

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:	Data Mining					
Module level, if applicable:	Postgraduate					
Code:	PTI 8223					
Sub-heading, if applicable:	-					
Classes, if applicable:	-					
Semester:	2 rd					
Module coordinator:	Handaru Jati, M.M., M.T., Ph.D.					
Lecturer(s):	Handaru Jati, M.M., M.T., Ph.D.					
Language:	Bahasa Indonesia					
Classification within the	Elective Course					
curriculum:						
Teaching format / class	100 minutes lectures and 120 minutes structured activities per					
Hours per week during the	week.					
semester:	WOOK.					
	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):	-					
	After taking this course the students have ability to: CO1. Student be able to evaluate and implement a wide range of emerging and newly adopted methodologies and					
Course outcomes:	technologies to facilitate the knowledge discovery					
	CO2. Student be able to evaluate and implement a wide range of					
	emerging and newly adopted methodologies and					
	technologies to facilitate the knowledge discovery					
	CO3. Student be able to discover and measure interesting					
	ooo. olducht be able to discover and measure interesting					

		10 m = 1	a different literal f	databassa			
	patterns from different kind of databases						
	CO4. S	tudent b	e able Characte	erize and discrir	ninate dat	a	
	summarization forms and determine data						
	fun	ctionalitie	es				
	Student	will be at	ole to design and	implement of a	data minin	g	
	application using sample, realistic data						
	tools student will be able evaluate and select appropriate data minin algorithms and apply, and interpret and report the output appropriately						
	student will be able evaluate and select appropriate data						
	-		apply, and inter	pret and report	the outp	ut	
Content:	appropriately						
	Summat	ive asses	sments - tests, qu	izzes, and other g	graded coui	rse	
			used to measure end of a unit or				
			end of a unit of e assessment incl				
	individua	l student	grades, and forma	tive assessmentâ	i€ [—] in the fo	rm	
			r by which stude relative performan				
			to-face in office h	•	•		
	assignments, through rubrics, and through emails. The final m						
	will be weight as follow:						
Study/exam	No	СО	Assessment	Assessment	Weight		
achievements:	1	001	Object	Technique	E00/		
	1	CO1 - CO4	Presentation of scientific	Assignment	50%		
			paper				
1	2	CO5 &	Scientific		50%		
	2	CO5 & CO6		Total			
	2		Scientific	Total	50% 100%		
Forms of media:		CO6	Scientific				
Forms of media:	LCD Pro	CO6 jector, La Mining: P	Scientific paper ptop / Computer, ractical Machine L	White Board earning. Tools ar	100%		
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Forms of media: Literature:	LCD Pro 1. Data Techr 2. Data	CO6 jector, La Mining: P hiques, Se Science fi	Scientific paper ptop / Computer, ractical Machine L econd Edition. Ian rom Scratch. by Jo	White Board earning. Tools ar H. Witten and Eil pel Grus. Release	100% nd pe Frank.		
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	Methods, and Algorithms. Wiley-IEEE Press.
6.	Sengupta, N., & Sil, J. 2020. Intrusion Detection: A Data
	Mining Approach. Springer.
7.	Rutkowski, L., Jaworski, M., & Duda, P. 2020. Stream Data
	Mining: Algorithms and Their Probabilistic Properties.
	Springer International Publishing.
8.	Yang, X.S., & He, X.S. 2020. Nature-Inspired Computation in
	Data Mining and Machine Learning. Springer International
	Publishing.
9.	Roger-Salazar, J. 2020. Advanced Data Science and
	Analytics with Python. CRC Press.

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CO1				✓	✓	✓			✓	
CO2				✓	√	✓			✓	
CO3				✓	✓	✓			✓	
CO4				✓	✓	✓			✓	
CO5				✓	✓	✓			✓	
CO6				✓	√	✓			✓	