



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 Statistika Matematik II (Introduction to Mathematical Statistics II)
Module level, if applicable	Bachelor
Code, if applicable	MMS -2483
Subtitle, if applicable	
Courses, if applicable	
Semester(s) in which the module is taught	4/second year
Person responsible for the module	Prof. Subanar, Ph.D.
Lecture(s)	Prof. Subanar, Ph.D.
Language	Bahasa Indonesia
Classification within the Curriculum	compulsory/ elective
Teaching format /class hours per week during the semester:	3 hours lecture
Workload	3 hours lectures and 6 hours individual study per week, 14 weeks per semester, total 126 hours a semester
Credit points	3
Requirements	MMS 2420 Introduction to Mathematical Statistics I, MMM-1102 Calculus II
Module objectives/intended learning outcomes	After completing this course the students have ability to : CO 1. Have a good understanding in the concept of sampling distribution, sufficient statistic, ancillary, and completeness. CO2. Have an ability to estimate parameter and to evaluate the goodness of an estimator. CO3. Have an ability to do hypothesis testing and its evaluations. CO4. To apply the theory of estimation and hypothesis testing to real data.
Content	Statistic and sampling distributions, Sufficient statistic, Exponential family, Point estimation and its evaluation, Hypothesis testing, Application to real data
Study and examination requirements and forms of examination	The weight of assignments will be as follows: i. Quiz, homework 15% ii. Mid semester exam 40% iii. Final exam 45% 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, whiteboard
Reading List	1. Bain, L.J., Engelhart, M. (1992). Introduction to Probability and Mathematical

	<p>Statistics.Duxbury Press.</p> <p>2. Hogg,R.V.,Kean,J.W.,Craig,A.T.(2005).Introduction to Mathematical Statistics.Pearson Prentice Hall.</p> <p>3. Larsen,R.J.,Marx,M.L.(2006).An Introduction to Mathematical Statistics and Its Applications.Pearson Prentice Hall</p>
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Program Learning Outcomes (PLO)

PLO-1 have strong basic statistics and mathematics in problem solving analysis.

PLO-2 have statistical thinking and able to develop.

PLO-3 have a good ability to utilize technology and statistical software in teaching and research.

PLO-4 have experience in working on real cases in the field of statistics.

PLO-5 have a good ability to communicate statistics in writing and oral.

PLO-6 have ability to further studies, and or lifelong learning.

PLO-7 have professional ethics and soft skill.

CO and PLO mapping

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