

UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF SCIENCE EDUCATION

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Bachelor of Education in Science

MODULE HANDBOOK

Module name:	Information and Communication Technology (ICT)					
Module level, if applicable:	Undergraduate					
Code:	IPA 6216					
Sub-heading, if applicable:	-					
Classes, if applicable:	-					
Semester:	2 nd (second)					
Module coordinator:	Sabar Nurohman, M.Pd.					
Lecturer(s):	Widodo Setiyo Wibowo, M.Pd,					
Language:	Bahasa Indonesia					
Classification within the	Compulsory Course					
curriculum:						
Teaching format / class	100 minutes lectures and 120 minutes structured activities per					
hours per week during the	week.					
semester:	Week.					
	Total workload is 90.67 hours per semester which consists of					
Workload:	100 minutes lectures and 120 minutes structured activities,					
	and 120 minutes individual study per week for 16 weeks.					
Credit points:	2 (3 ETCS)					
Prerequisites course(s):	-					
	After accomplishing this course students are able to:					
	CO1. show independency and responsibility in carrying out					
Targeted learning outcomes:						
	colleagues in developing online learning CO3. apply ICT for developing web-based learning, web-					
	based assessment in science learning, and e-commerce.					
Content:	This course will study about ICT and its use in various fields of					
	life, components of computers, network systems, and the					

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	internet, the use of Google Docs, Google Spreadsheets, Google Presentation, and Google Form for various academic needs, the use of PhET Simulations as a virtual experiment in science learning, developing teaching materials and online scoring systems using various applications such as: Edmodo, Google Classroom, and Blogger, use Tracker Video Analysis to analyze digital motion phenomena, developing presentations with Prezi for learning purposes, and utilization of ICT in e-commerce.							
	Attitude assessment is carried out at each meeting by							
	observation and / or self-assessment techniques using the							
	assumption that basically every student has a good attitude.							
	The student is given a value of very good or not good attitude if they show it significantly compared to other students in							
	if they show it significantly compared to other students in general. The result of attitude assessment is not a component							
	of the final grades, but as one of the requirements to pass the							
	course. Stud	dents will pass from this	will pass from this course if at least have a					
Study/exam achievements:	good attitude	э.						
Ctaay, oxam asmoremen	The final mark will be weight as follow:							
	No CO	Assessment Object	Assessment Technique	Weight				
	1 CO1,	a. Individual	Project and	20%				
	CO2	Assignment b. Group Assignment	written test	20%				
	CO3	c. Mid		30%				
		d. Final Exam	Total	30% 100%				
Forms of media:	Board, LCD	Projector, Laptop/Compu		10070				
				new virtus	 al			
	A. Ruth Colvin Clark & Ann Kwinn. (207). The new virtual classroom: evidence-based guidelines for synchronous e-							
	learning. San Francisco: John Wiley & Son							
Literature	B. Abdul kadir& Terra Ch. Triwahyuni. (2003). <i>Pengenalan Teknologi Informasi</i> . Yogyakarta: Penerbit ANDI							
	C. Suharyanto & Sabar Nurohman. (2007). Petunjuk							
Literature:		ito & Sabar Nurohr		Petunju	ık			
Literature.	Praktikun	ito & Sabar Nurohr n TIK. Yogyakarta: FMIP	A UNY `	,				
Literature.	Praktikun D. TIM ICT	ito & Sabar Nurohr	A UNY [`] ekalan <i>Inform</i>	nation an	nd			

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CO1		✓										
CO2											✓	
CO3				✓	✓	✓	✓					