MODULE HANDBOOK

Module Name:	Transformational Geometry				
Module Level:	Sarjana (S-1) / Bachelor				
Abbreviation, if	8420203067				
applicable:					
Sub-heading, if	-				
applicable:					
Course included in the	-				
module, if applicable:					
Semester/term:	6/ Third year				
Module Coordinator(s):	Prof. Dr. Mega Teguh Budiarto, M.Pd				
Lecturer(s):	Dr. Susanah, M.Pd				
	Rudianto Artiono, M.Si				
	Evangelista LWP, M.Sc.				
T	T 1 .				
Language:	Indonesia				
Classification within	Compulsory course/ elective studies				
the curriculum:	Tasshing formest lastumes tutorial assignment and individual				
Teaching format/class hours per week during	Teaching format: lectures, tutorial assignment, and individual				
the semester	study. 3 x 170 minutes = 510 minutes = 8.5 hours lectures				
Workload:	15 weeks per semester consisting of:				
Workloau.					
	> 3 hours lectures (3 x 50 minutes) per week,				
	➤ 3 hours tutorial assignments (3 x 60 minutes) per week,				
	➤ 3 hours individual study (3 x 60 minutes) per week,				
	Total workload: $14x3x170$ minutes = 7,140 minutes = 4.76				
	ECTS*				
Credit Point:	3				
Requirements:	Geometry 8420203064				
	Analytical Geometry 8420203065				
Learning Goals:	Knowledge (KNO-1)				
	CLO-1 : Demonstrate knowledge and insight into the definition of				
	transformation, isometry, and its properties.				
	CLO-2 : Demonstrate knowledge and insight about reflection, half				
	turn, shear, rotation, shear mirroring, similarity,				
	displacement and strain, inversion and their properties.				
	Skill (SKI-2)				
	CLO-3: Solve problems related to transformational geometry				

Content:	Transfo	rmation,	Reflection, Half Rota	ation, Translation, R	otation,			
	Shear R	Shear Reflection, Similarity, Dilation, Shearing And Stretchin						
	and Inv	and Inversion						
Study/exam	> Stu	> Students are considered competent and pass if the final score						
achievements		calculated from the score of midterm exam, assignments,						
	_	participation, and final exam is at least 55 or C.						
		7 2 3342 50 510 15 0442 4340 045						
		> 20% midterm exam + 30% assignments + 20% participation +						
		30% final exam						
	> Fin	Final index is defined as follow:						
		Index	Converted Score	Score Range				
		A	4.00	85≤ <i>A</i> ≤100				
		A-	3.75	80≤ <i>A</i> − <85				
		B+	3.50	75≤ <i>B</i> + <80				
		В	3.00	70≤B < 75				
		В-	2.75	65≤ <i>B</i> − <70				
		C+	2.50	60≤ <i>C</i> + <65				
		С	2.00	55≤ <i>C</i> <60				
		D	1.00	4 0≤ <i>D</i> <55				
		Е	0.00	0≤ <i>E</i> <40				
Forms of Media	dia Slides and LCD projectors, whiteboard							
Literature	[1] Bu	[1] Budiarto, M.T. 2010. Geometri Transformasi (Cetakan						
	Ke	Kedua). Surabaya: UNESA University Press Anggota IKAPI						
	[2] Eco	[2] Eccles, Frank R, 1971, An Introduction to Transformational						
	Ge	Geometry, California, Addison Wesley Publishing Company						
		[3] Martin, George F, 1980, Transformational Geometry an						
		Introduction to Symmetry, New York: Springer-Verlag						
Note								
Note		*Total hours per 1 credit in 1 semester={(1 credit x 170 minutes x 14 weeks)/60 minutes}=39,67 hours.						
		Each ECTS equals with 25 hours therefore 1 credit in 1 semester						
		equals 1,59 ECTS.						