

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	Microcontroller and Microcomputer					
Module level, if applicable	Bachelor					
Code, if applicable	FIS425048					
Subtitle, if applicable	-					
Courses, if applicable	Microcontroller and Microcomputer (Mikrokontroler dan Mikrokon	mputer)				
Semester(s) in which the module is	5 th (fifth)					
taught						
Person responsible for the module	Chair of Instrumentation Interest Area					
Lecturer(s)	Nia Maharani, S.T., M.Eng. and Rochan Rifai, S.Si., M.Sc.					
Language	Indonesia					
Relation to curriculum	Elective course in the third year (5 th semester) Bachelor Degree					
Type of teaching, contact hours	150 minutes lectures and 180 minutes structured activities per week	ek.				
Workload	Total workload is 136 hours per semester, which consists of 150 m	inutes lectures per				
	week for 14 weeks, 180 minutes structured activities per week, 180	O 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	No prerequisites stated on					
Module objectives/intended learning	After completing this course, the students:					
outcomes	CO 1 Understanding the introduction and working system of mi	crocontrollers				
	CO 2 Understanding and apply microcontroller programming					
	CO 3 Understanding and applying microcontroller interfaces display devices	with sensors and				
	CO 4 Understanding the introduction and working systems of microcomputers					
	CO 5 Understanding the Operating System (OS)					
	CO 6 Understanding and applying microcomputer programm	ning and General				
	Purpose Input Output (GPIO) pin programming.					
Content	a. Introduction to microcontrollers.					
	b. Microcontroller programming.					
	c. Microcontroller interface with sensors.					
	d. Microcontroller interface with display device.e. Introduction to microcomputers.					
	f. Operating System (OS).					
	g. Microcomputer programming.					
	h. General Purpose Innput Output (GPIO) pin programming.					
Study and examination requirements	The final mark will be weighted as follows:	,				
and forms of examination	NO Assessment methods (components, activities)	Weight				
		(percentage)				



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PLO and CO Mapping

Oxford, United Kingdom

	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		٧	٧				
CO 4		٧							
CO 5		٧							
CO 6		٧		٧	٧				