



Universitas Negeri Surabaya
Faculty of Mathematics and Natural Sciences
Bachelor of Mathematics Education Study Program

Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date																																										
Mathematics Education Seminar	8420202200		T=2	P=0	ECTS=3.18	5	July 17, 2024																																										
AUTHORIZATION	SP Developer		Course Cluster Coordinator			Study Program Coordinator																																											
			Dr. Endah Budi Rahaju, M.Pd.																																											
Learning model	Case Studies																																																
Program Learning Outcomes (PLO)	PLO study program that is charged to the course																																																
	Program Objectives (PO)																																																
	PLO-PO Matrix																																																
		P.O																																															
	PO Matrix at the end of each learning stage (Sub-PO)																																																
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="width: 20%;">P.O</td> <td colspan="16" style="text-align: center;">Week</td> </tr> <tr> <td style="width: 5%;">1</td> <td style="width: 5%;">2</td> <td style="width: 5%;">3</td> <td style="width: 5%;">4</td> <td style="width: 5%;">5</td> <td style="width: 5%;">6</td> <td style="width: 5%;">7</td> <td style="width: 5%;">8</td> <td style="width: 5%;">9</td> <td style="width: 5%;">10</td> <td style="width: 5%;">11</td> <td style="width: 5%;">12</td> <td style="width: 5%;">13</td> <td style="width: 5%;">14</td> <td style="width: 5%;">15</td> <td style="width: 5%;">16</td> </tr> </table>																P.O	Week																1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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Short Course Description	This course provides students with understanding and mastery of scientific writing, explaining the contents of scientific articles, literature studies to make research proposals for Mathematics Education, arguments for the contents of a scientific article in the field of Mathematics Education with a Focus Group Discussion setting. Apart from that, techniques for writing scientific papers are also given. Thus, at the end of the lecture, it is hoped that you will be able to produce scientific articles/papers in the field of Mathematics Education.																																																
References	Main :																																																
	1. 1. Suseno, S. (1980). Teknik Penulisan Ilmiah Populer . Jakarta: Gramedia2. Tim. (2011). Panduan Penulisan Proposal dan Skripsi Program Studi Kimia . Surabaya: Unesa University Press 3. Tim (2006). Panduan Penulisan dan Penilaian Skripsi. Surabaya: Unesa Univeristy Press.																																																
	Supporters:																																																
Supporting lecturer	Dr. Hj. Masriyah, M.Pd.																																																
	Dr. Rini Setianingsih, M.Kes.																																																
	Dr. Janet Trineke Manoy, M.Pd.																																																
	Dr. Endah Budi Rahaju, M.Pd.																																																
	Dr. Ismail, M.Pd.																																																
	Dr. Susannah, M.Pd.																																																
	Dr. Pradnyo Wijayanti, M.Pd.																																																
	Prof. Dr. Tatag Yuli Eko Siswono, S.Pd., M.Pd.																																																
	Dr. Siti Khabibah, M.Pd.																																																
	Abdul Haris Rosyidi, S.Pd., M.Pd.																																																
	Prof. Rooselyna Ekawati, Ph.D.																																																
	Ika Kurniasari, S.Pd., M.Pd.																																																
	Dini Kinati Fardah, S.Pd.Si., M.Pd.																																																
	Shofan Fiangga, S.Pd., M.Sc.																																																
	Dr. Ali Shodikin, S.Pd., M.Pd.																																																
Dr. Nonik Indrawatiningsih, M.Pd.																																																	
Evangelista Lus Windyana Palupi, S.Pd., M.Sc.																																																	
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Dr. Yurizka Melia Sari, M.Pd.																																																	
Yulia Izza El Milla, S.Pd., M.Pd.																																																	
Dayat Hidayat, S.Pd., M.Pd., M.Si.																																																	
Week-	Final abilities of each learning stage (Sub-PO)	Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References]	Assessment Weight (%)																																										
		Indicator	Criteria & Form	Offline (offline)	Online (online)																																												
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)																																										

1	Understand the techniques for preparing a scientific work	<ol style="list-style-type: none"> 1.1. Explain the meaning of scientific work 2. Explain the components of scientific work 3. Try indicators 	Form of Assessment : Participatory Activities	Presentation and discussion Insert link 2 X 50			5%
2	Able to search library materials	<ol style="list-style-type: none"> 1. Explain the types of library materials 2. Able to search for library sources 	Criteria: <ol style="list-style-type: none"> 1. The assessment is carried out on the following aspects: <ol style="list-style-type: none"> 2.1. Participation in lectures and seminar paper presentations (weight 2) 3.2. Sub-summative tests or mid-semester exams (UTS) are carried out to assess the progress of preparing the research proposal draft and are given weight (2) 4.3. Assessment of structured assignments and seminar papers or draft proposals, then given weights (3) 5.4. The final semester exam (UAS) is used to measure presentation skills and defend seminar papers or research proposal drafts and the results are given a weight of 5. 6. The final NA is (participation value x2) (Assignment value x 3) (UTS value x 2) UAS value (3) divided by 10 	Presentation and discussion 2 X 50			0%

3	Able to search library materials	<p>1.Explain the types of library materials</p> <p>2.Able to search for library sources</p>	<p>Criteria:</p> <p>1.The assessment is carried out on the following aspects:</p> <p>2.1. Participation in lectures and seminar paper presentations (weight 2)</p> <p>3.2. Sub-summative tests or mid-semester exams (UTS) are carried out to assess the progress of preparing the research proposal draft and are given weight (2)</p> <p>4.3. Assessment of structured assignments and seminar papers or draft proposals, then given weights (3)</p> <p>5.4. The final semester exam (UAS) is used to measure presentation skills and defend seminar papers or research proposal drafts and the results are given a weight of 5.</p> <p>6.The final NA is (participation value x2) (Assignment value x 3) (UTS value x 2) UAS value (3) divided by 10</p> <p>Form of Assessment : Participatory Activities</p>	Presentation and discussion 2 X 50			5%
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4	Able to search library materials	<ol style="list-style-type: none"> 1.Explain the types of library materials 2.Able to search for library sources 	<p>Criteria:</p> <ol style="list-style-type: none"> 1.The assessment is carried out on the following aspects: <ol style="list-style-type: none"> 2.1. Participation in lectures and seminar paper presentations (weight 2) 3.2. Sub-summative tests or mid-semester exams (UTS) are carried out to assess the progress of preparing the research proposal draft and are given weight (2) 4.3. Assessment of structured assignments and seminar papers or draft proposals, then given weights (3) 5.4. The final semester exam (UAS) is used to measure presentation skills and defend seminar papers or research proposal drafts and the results are given a weight of 5. 6.The final NA is (participation value x2) (Assignment value x 3) (UTS value x 2) UAS value (3) divided by 10 	Presentation and discussion 2 X 50			0%
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5	Able to search library materials	<ol style="list-style-type: none"> 1.Explain the types of library materials 2.Able to search for library sources 	<p>Criteria:</p> <ol style="list-style-type: none"> 1.The assessment is carried out on the following aspects: <ol style="list-style-type: none"> 2.1. Participation in lectures and seminar paper presentations (weight 2) 3.2. Sub-summative tests or mid-semester exams (UTS) are carried out to assess the progress of preparing the research proposal draft and are given weight (2) 4.3. Assessment of structured assignments and seminar papers or draft proposals, then given weights (3) 5.4. The final semester exam (UAS) is used to measure presentation skills and defend seminar papers or research proposal drafts and the results are given a weight of 5. 6.The final NA is (participation value x2) (Assignment value x 3) (UTS value x 2) UAS value (3) divided by 10 	Presentation and discussion 2 X 50			0%
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6	Able to prepare the introductory part of a research proposal	1. Able to prepare the background of the problem 2. Able to formulate the problem 3. Able to formulate research objectives 4. Able to formulate the benefits of research 5. Able to formulate operational definitions 6. Able to formulate research assumptions and limitations	Criteria: 1. The assessment is carried out on the following aspects: 2.1. Participation in lectures and seminar paper presentations (weight 2) 3.2. Sub-summative tests or mid-semester exams (UTS) are carried out to assess the progress of preparing the research proposal draft and are given weight (2) 4.3. Assessment of structured assignments and seminar papers or draft proposals, then given weights (3) 5.4. The final semester exam (UAS) is used to measure presentation skills and defend seminar papers or research proposal drafts and the results are given a weight of 5. 6. The final NA is (participation value x2) (Assignment value x 3) (UTS value x 2) UAS value (3) divided by 10	2 X 50			0%
7	Able to prepare the literature review section of a research proposal	1. Able to compile theoretical studies supporting research 2. Able to compile relevant research results 3. Able to develop a framework for thinking		Discussions, presentations and consultations 2 X 50			0%
8	UTS. Presentation of background, literature review, and framework		Form of Assessment : Participatory Activities, Tests	2 X 50			30%
9	Developing research methodology	Develop a research methodology according to the problem posed	Form of Assessment : Participatory Activities	Discussion, Mentoring 2 X 50			0%
10	Developing research methodology	Develop a research methodology according to the problem posed	Form of Assessment : Participatory Activities	Discussion, Mentoring 2 X 50			5%
11	Developing research methodology	Develop a research methodology according to the problem posed	Form of Assessment : Participatory Activities	Discussion, Mentoring 2 X 50			5%
12	Understand research instruments	Students can prepare research instruments	Form of Assessment : Participatory Activities	Assistance 2 X 50			5%
13	Understand research instruments	Students can prepare research instruments	Form of Assessment : Participatory Activities	Assistance 2 X 50			5%

14	Understand how to analyze research data	Calculating/analyzing research data	<p>Criteria:</p> <ol style="list-style-type: none"> 1. The assessment is carried out on the following aspects: 2.1. Participation in lectures and seminar paper presentations (weight 2) 3.2. Sub-summative tests or mid-semester exams (UTS) are carried out to assess the progress of preparing the research proposal draft and are given weight (2) 4.3. Assessment of structured assignments and seminar papers or draft proposals, then given weights (3) 5.4. The final semester exam (UAS) is used to measure presentation skills and defend seminar papers or research proposal drafts and the results are given a weight of 5. 6. The final NA is (participation value x 2) (Assignment value x 3) (UTS value x 2) UAS value (3) divided by 10 <p>Form of Assessment : Participatory Activities</p>	Mentoring/workshop 2 X 50			5%
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15	Understand how to analyze research data	Calculating/analyzing research data	Criteria: 1. The assessment is carried out on the following aspects: 2.1. Participation in lectures and seminar paper presentations (weight 2) 3.2. Sub-summative tests or mid-semester exams (UTS) are carried out to assess the progress of preparing the research proposal draft and are given weight (2) 4.3. Assessment of structured assignments and seminar papers or draft proposals, then given weights (3) 5.4. The final semester exam (UAS) is used to measure presentation skills and defend seminar papers or research proposal drafts and the results are given a weight of 5. 6. The final NA is (participation value x2) (Assignment value x 3) (UTS value x 2) UAS value (3) divided by 10	Mentoring/workshop 2 X 50			0%
16			Form of Assessment : Test				0%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	50%
2.	Test	15%
		65%

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.
- 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.
- 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** 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.
- 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.
- 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.
- 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.