

MINISTRY OF EDUCATION, CULTURE, RESEARCH, AND TECHNOLOGY UNIVERSITAS NEGERI SURABAYA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES Ketintang Campus, D-1 Building, Surabaya 60231 +6231-8296427 Website: www.fmipa.unesa.ac.id, email: info_fmipa@unesa.ac.id

Master Program of Mathematics Education

Module Handbook

Module Name:	Development of Instructional Media			
Module Level:	Master (S-2)			
Abbreviation, if				
applicable:				
Sub-heading, if	-			
applicable:				
Course included in the	-			
module, if applicable:				
Semester/term:	2 nd / First year			
Module	Dr Siti Khabibah MPd			
Coordinator(s):				
Lecturer(s):	1. Dr. Siti Khabibah, M.Pd.			
	2. Dr. Janet T Manoy, M.Pd.			
	3. Dr. Atik Wintarti, M.Kom.			
	4. Dr. Elly M Iman, M.Kom.			
Language:	Indonesian			
Classification within	Compulsory course / elective studies			
the curriculum:	Computsory course / elective studies			
Teaching format/class	Teaching format: lectures, tutorial assignment, and individual			
hours per week during	study 2×240 minutes - 480 minutes - 8 hours lectures			
the semester				
Workload:	15 weeks per semester consisting of:			
	• 1 hour lecture $(1 \times 50 \text{ minutes})$ per week,			
	• 2 hours assignments (2 × 45 minutes) per week,			
	• 2 hours individual study $(2 \times 50 \text{ minutes})$ per week,			
	Total workload: $14 \times 2 \times 240$ minutes = 6,720 minutes = 4.48 ECTS*			
Credit Point:	2			
Requirements:	N/A			





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Learning Goals :	Knowledge (KNO-2)				
	CLO-1: able to understand the concepts, types/classifications, functions,				
	and the basics of developing instructional media				
	CLO-2: able to integrate Information and Communication Technology				
	(ICT) in learning mathematics as a source and learning media and using				
	it to support the implementation of learning				
	Skill (SKI-2)				
	CLO-3: able to design, select and produce learning media by using the				
	surrounding environment (contextual) and/or ICT-based				
	Social (SOC-1)				
	CLO-4: ab	ole to respo	nsible for developin	g learning media ac	cording to
	mathemati	cal topics t	hat are practical, eff	ficient, and safe for s	students
Content:	Studying and reviewing concepts, types/classifications, functions, basics of media development, as well as designing, selecting, and producing instructional media by using the surrounding environment (contextual) and ICT. This lecture will be carried out through theoretical presentations, project assignments, presentations and discussions.				
Study/exam	 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.				
	• Final score is calculated as follows:				
	20% midterm exam + 30% assignments + 20% participation + 30%				
	final exam				
	• Final index is defined as follow:				
		Index	Converted Score	Score Range	
		A	4.00	$85 \le A \le 100$	
		A-	3.75	$80 \le A - < 85$	
		B+	3.50	$75 \le B + < 80$	
		B	3.00	$7/0 \le B < 7/5$	
		B-	2.75	$65 \le B \le 70$	
		C+	2.50	$60 \le C + < 65$	
			2.00	$55 \le C \le 60$	
		р Б	0.00	$40 \ge D \le 33$ $0 \le E \le 40$	
Media employed	Slides and	L I CD proje	ctors white board	$V \ge L > 4V$	
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keading list	[1]. Kurik	ulum seko	lah		





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	[2]. Buku matematika sekolah, baik buku siswa maupun buku guru			
	[3]. Ivers, K. S. & Barron, A. E. 2009. Multimedia Projects in Education			
	Designing, Producing, and Assessing. Libraries Unlimited.			
	[4]. Gredler, M. E. 2009. Learning and Instruction: Theory into Practice.			
	Merill Pearson Education, Inc.			
	[5]. Khabibah, S. 2021. Pengembangan Perangkat Pembelajaran			
	Matematika dengan Pendekatan Saintifik Berbantuan Software			
	Geogebra untuk Materi Transformasi Kelas VII Siswa SMP.			
	[6]. Berbagai jurnal pendidikan terbitan baik luar negeri maupun dalam negeri			
	[7]. Lang-Raad, N. D. & Marzano, R. J. 2019. The New Art and Science			
	of Teaching Mathematics. Solution Tree Press.			
Note	*Total hours per 1 credit in 1 semester = {(1 credit \times 240 minutes \times 14			
	weeks)/60 minutes} = 56 hours.			
	Each ECTS equals 25 hours, so 1 credit in 1 semester is equivalent to			
	2.24 ECTS.			
Last amendment	January 2023			

