

UIN SUNAN KALIJAGA YOGYAKARTA

FACULTY OF SCIENCE AND TECHNOLOGY

Jl. Marsda Adisucipto Yogyakarta 55281, Telp:+62274519739, Fax:+62274540971, E-mail: fst@uin-suka.ac.id, website: http://saintek.uin-suka.ac.id/

Undergraduate Programme in

Physics

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MODULE HANDBOOK

Module Name	Image Instrumentation System						
Module level, if applicable	Bachelor						
Code, if applicable	FIS425070						
Subtitle, if applicable	-						
Courses, if applicable	Image Instrumentation System (Sistem Instrumentasi Citra)						
Semester(s) in which the module is	6 th (sixth)						
taught							
Person responsible for the module	Chair of Instrumentation Interest Area						
Lecturer(s)	Rochan Rifai, S.Si. , M.Sc.						
Language	Indonesia						
Relation to curriculum	Elective course in the third year (6 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	No prerequisites stated on						
Module objectives/intended learning	After completing this course, the students:						
outcomes	CO 1 Understanding concepts of image instrumentation systems and their application						
	CO 2 Understanding various of imaging methods in image instrumentation systems						
	CO 3 Understanding components of image instrumentation system and how they work						
	CO 4 Understanding methods of image processing to support image instrumentation systems CO 5 Understand methods of image analysis in image instrumentation systems						
	CO 6 Developing an image instrumentation system and its implementation						
Content	Basics of image instrumentation systems						
	Various methods in image instrumentation						
	3. Components of image instrumentation system						
	4. Methods of image processing						
	5. Methods of image analysis6. Application of ilmage instrumentation system						
Study and examination requirements	6. Application of ilmage instrumentation system The final mark will be weighted as follows:						
and forms of examination	NO Assessment methods (components, activities) Weight						
and forms of examination	(percentage)						
	(percentage)						



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	1	Final Examination					35%		
	2	Mid-Term	35% 30%						
	3	Class Activ							
		The final assessment is expressed in the form of a letter value converted from a number value with the following categories:							
	NO	Number Value	Letter Value	NO	Number Value	Letter Value			
	1	≥ 95	А	7	65-69.99	B/C			
	2	90-94.99	A-	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	Е			
Media employed	White	-board, Lcd P	rojector, e	-learning	; (<u>https://dari</u> i	ng.uin-suka.a	<u>c.id/</u>)		
Reading list	 Rafael C Gonzales dan Richarnd E Wood. 2008. Digital Image Processing, 3rd Edition. Pearson Education,Inc. Chris Solomon dan Toby Breckon. 2011. Fundamentals of Digital Image Processing. Jhon Wiley & Sons, Ltd 								
	1.	 Jhon G Webster. 2020. Medical Instrumentation Aplication and Design. Jhon Wiley & Sons, Ltd 							

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						
CO 3		٧	٧						
CO 4		٧	٧	٧					
CO 5		٧	٧	٧					
CO 6		٧	٧	٧	٧				