

Document Code

SEMESTER LEARNING PLAN

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Courses			CODE			С	Course Family		mily		Cre	Credit Weight			SEME	STER	Cor	npilat e	ion	
Knowledge and Praxis of Teacher Education and Prospective Teachers (Knowledge and Praxis of in- service and pre-service Teachers)		8400202051					T=2	2 P:	=0	ECTS=5	i.04	:	2	July	17, 2	024				
AUTHORIZATION			SP Developer					Course Cluster Coordinator					or	Study Program Coordinator						
													Prof. Dr. Tatag Yuli Eko Siswono, S.Pd., M.Pd.							
Learning model	Project Based	Learn	ing																	
Program	PLO study pr	ogran	n that is cha	rged	l to 1	he c	our	se												
Learning Outcomes	Program Obje	ective	s (PO)																	
(PLO)	PO - 1	Desc a scie	ribe the conce entific and crit	ept o	f kno	wled de; (S	ge a S2, P	nd pr 1)	actio	ce of t	eache	er an	nd pi	rospectiv	e tea	acher e	ducation	on ac	cordin	g to
	PO - 2	Analy effec	Analyzing the concepts of knowledge and practice of teacher and prospective teacher education with effective and communicative arguments; (KU2, P1)																	
	PO - 3	Apply math	ying the conc ematics educa	ept c	of kn prob	owle lems	dge (KK	and 1, P1	prac .)	tice o	f tead	her	and	d prospe	ctive	teach	er edu	catior	to so	olve
	PLO-PO Matri	ix																		
			P.O PO-1 PO-2 PO-3																	
	PO Matrix at t	he en	d of each le	arni	ng s	tage	(Su	b-PC	D)											
			P.O Week																	
				1	2	3	4	5	6	7	8	9	10) 11	12	13	14	15	16	
		Р	O-1																	
		Р	O-2																	
		Р	O-3																	
										ı										
Short Course Description	Assessment of teacher knowle beliefs, pedago and college levexplanation of can assessment semester assess	dge, p gical a vels, a concep t syste	pedagogical co and didactic kr and developm ots and princip em including	onter nowle lent oles,	nt kne edge of te assig	owled of te ache Inme	dge, ache r pro nts a	techr rs an ofessi ınd d	nolog Id pr iona iscu	gical o ospec lism a ssions	conter ctive to at sch s with	nt kn each nool stud	nowled ners, and dents	edge, m , learnino l college s, as wel	ather des leve l as	matical sign and els. Le presen	literac d evalu ctures tations	y cor lation begir using	npeter at sch with ICT	nce, nool an with
References	Main :														-					

- 1. Pengkajian pengetahuan dan praksis pendidikan guru dan calon guru yang meliputi konsep pengetahuan guru, pedagogical content knowledge, technological content knowledge, kompetensi literasi matematika, keyakinan, pedagogi dan didaktis pengetahuan guru dan calon guru, perancangan pembelajaran dan evaluasi di tingkat sekolah dan perguruan tinggi, dan pengembangan profesionalisme guru yang tingkat sekolah dan perguruan tinggi. Perkuliahan diawali dengan paparan konsep dan prinsip, penugasan dan diskusi dengan mahasiswa, serta presentasi dengan pemanfaatan TIKdengan sistem penilaian meliputi penugasan (30%), partisipasi (20%), penilaian tengah semester (20%) dan penilaian akhir semester (30%).
- 2. Cochran-Smith, M., & Lytle, S. L. (1999). Chapter 8: Relationships of knowledge and practice: Teacher learning in communities. Review of research in education, 24(1), 249-305.
- 3. Sullivan, P., & Wood, T. (2008). The International Handbook of Mathematics Teachers Education: Knowledge and beliefs in mathematics teaching and teaching development. Vol 1. Sense Publishers
- 4. Sullivan, P., & Wood, T. (2008). The International Handbook of Mathematics Teachers Education: Knowledge and beliefs in mathematics teaching and teaching development. Vol 1. Sense Publishers
- 5. Krainer, K., & Wood (2008). The International Handbook of Mathematics Teachers Education: Participants in Mathematics Teacher Education. Vol 3. Sense Publishers
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- 7. Kaur, B., & Dindyal, J. (Eds.). (2010). Mathematical applications and modelling: Yearbook 2010. World Scientific.
- J Verloop, N., Van Driel, J., & Meijer, P. (2001). Teacher knowledge and the knowledge base of teaching. International journal of educational research, 35(5), 441-461.

Supporters:

- 1. Hoy, A. W., Davis, H., & Pape, S. J. (2006). Teacher knowledge and beliefs
- 2. Mishra, P., & Koehler, M. J. (2006). Technological pedagogical content knowledge: A framework for teacher knowledge. Teachers college record, 108(6), 1017-1054.
- 3.] Thames, M. H., & Ball, D. L. (2010). What math knowledge does teaching require?. Teaching Children Mathematics, 17(4), 220-229
- 4. Spruce, R., & Bol, L. (2015). Teacher beliefs, knowledge, and practice of selfregulated learning. Metacognition and Learning, 10(2), 245-277

Supporting lecturer

Dr. Hj. Masriyah, M.Pd. Dr. Endah Budi Rahaju, M.Pd. Prof. Rooselyna Ekawati, Ph.D.

Final abilities of each learning stage		Ev	aluation	Lear Stude	elp Learning, ning methods, nt Assignments, stimated time]	Learning materials [References	Assessment Weight (%)	
	(Sub-PO)	Indicator	Criteria & Form	Offline (offline)	Online (online)]		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
1	Sub-CPMK-1.1 Able to explain the concept of Teacher Education: Individual Mathematics Teacher as learner	Able to describe the concept of Teacher Education: Individual Mathematics Teacher as learner	Criteria: Independent and Group Assignments Form of Assessment: Participatory Activities, Project Results Assessment / Product Assessment	Classroom Activities: Collaborative Reciprocity; class discussion 2 x 50			5%	
2	Sub-CPMK2 Able to explain the concepts of knowledge for teachers and prospective teachers	Able to explain the concepts of teacher and prospective teacher knowledge: Knowledge For Teaching	Form of Assessment: Project Results Assessment / Product Assessment	Classroom Activities: Collaborative Reciprocity; class discussion 2 x 50			0%	
3	Sub-CPMK2 Able to explain research results related to Mathematics in and for teaching	Able to explain research results related to Mathematics in and for teaching	Criteria: Independent and Group Assignments Form of Assessment: Participatory Activities, Project Results Assessment / Product Assessment	Classroom Activities: Collaborative Reciprocity; class discussion 2 X 50			0%	

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4	Sub-CPMK-3 Able to describe research on assessments related to teacher knowledge qualitatively	Able to explain research results regarding teacher knowledge assessment	Criteria: Independent and Group Assignments Form of Assessment : Participatory Activities	Classroom Activities: Collaborative Reciprocity; class discussion 2 X 50	0%	6
5	Sub-CPMK-3 Able to describe research on assessments related to teacher knowledge quantitatively	Able to explain research results regarding teacher knowledge assessment	Criteria: Independent and Group Assignments	Classroom Activities: Collaborative Reciprocity; class discussion 2 X 50	0%	6
6		Able to describe cases as tools in Mathematics Teacher Education	Form of Assessment : Participatory Activities	Classroom Activities: Collaborative Reciprocity; class discussion 2 X 50	5%	%
7	Sub-CPMK-1 Able to synthesize and describe tasks in mathematics teacher education	Able to explain the concept of Tasks in Mathematics Teacher Education	Criteria: Independent and Group Assignments Form of Assessment: Project Results Assessment / Product Assessment, Portfolio Assessment	Classroom Activities: Collaborative Reciprocity; class discussion 2 X 50	300	%
8				Midterm Evaluation	209	%
9	Sub-CPMK-3 Able to synthesize Research in Mathematics Education as tools in MTE	Able to explain research in the field of Mathematics Education as a tool in MTE	Form of Assessment: Project Results Assessment / Product Assessment	Classroom Activities: Collaborative Reciprocity; class discussion 2 x 50	0%	6
10	Sub-CPMK-3. Able to apply the concept of knowledge and praxis of mathematics teacher education in small research	Able to apply the concept of knowledge and praxis of mathematics teacher education in small research	Criteria: Independent and Group Assignments Form of Assessment: Participatory Activities	Classroom Activities: Collaborative Reciprocity; class discussion 2 x 50	0%	6
11	Sub-CPMK-3. Able to apply the concept of knowledge and praxis of mathematics teacher education in small research	Able to apply the concept of knowledge and praxis of mathematics teacher education in small research	Criteria: Independent and Group Assignments	Classroom Activities: Collaborative Reciprocity; class discussion 2 x 50	0%	%
12	Sub-CPMK-3. Able to apply the concept of knowledge and praxis of mathematics teacher education in small research	Able to apply the concept of knowledge and praxis of mathematics teacher education in small research	Criteria: Independent and Group Assignments	Classroom Activities: Collaborative Reciprocity; class discussion 2 x 50	5%	%
13	Sub-CPMK-3. Able to apply the concept of knowledge and praxis of mathematics teacher education in small research		Criteria: Independent and Group Assignments Form of Assessment: Participatory Activities	Classroom Activities: Collaborative Reciprocity; class discussion 2 x 50	0%	6

14	Sub-CPMK-3. Able to communicate the results of applying the concept of knowledge and praxis of mathematics teacher education in small research	Able to communicate the results of knowledge concepts and praxis of mathematics teacher education in small research	Criteria: Independent and Group Assignments	Classroom Activities: Collaborative Reciprocity; class discussion 2 x 50		0%
15	Sub-CPMK-3. Able to communicate the results of applying the concept of knowledge and praxis of mathematics teacher education in small research	Able to communicate the results of knowledge concepts and praxis of mathematics teacher education in small research	Criteria: Independent and Group Assignments Form of Assessment : Project Results Assessment / Product Assessment	Classroom Activities: Collaborative Reciprocity; class discussion 2 x 50		30%
16						0%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	7.5%
2.	Project Results Assessment / Product Assessment	47.5%
3.	Portfolio Assessment	15%
		70%

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.
- 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.
- Indicators for assessing abilities in the process and student learning outcomes are specific and measurable statements that identify the abilities or performance of student learning outcomes accompanied by evidence.
- 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.
- 7. Forms of assessment: test and non-test.
- 8. 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.
- 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.