

## UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences Department of Computer Science and Electronics Sekip Utara Bulaksumur Yogyakara 55281 Telp: +62 274 546194 Email: dep-ike.mipa@ugm.acid Website: http://dcse.fmipa.ugm.acid

## Bachelor in Electronics and Instrumentation

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**MODULE HANDBOOK** 

Module name	Experiment on Advanced Electronics					
Module level, if	Undergraduate					
applicable						
Code, if applicable	MII2323					
Courses, if applicable	Experiment on Advanced Electronics					
Semester(s) in which	Even semester					
the module is taught						
Person responsible for	Dr. Dyah Aruming Tyas, S.Si.					
the module						
Lecturer(s)	Dr. Dyah Aruming Tyas, S.Si.					
Language	Bahasa Indonesia and English					
Relation to curriculum	1. It is a mandatory course for the undergraduate degree program in 4 <sup>th</sup>					
	semester.					
	2. It is a mandatory course for the international undergraduate degree program					
	in 4 <sup>th</sup> semester.					
Teaching methods	1. Undergraduate degree program delivered using lectures and practicum					
	instruction with students less than 30.					
	2. International undergraduate degree program delivered using lectures and					
	practicum instruction with students less than 30.					
Workload (incl.	1. Lectures: 1 x 100 = 100 minutes per week.					
contact hours, self-	2. Exercises and Assignments: 1 x 50 = 50 minutes per week.					
study hours)	3. Self-study: 1 x 50 = 50 minutes per week.					
Credit points	1 Credit Points					
Requirements	A student must have attended at least 75% of the lectures to sit in the exams.					
according to the						
examination						
regulations						
Required and	Advanced Electronics (MII2312)					
recommended						
prerequisites for						
joining the module						
Learning outcomes	After completing this module, a student is expected to:					
and their						
corresponding PLOs	circuits.					
	CO2. Students can explain the stages in designing sequential circuits.					
	CO3. Students are able to design sequential circuits through the stages of					
	sequential circuit synthesis.					
	CO4. Students can describe the function of a sequential circuit through the					
	stages of sequential circuit analysis.					

	CO6. able and	l components. proficient in tr	anslati	ng an el	ectroni	cs and ir	nstrume	ntation	
		nto a system d ion of hardwar	0		rm of so	ottware,	nardwa	are or a	
	PL	0	CO1	CO2	CO3	CO4	CO5	CO6	
	Program	PLO1							
	Learning	PLO2	٧	V	٧				
	Outcome	PLO3				V	V		
	(PLO)	PLO4						٧	
		PLO5							
Content		e Multivibrator table Multiviik							
	-								
Study and	The evaluation	is done in thre	ee form	is, name	ely:				
examination	1. Final exam								
requirements and	2. Case Study								
examination forms						1.10			
Media employed	Projector, whit	eboard, presei	ntation	. And e-	learnin	g platfol	rm (elo	K)	
Assessments and	Turne	Dersont		<b>CO1</b>	CO2	CO3	604	CO5	<b>CO</b> (
evaluation	Type	Percent 7	.age	CO1 √	02	03	CO4	COS	CO6
	Practicum 1 Practicum 2	7		v					
		7		v	-/				
	Practicum 3				<u>۷</u>				
	Practicum 4	7			٧				
	Practicum 5	7				V			-
	Practicum 6	7				V			
	Practicum 7	7					V		
	Practicum 8	7					V		
	Practicum 9	7						V	
	Practicum 10	7						V	
	Case Study	10							٧
	Final Exam	20		[					٧
	11					1	1	1	· · · · ·
	Total	100							

Created date : December 20, 2022

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Revision date