

UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences

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Bachelor in Electronics and Instrumentation

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MODULE HANDBOOK

Module name Industrial Instrumentation Experiment Module level, if applicable Code, if applicable MII 2325 Courses, if applicable Industrial Instrumentation Experiment Semester(s) in which the module is taught Person responsible for the module Lecturer(s) Tri Wahyu Supardi, S.Si., M.Cs	
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the module	
Lecturer(s) Tri Wahyu Supardi, S.Si., M.Cs	
The training disparedly storing tribos	
Language English and Indonesia	
Relation to curriculum 1.Undergraduate degree program, optional, 3rd semester.	
2.International undergraduate program, optional, 3rd semeste	er.
Teaching methods	
Workload (incl. 1. Lectures: 1 x 50 = 150 minutes per week.	
contact hours, self- 2. Exercises and Assignments: 1 x 50 = 100 minutes per week.	
study hours) 3. Private study: 1 x 50 = 50 minutes per week.	
Credit points 1	
Requirements Minimum attendance at lectures is 75% (according to UGM re	gulation). Final
according to the score is evaluated based on practice experiments (35 %), expe	•
examination (35%), and final exam (30%).	•
regulations	
Required and	
recommended	
prerequisites for	
joining the module	
Learning outcomes	
and their (CO-1): Able to use a variety of industrial instrumentation dev	rice
corresponding PLOs (CO-2): Able to understand and create Block Flow Diagram	
(CO-3): Able to understand and create Process Flow Diagram	
(CO-4): Able to understand and create P&ID (Piping & Instrum	nentation Diagram)
(confirmation and areas are the proof of the same areas area	

	-	21.0	601	603	603	CO4				
	Program	PLO PLO1	CO1 √	CO2	CO3 √	CO4 √	-			
	Learning	PLO2	V V	\ \ \ \	V	V	+			
	Outcome	PLO3	V	\ \ \	V	V	-			
	(PLO)	PLO4		-	V	\ \ \	\dashv			
		PLO5				•	-			
Content	1. Industrial Instrumentation Device 2. Block Flow Diagram 3. Process Flow Diagram 4. Piping & Instrumentation Diagram									
Study and examination requirements and examination forms	The evaluation 1. Practice 2. Report 3. Final Exam Assessment in level of students	s done using	benchma	rk asses	-					
Media employed		level of student understanding related to the target and class rank. e-learning Platform, LCD, glass board, and websites.								
Assessments and										
evaluation	Туре	Perc	entage	CO1	CO2	CO3				
	Practice		35	٧	٧	٧				
	Experiment		35	٧	٧	٧				
	report									
	Final Exam		30	٧	٧	٧	<u> </u>			
							+			
							-			
	Total 1. Unit	Layanan Insti	100							
Reading list	 Eksp. Instrumentasi Industri S1 Elekronika dan Instrumentasi UGM, Un Layanan Instrumentasi Jurusan Ilmu Komputer dan Elektronika FMIPA UGM. Dunn, W. C., 2005, Fundamentals of Industrial Instrumentation and Process Control, The McGraw-Hill Companies, Inc. Kuphaldt, T. R., 2013, Lessons in Industrial Instrumentation, Creative Commons Attribution License. IDC Technologies, -, Practical Instrumentation For Automation and Process Control, IDC Technologies. 									

Created date : December 29, 2022

Revision date :