

UIN SUNAN KALIJAGA YOGYAKARTA

FACULTY OF SCIENCE AND TECHNOLOGY

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Undergraduate Programme in

Physics

Telp : +62274 519739 Email : fisika@uin-suka.ac.id Website : https://fisika.uin-suka.ac.id/

MODULE HANDBOOK

Module Name	Evaluation and Calibration of Measuring Instruments						
Module level, if applicable	Bachelor						
Code, if applicable	FIS424047						
Subtitle, if applicable	-						
Courses, if applicable	Evaluation and Calibration of Measuring Instruments (Evaluasi dan Kalibrasi Alat Ukur)						
Semester(s) in which the module is taught	4 th (fourth)						
Person responsible for the module	Chair of Instrumentation Interest Area						
Lecturer(s)	Frida Agung Rakhmadi, S.Si., M.Sc						
Language	Indonesia						
Relation to curriculum	Elective course in the second year (4 th semester) Bachelor Degree						
Type of teaching, contact hours	150 minutes lectures and 180 minutes structured activities per week.						
Workload	Total workload is 136 hours per semester, which consists of 150 minutes lectures per week for 14 weeks, 180 minutes structured activities per week, 180 minutes						
	individual study per week, in total is 16 weeks per semester, including mid exam and final exam						
Credit points	3						
Requirements according to the	Minimum attendance 75%						
examination regulations	All assignments must be submitted before the exam						
Recommended prerequisites	-						
Module objectives/intended learning	No prerequisites stated on						
outcomes	After completing this course, the students: CO 1. Understand the philosophy of measuring instrument evaluation						
outcomes	CO 2. Understand the static characteristics of measuring instruments						
	CO 3. Inderstand the dynamic characteristics of measuring instruments						
	CO 4. Evelop a plan for the evaluation stages of measuring instruments and implement it						
	CO 5. Prepare evaluation reports of measuring instruments and present them						
	CO 6. Understand metrology and its scope						
	CO 7. Understand the position and role of measuring instruments in strengthening metrology						
	CO 8. Manage measuring instruments and prepare reports.						
	CO 9. Understand the position and role of measuring instrument calibration in						
	strengthening metrology.						
	CO 10. Calibrate measuring instruments and prepare reports.						
Content	 a. Philosophy of measuring instrument evaluation b. Static and dynamic characteristics of measuring instruments c. Stages of evaluating measuring instruments d. Metrology and its scope e. The position and role of measuring instruments in strengthening metrology f. Stages of using measuring instruments 						



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	 g. The position and role of measuring instrument calibration in strengthening metrology h. Stages of measuring instrument calibration 						
Study and examination requirements and forms of examination	The fin	Assessment methods (components, activities)					Weight (percentage)
	1	Final Exam	35%				
	2	Mid-Term Examination					35%
	3	Class Activities : Quiz, Homework, etc.					30%
	number value with the following categories: NO						
		Value	Value		Value	Value	
	1	≥ 95	Α	7	65-69.99	B/C	
	2	90-94.99	Α-	8	60-64.99	C+	
	3	85-89.99	A/B	9	55-59.99	С	
	4	80-84.99	B+	10	50-54.99	C-	
	5	75-79.99	В	11	55-34.99	D	
	6	70-74.99	B-	12	<35	E	
Media employed	White-	-board, Lcd P	rojector, e-	learning	(<u>https://dari</u>	ng.uin-suka.a	<u>c.id/</u>)
Reading list	 Alan S Morris dan Reza Langari. 2016. Measurement and Instrumentation: Theory and Application, Second Edition. Academic Press. Riyanto 2014. Validasi dan Verifikasi Mtode Uji. Deepublish Publisher Didah Nur Faridah, Dede Erawan, Komar Sutriah, Anwar Hadi, dan Fajarina Budiantari, 2014. Implermentasi SNI ISO/IEC 17025-2017. Badan Standardisasi Nasional 						

PLO and CO Mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9
CO 1			٧						
CO 2			٧	٧	٧				
CO 3			٧						
CO 4			٧	٧	٧				
CO 5			٧	٧	٧				
CO 6			٧						
CO 7			٧						
CO 8			٧	٧	٧				
CO 9			٧						
CO 10			٧	٧	٧				