



UNIVERSITAS GADJAH MADA
 Faculty of Mathematics and Natural Sciences
 Mathematics Department

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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 25% ii. Mid semester exam 35% iii. Final exam 40%

	<p>Grade scale:</p> <p>A: $85 < \text{score} \leq 100$</p> <p>A-: $80 < \text{score} \leq 85$</p> <p>A/B: $75 < \text{score} \leq 80$</p> <p>B+: $70 < \text{score} \leq 75$</p> <p>B: $65 < \text{score} \leq 70$</p> <p>B-: $60 < \text{score} \leq 65$</p> <p>B/C: $55 < \text{score} \leq 60$</p> <p>C+: $50 < \text{score} \leq 55$</p> <p>C: $45 < \text{score} \leq 50$</p> <p>C-: $40 < \text{score} \leq 45$</p> <p>C/D: $35 < \text{score} \leq 40$</p> <p>D+: $30 < \text{score} \leq 35$</p> <p>D: $20 < \text{score} \leq 30$</p> <p>E: $0 \leq \text{score} \leq 20$</p>
Media employed	Slides and LCD projectors, whiteboard
Reading List	<ol style="list-style-type: none"> 1. Bain, L.J., Engelhart, M. (1992). Introduction to Probability and Mathematical Statistics. Duxbury Press. 2. Hogg, R.V., Kean, J.W., Craig, A.T. (2005). Introduction to Mathematical Statistics. Pearson Prentice Hall. 3. Larsen, R.J., Marx, M.L. (2006). An Introduction to Mathematical Statistics and Its Applications. Pearson Prentice Hall

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		