULE HANDBOOK

Module name	Pengantar Teori Keputusan (Introduction to Decision Theory)
Module level, if applicable	Bachelor
Code, if applicable	MMS-4421
Subtitle, if applicable	-
Courses, if applicable	-
Semester(s) in which the module is taught	7/fourth year
Person responsible for the module	Dr. Herni Utami, M.Si.
Lecture(s)	Dr. Herni Utami, M.Si., Widya Irmaningtyas, M.Sc.
Language	
Classification within the Curriculum	Compulsory course / Elective Studies
Teaching format /class hours per week during the semester:	3 hours lecture
Workload	3 hours lectures, 6 hours individual study, 14 weeks per semester, and total 126 hours a semester
Credit points	3
Requirements	MMS-1404 Metode Statistika I (Statistical Methods I)
Module objectives/intended learning outcomes	After completing this course the students have ability to : CO 1. Interpret and use the basic of Statistical decision theory CO 2. Choose appropriate mathematical decision model for decision making CO 3. Apply the model and make decision for real cases
Content	Principles for decision analysis, Subjective probability and utility theory, States of nature, strategi for decision making, Bayesian decision function.
Study and xamination requirements and forms of examination	The weight of assignments will be as follows: i. Quiz, homework 10% ii. Group discussion 15% iii. Mid semester exam 35% iv. Final exam 40% Grade scale: A 85 ≤ score A/B 75 ≤ score < 85 B 60 ≤ score < 75 B/C 50 ≤ score < 60 C 40 ≤ score < 50 D 20 ≤ score < 40 E score < 20
Media employed	Slides and LCD projectors, whiteboards
Reading List	Berger, J.O., 1985, Statistical Decision Theory: Foundations, Concepts, and Methods, Springer-Verlag, New York. Nicholas, T.L., 2013, Statistical Decision Theory, Springer, New York.

CO and PLO mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7
CO 1	x						
CO 2		x					
CO 3						x	