

## Universitas Negeri Surabaya Faculty of Education, Early Childhood Education Masters Study Program

Document Code

## SEMESTER LEARNING PLAN

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Courses		CODE			Co	Course Family		(	Credit Weight			SI	EMES	TER	Con Date	npilation e	n			
AUD Science and Mathematics Development		8610702014			Co Pr	ompul ogran	Ilsory Study m Subjects		, -	T=1	P=1	ECT	S=4.48	3	2		Feb 2023	ruary 16 3	i,	
AUTHORIZATION		SP Developer			Cou	Course Cluster Coordinator				St Co	Study Program Coordinator									
			Dr. Nurul Khotimah, S.Pd.				M.Pd.		Dr. Nurul Khotimah, S.Pd., M.Pd.				Dr. Ruqoyyah Fitri, S.Ag., M.Pd.							
Learning model	Project Based Learning																			
Program	PLO study program which is charged to the course																			
Learning Outcomes (PLO)	PLO-7 Synthesize theories of early childhood education and learning and conduct children's research with various innovative approaches: (Special Skills) (profile 1):																			
( )	Program Objectives (PO)																			
	PO - 1	Crea and	ate a backgroui early childhood	nd de d edu	escrij Icatio	ption on pra	of the	e imp s	ortanc	ce of	f scie	ence a	ind ma	athema	atics	educa	tion in	the c	urriculu	m
	PLO-PO Matri	x	-																	
			PO		P	10-7		1												
			F0-1					J												
										_										
	-O Matrix at the end of each learning stage (Sub-PO)																			
			P.0		_	_		_		_	-	wee	к							
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
		F	90-1																	
Short Course Description	Science and marcas must be subject matter mathematics ar aspects of dev activities that ar content materia This course will theoretical com elaborate on va play in various r	ather view pers e fiel elopr e live l (sci l pro cepts rious real li	natics are two red from three pective or the ds that are use nent. In the a e and exist in c ence and math vide a number about scienco science and m fe, meaningful	aspe e pers e cor ed as ctivity hildre e ma of c e an nathe and	ects spec vehi vehi y pel en's tics a comp d ma emati enjoy	of lea tives of t icles rspec daily as su eten athen cs lea yable	arning , nam he le for de ctive ( lives. bject cies r natics arning	con ely t arnin velop scier In th matte elate elate des exts.	tent in he de g ma bing a nce al e third er) of d to s catior igns fo	n the evelo spectric spectric nd r d pe learn stude n in or ea	e edu opme al. Fi cts o math erspe ning ents' early arly o	acatio ent per rom a f cogr emati ctive, activir abilit y chil childh	n curr erspec a deventive of cs as scientites in y to u dhood bood by	iculum ctive, the elopme develop activit ce and early o inderst I. Apar y using	for ental pmer y), b mat child and, t fro vari	early of ctivity perspont and poth fi hemat hood of analy m tha ous ty	childho persp pective variou elds a ics ca educat ze, us ze, us t, stuo pes ar	bod. T ective as oth are ac n be v tion in se and dents nd pro	hese tw e and the er relate tivities ( viewed a stitution d develo can als cesses	/o ie id or as is. pp of
References	Main :																			
	1. Arthur, Limited edition. Jersey: Child. I through and Sc for Earl	L., e . Ber New Pea New n Prin ience y Chi	t al. (2001). Pr htzen, Warren y York:Thomas rson Educatior York: The Free nary Grade. Bo e, New York: D ildhood. Washi	rogra R. (2 Deln n, Ind e Pre ostor elma ingtor	ummi 2005j nar L c. Be ess. I n: Pe n: Pe n DC	ng al .See ennet Brew arson blishe : Tea	nd Pla ing Y ing. B t., Wi er, Jc n Edu er. Dc aching	annin oung eaty, lliam, An., catio odge, g Stra	g in E Chilc Janic Ches (200 n, Inc Diane tegies	Early dren ster 7). I c Ch e Tri s Inc	y Ch : A C (201 E. F Introd arles ister. c.	ildhoc Guide LO). O Finn a ductio sworth , Laui	nd Set to Ob bservi nd Jo n to E n, Ros ra J.C	tings. serving ing De hn T.E Early C alind a olker (	2nd g an velop . Cri hildh und k 1999	ed. Ha d Rec oment bb., (2 hood E (aren I). The	arcour ording of You 2007). Educat K. Lin e Crea	t Aust Beha Ing Cl The ion. F d, (19 tive C	ralia: Pt avior. 5tl hild. Nev Educate Preschoo 195) Mat urricuur	່ y v d ol th n
	Supporters:																			

Suppor	ting Dr. Rugoyya	h Fitri, S.Ag., M.Pc	1.					
Veek-		otimah, S.Pd., M.P	d. valuation	H Lea Stude [ E	elp Learning, rning methods, ent Assignments, stimated time]	Learning materials [ References	Assessment	
	(Sub-PO)	Indicator	Criteria & Form	Offline ( offline )	Online ( <i>online</i> )	. 1		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
1	1. Summarize the position of science and mathematics in the PAUD unit curriculum 2. Describe the urgency of science and mathematics education 3. Ma basic concepts and terminology in AUD science and mathematic education	ар / :s	Criteria: Quiz Form of Assessment : Project Results Assessment / Product Assessment	Discussion, Cooperative Learning.	Blended Learning Asynchronous learning at Vinesa		50%	
2		Mhsw created a concept map of the urgency, position and terminology of AUD science and mathematics education in the PAUD curriculum	Form of Assessment : Project Results Assessment / Product Assessment	Discussion, Cooperative Learning.	Blended Learning Asynchronous learning at Vinesa	Material: The position of Science and Mathematics in the PAUD curriculum <b>Reference:</b> Arthur, L., et al. (2001). Programming and Planning in Early Childhood Settings. 2nd ed. Harcourt Australia: Pty Limited. Bentzen, Warren R. (2005). Seeing Young Children: A Guide to Observing and Recording Behavior. 5th edition. New York: Thomas Delmar Learning. Beaty, Janice J. (2010). Observing Development of Young Children. New Jersey: Pearson Education, Inc. Bennett., William, Chester E. Finn and John TE Cribb., (2007). The Educated Child. New York: The Free Press. Brewer, Jo An., (2007). Introduction to Early Childhood Education. Preschool	50%	

		through Primary Grade. Boston: Pearson Education, Inc. Charlesworth, Rosalind and Karen K. Lind, (1995) Mathematics and Science, New York: Delmar Publisher. Dodge, Diane Trister., Laura J. Colker (1999). The Creative Curriculum for Early Childhood. Washington DC: Teaching Strategies Inc.
3		0%
4		Material: The position of Science and Mathematics in the PAUD curriculum Reference: Arthur, L., et al. (2001). Programming and Planning in Early Childhood Settings. 2nd ed. Harcourt Australia: Pty Limited. Bentzen, Warren R. (2005). Seeing Young Children: A Guide to Observing and Recording Behavior. 5th edition. New York: Thomas Delmar Learning. Beaty, Janice J. (2010). Observing Development of Young Children. New Jersey: Pearson Education, Inc. Bennett., William, Chester E. Finn and John TE Cribb., (2007). The Educated Child. New York: The Free Press. Brewer, Jo An., (2007). Introduction50%

			to Early Childhood Education. Preschool through Primary Grade. Boston: Pearson Education, Inc. Charlesworth, Rosalind and Karen K. Lind, (1995) Mathematics and Science, New York: Delmar Publisher. Dodge, Diane Trister., Laura J. Colker (1999). The Creative Curriculum for Early Childhood. Washington DC: Teaching Strategies Inc.	
5				0%
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11				0%
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15				0%
16				0%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Project Results Assessment / Product Assessment	100%
		100%

Notes

- Learning Outcomes of Study Program Graduates (PLO Study Program) are the abilities possessed by each Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study program obtained through the learning process.
- 2. The PLO imposed on courses are several learning outcomes of study program graduates (CPL-Study Program) which are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and knowledge.

- 3. Program Objectives (PO) are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- 4. Subject Sub-PO (Sub-PO) is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
- 5. Indicators for assessing ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
- 6. Assessment Criteria are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
- Forms of assessment: test and non-test.
  Forms of learning: Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop
- Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning. 9. Learning Methods: Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other
- equivalent methods. 10. Learning materials are details or descriptions of study materials which can be presented in the form of several
- main points and sub-topics. 11. The assessment weight is the percentage of assessment of each sub-PO achievement whose size is
- proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.