	Document Code

UNIVERSITAS NEGERI SURABAYA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
UNDERGRADUATE PROGRAMME OF MATHEMATICS EDUCATION

SEMESTER LEARNING PLAN

Name of Module		Code	Module Cluster	Credits		Semester	Date of Preparation
Learning Media		8420202121	Mathematics Education	**T = 3**	**P = 0**	5	August 31st, 2020th
Authorization		**Lesson Plan Creator**	**Module Coordinator**			**Head of Prodi**	
		Dr. Janet Trineke Manoy, M.Pd Dr. Siti Khabibah, M.Pd Dr. Pradnyo Wijayanti, M.Pd				**Rooselyna Ekawati, M.Sc., Ph.D.**	

Learning Outcomes	**Programme Learning Outcomes (PLO)**	
	KNO-2	Able to demonstrate pedagogical knowledge in designing, implementing and evaluating Mathematics' learning
	SKI-1	Able to design, implement and evaluate mathematics' teaching and learning by using ICT
	COM-2	Able to make decisions based on data/information in solving task that becomes students' responsibility and evaluates the work that has been done
	SOC-1	Able to demonstrate scientific attitude, critical and innovative in mathematics teaching and learning and professional task
	Course Learning Achievement (CLO)	
	KNO-2	
	CLO-1	Able to explain theories related to types/ classifications, functions, and basics of media development that utilize the surrounding environment (contextual) or ICT-based in learning to support mathematics learning in schools.
	SKI-1	
	CLO-2	Able to apply types / classifications, functions, and basics of media development in designing media suitable for learning mathematics
	COM-2	
	CLO-3	Able to develop manual or ICT-based media in mathematics learning based on the results of the compiled design
	SOC-1	
	CLO-4	Able to analyze the advantages and disadvantages of manual or ICT-based media in mathematics learning

Brief Description of MK	This course discuss about assessing the meaning, type / classification, function, basics of media development, as well as being able to select, design, and produce learning media by utilizing the surrounding environment (contextual) and ICT through group / individual task-based learning, presentations, and IT.						
Study Material: Learning Materials	learning media, characteristics of learning media, types and characteristics of learning media, design and concept of learning media, and ICT-based learning media						
References	**Primary References:**						
	[1] Mathematics books, both student books and teacher's books						
	Supporting References :						
	[2] Fenrich, P.(1997). *Practical Guidelines For Creating Instructional Multimedia*Application. USA:Harcourt Brace College Publisher.						
	[3] Heinich, R., Molenda. (1999). *Instructional Media and Technologies forLearning. USA: Prentice Hall*.						
	[4] Journal of Education, both abroad and domestically						
	[5] School curriculum						
	[6] Robert Heinich Merril, 2002 *Instruction Media and Tecnologies for learning*						
	[7] Smaldino, S.E., Deborah L.L., and James D.R., 2011. *Instructional Technology and Media for Learning: Learning Technology and Media for Learning.* Jakarta: Kencana.						
Lecturers	Dr. Janet Trineke Manoy, M.Pd Dr. Siti Khabibah, M.Pd Dr. Pradnyo Wijayanti, M.Pd						
Prerequisite Modules	Basics of Education						

Week	Final abilities of each stage of learning	Assessment		Teaching Methodology		Learning Materials	Weight (%)
		Indicators	Assessment Form	Offline	Online		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Understanding media, as well as the introduction of learning media (CLO-1)	Explaining the meaning of learning media and the introduction of learning media	Assignment	1. Ekspository 2. Discussion		Description of learning media courses and introduction of learning media [1-7]	

No	Ability to be achieved (CLO)	Indicator	Assessment Form	Learning Method (Offline)	Learning Method (Online)	Learning Materials [Reference]	
2	Understanding the definition and characteristics of learning media (CLO-1)	Explaining the definition and characteristics of learning media	Assignment	1. Discussion by displaying power point slides 2. Videos about learning media		Understanding and characteristics of learning media [1-7] .	
3	Understanding the types and properties of learning media (CLO-1)	Explaining the types and properties of learning media	Assignment	1. Power point slides Flash and video media about the type and nature of learning media		Types and properties of learning media [1-7]	
4	Understand examples of learning media (CLO-1)	Explaining examples of learning media	Assignment	1. Power point slides 2. Flash media 3. Videos about learning media examples		Examples of learning media [1-7]	
5	Able to design and create good learning media concepts (CLO-2)	Designing and creating good learning media concepts	Assignment and product	1. Power point slides 2. Manual learning media package		Good design and reconsistion of manual learning media [1-7]	
6	Able to design manual learning media (CLO-3)	Present designed manual learning media.	Assignment and product	1. Power point slides 2. Manual learning media package		Media manual learning [1-7]	
7	1. Mastering the design and contouring of good manual learning media (CLO-3) 2. Analyze the advantages and disadvantages of a manual learning medium (CLO-4)	Explaining the design and contouring of good manual learning media	Assignment and product		1. Slides that come with sound 2. Online discussions between students and lecturers/ Teleconferencing 3. Draft design of self-developed manual learning media 4. Video learning about manual learning media	Media manual learning [1-7]	
8	Mid exam						
9	1. Mastering the design and contouring of good	Explaining the design and contouring of	Assignment and product		1. Interactive Slides 2. Online discussions between students and	Media manual learning [1-7]	

No	Sub-CLO	Indicator	Assessment		Learning Activities	Material	
	manual learning media (CLO-3) 2. Analyze the advantages and disadvantages of a manual learning medium (CLO-4)	good manual learning media			lecturers/ Teleconferencing 3. Draft design of self-developed manual learning media 4. Video learning about manual learning media		
10	1. Mastering the design and contouring of good manual learning media (CLO-3) 2. Analyze the advantages and disadvantages of a manual learning medium (CLO-4)	Explaining the design and contouring of good manual learning media	Assignment and product		1. Slides that come with sound 2. Online discussions between students and lecturers/ Teleconferencing 3. Draft design of self-developed manual learning media 4. Video learning about manual learning media	Media manual learning [1-7]	
11	1. Able to design good ICT-based learning media (CLO-3) 2. Analyze the advantages and disadvantages of an ICT-based learning medium (CLO-4)	Presenting good ICT-based learning media	Assignment and product		1. Power point slides 2. ICT-based learning media packages	ICT-based learning media	
12	1. Able to design good ICT-based learning media (CLO-3) 2. Analyze the advantages and disadvantages of an ICT-based learning medium (CLO-4)	Presenting good ICT-based learning media	Assignment and product		1. Power point slides 2. ICT-based learning media packages	ICT-based learning media	

13	1. Able to design good ICT-based learning media (CLO-3) 2. Analyze the advantages and disadvantages of an ICT-based learning medium (CLO-4)	Presenting good ICT-based learning media	Assignment and product		1. Slides that come with sound 2. Online discussions between students and lecturers/ Teleconferencing 3. Self-developed ICT-based learning media draft 4. Learning video tentang ICT-based learning media	ICT-based learning media	
14	1. Able to design good ICT-based learning media (CLO-3) 2. Analyze the advantages and disadvantages of an ICT-based learning medium (CLO-4)	Presenting good ICT-based learning media	Assignment and product		1. Slides that come with sound 2. Online discussions between students and lecturers/ Teleconferencing 3. Self-developed ICT-based learning media draft 4. Learning video about ICT-based learning media	ICT-based learning media	
15	1. Able to design good ICT-based learning media (CLO-3) 2. Analyze the advantages and disadvantages of an ICT-based learning medium (CLO-4)	Presenting good ICT-based learning media	Assignment and product		1. Slides that come with sound 2. Online discussions between students and lecturers/ Teleconferencing 3. Self-developed ICT-based learning media draft 4. Learning video tentang ICT-based learning media	ICT-based learning media	
16	Final Exam						

Description:

1. **Assessment Weights: 30% Assignment, 20% Participation, 30% Midterm test, and 30% Final Exam**