MINISTRY OF EDUCATION, CULTURE, RESEARCH, AND TECHNOLOGY UNIVERSITAS SRIWIJAYA

FACULTY OF TEACHER TRAINING AND EDUCATION MATHEMATICS EDUCATION STUDY PROGRAM

Jl. Raya Palembang – Prabumulih Km.32, Indralaya Ogan Ilir 30662 Website: Fkip.unsri.ac.id

Doctoral Program in Mathematics Education

MODULE HANDBOOK

:	Topic in discrete mathematics/ GMA72010				
:	Doctor				
:	GMA72010				
:	-				
:	-				
:	2 nd (second) / even				
:	Dr. Hapizah, S.Pd., M.T.				
:	Dr. Hapizah, S.Pd., M.T.				
:	Bahasa Indonesia and English				
:	Study Program Elective Course				
:	Teaching format: lectures, tutorial assignment, and individual				
	study.				
	2 x 300 minutes = 600 minutes = 10 hours lectures				
	14 weeks per semester consisting of:				
•	➤ 1 hour lecture (1 x 50 minutes) per week,				
	> 2 hours assignments (2 x 50 minutes) per week,				
	➤ 2 hours individual study (2 x 75 minutes) per week,				
	Total workload: 14x2x300 minutes=8,400 minutes= 5.6 ECTS*				
:	2 (5.6 ECTS)				
:	-				
:	After taking this course, students should be able to:				
	CO-1 : able to describe the concept of discrete mathematics				
	according to a scientific and critical attitude.				
	CO-2 : able to carry out enumeration of combinatorial objects in				
	the language of discrete states and/or discrete time with				
	effective and communicative scientific arguments.				
	CO-3 : able to apply combinatorial and graph approaches to				
	design problem solving from the social and natural sciences.				
	The study of discrete mathematical concepts mainly discusses				
•	discrete dynamical systems, algorithms, combinatorics, and				
	graph theory with an emphasis on algorithm complexity,				
	existence and optimization issues in graph theory and its				
	algorithms which support his/her research.				

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Study/ exam achievement	score consists assignment of the second of the model of the second of th	 Students are considered competent and pass if the final score calculated from the score of midterm exam, assignments, participation, and final exam is at least 56 or C. It is expected that students attend 80% of the total meetings in the modules. 35% midterm exam + 15% assignments + 10% participation + 40% final exam. Final index is defined as follow: The total score is converted into a qualitative score, 					
	Total Score	e Grade	Description				
	86 – 100	A	Excellent				
	71 – 85.99	В	Good				
	56 – 70.99	C	Fair				
	41 – 55.99	D	Bad				
	0-40.99	Е	Worse				
Forms of media	: Laptop and L	CD projectors					
Literature	 1. Budayasa Surabaya 2. Bollobas, Berlin: Sp. 3. Chartrand digraphs. 4. Chen, W. in Networks 5. Diestel, R. New Yorl 7. Gross, J. application 8. Tucker, A. Wiley & Sp. Wilf, H. 	 Laptop and LCD projectors Budayasa, K. (2008). Teori graph dan aplikasinya. Surabaya: University Press Unesa Bollobas, B. (2002). Modern graph theory, corrected Ed. Berlin: Springer Verlag Chartrand, G. & Lesniak, L. (1996).Graphs and digraphs.London: Chapman Hall/CRC. Chen, W. K. (2003). Net Theory and its applications-flows in Networks, London: Imperial College Press. Diestel, R. (2010). Graph theory. Springer Verlag. Harary, F. & Palmer, E. M. (1973).Graphical enumeration. New York: Academic Press, Inc. Gross, J. L., & Yellen, J. (2005). Graph theory and its applications. CRC Press. Tucker, A. (2012). Applied combinatorics. New York: John Wiley & Sons, Inc. Wilf, H. S. (1994).Generating functionology.London: Academic Press, Inc. 					
Note	: *Total hours	*Total hours per 1 credit in 1 semester = {(1 credit x 300 minutes x 14 weeks)/60 minutes} = 70 hours.					

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Each ECTS equals 25 hours therefore 1 credit in 1 semester
equals 2.8 ECTS.

PLO and CO Mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9
CO1					/				
CO2					~				
CO3					V				