

UNIVERSITAS NEGERI YOGYAKARTA POSTGRADUATE PROGRAM DEPARTMENT OF ELECTRONICS AND INFORMATICS ENGINEERING EDUCATION

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Master of Education in Electronics and Informatics Engineering

MODULE HANDBOOK

Module name:	Kecerdasan Buatan (Artificial Intelligence)				
Module level, if applicable:	Postgraduate				
Code:	PTI 8206				
Sub-heading, if applicable:	-				
Classes, if applicable:	-				
Semester:	2 nd				
Module coordinator:	Dr. Ir. Fatchul Arifin, M.T.				
Lecturer(s):	Dr. Ir. Fatchul Arifin, M.T.				
Language:	English				
Classification within the	Elective Course				
curriculum:					
Teaching format / class	100 minutes lectures and 120 minutes structured activities per				
Hours per week during the	wook				
semester:	WEEK.				
	Total workload is 90,67 hours per semester which consists of				
Workload:	100 minutes lectures, 120 minutes structured activities, and				
	120 minutes self-study per week for 16 weeks				
Creditpoints:	2				
Prerequisites course(s):	-				
Course outcomes:	After taking this course the students have ability to: CO1. Understand the concepts about Artificial Intelligent				
	CO2. Develop Artificial Intelligent Sistem for educational and				
	industrial applications				
	CO3. Provide solutions to contemporary problems based on				
	Artificial Intelligence Systems				
	CO4. Analyze data based on Artificial Intelligent Systems				

Content:	 Artificial Intelligent (AI) course provides basic knowledge of AI and its applications. Broadly speaking, AI material includes: Introduction to AI Definition of AI Kinds of AI applications Conventional AI AI Searching Modern AI (Soft Computing) Coding of Rule: Fuzzy Logic Machine Learning: Neural Network Three basic things consisting of Searching, fuzzy logic, and Machine Learning - Neural Network are basic things that must be understood by students regarding the Artificial Intelligence Concept. Several applications in the educational, industrial, and social world will be described as case studies. 						
	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 general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude. The final mark will be weight as follow:						
Study/oxom	No	СО	Assessment	Assessment	Weight		
achievements:	1	CO1	Object Individual	Written Test,	25%		
	2	CO2	Assignment,	Oral test, Observation	25%		
	3	CO3	Assignment,	portfolio	25%		
	4	CO4	Quiz	Total	25%		
	I otal 100%						
Forms of media:							
	LCD/PIC	ojector, La	ptop, White Board	l, Internet/ E-Lear	ning		

	Decision Support: Sharda, Ramesh, Delen, Dursun, Turban,
	Efraim: 9780135192016 (accessed Oct. 05, 2020).
5	5. T. Taulli, Artificial Intelligence Basics: A Non-Technical
	Introduction, 1st ed. Edition. Apress, 2019.
6	6. Artificial Intelligence with Python: Your complete guide to
	building intelligent apps using Python 3.x, 2nd Edition:
	Artasanchez, Alberto, Joshi, Prateek: 9781839219535:
	(accessed Oct. 05, 2020).
7	7. S. Russell and P. Norvig, Artificial Intelligence: A Modern
	Approach, 4th Edition. Hoboken: Pearson, 2020
8	B. L. Xing, M. L. Giger, and J. K. Min, Eds., Artificial Intelligence
	in Medicine: Technical Basis and Clinical Applications, 1st
	Edition. Academic Press, 2020

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CO1		~								
CO2					~					
CO3							√			
CO4								✓		