

UNIVERSITAS GADJAH MADA
 Faculty of Mathematics and Natural Sciences
 Department of Mathematics

Sekip Utara Bulaksumur Yogyakarta 55281 Telp: +62 274 552243 Fax: +62 274 555131 Email: math@ugm.ac.id Website: <http://math.fmipa.ugm.ac.id>



Graduate Program in Mathematics

Telp : +62 274 552243
 Email : maths2@ugm.ac.id;
 Website : <http://s2math.fmipa.ugm.ac.id>

MODULE HANDBOOK

Module Name	Inferensi Bayesian (Bayesian Inference)
Module level, if applicable	Master Program
Code, if applicable	MMM5408
Subtitle, if applicable	-
Courses, if applicable	-
Semester(s) in which the module is taught	4/Second year
Person responsible for the module	Chair of Statistics Laboratory
Lecturer(s)	Dr. Gunardi, M.Si.
Language	Bahasa Indonesia
Relation to curriculum	Elective <i>for</i> Master Degree in Mathematics,
Teaching methods	3 hours lecture
Workload (incl. contact hours, self-study hours)	3 hours lectures, 6 hours individual study, 14 weeks per semester, and total 126 hours a semester
Credit points	3

Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	On successful completion of this course, students should be able to: : <ul style="list-style-type: none"> ● CO 1 understands Bayesian inference ● CO 2 understands Bayesian of assessment assumptions ● CO 3 understands Random effect model ● CO 4 Aply Bayesian inference
Content	nature of Bayesian inference, Bayesian inference for the difference between two mean, Inference of variance ratio, Bayesian of assessment assumptions, inference of robustness, Random effect model, Analysis of cross-classification design, Bayesian multivariate analysis
Examination forms	<i>oral presentation and essay.</i>
Study and examination requirements	The weight of assignments will be as follows: <ol style="list-style-type: none"> 1. Quiz, homework, presentation 30% 2. Mid-semester exam 35% 3. Final exam 35%
Media employed	online platforms, Learning management systems, LCD projectors, and whiteboards.
Reading list	1. Box, WG. E. P. and Tiao G. C., 1992, <i>Applied Multivariate Statistical Analysis</i> , John Wiley & Sons, Inc.

CO-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				
CO 4				x			

Compilation Date : 2/1/2023

Modified Date : 2/1/2023

