	Universitas Negeri Surabaya Faculty of Languages and Arts Fine Arts Undergraduate Study Program	Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date
Science phylosophy	9020102063		T=2	P=0	ECTS=3.18	5	July 18, 2024

AUTHORIZATION	SP Developer	Course Cluster Coordinator	Study Program Coordinator
	.....	.....	Dra. Indah Chrysanti Angge, M.Sn.

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)

P.O	Week															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Short Course Description	This course examines the objects of study of philosophy and science; Foundations of Science Study: Ontology, Epistemology, and Axiology; History of the Development of Science; Structure of Science; Theory of truth of Science; Scientific logic and methods of scientific thinking; Philosophy of Science and Technology; Morality of Science; Philosophy, Science and Technology and Culture.
References	**Main :**

1. Adib, Mohammad. 2015. Filsafat Ilmu: Ontologi, Epistemologi, Aksiologi, dan logika Ilmu Pengetahuan. Yogyakarta: Pustaka Pelajar
2. Bakhtiar Amsal. 2011. Filsafat Ilmu. Kakarta: PT.Rajagrafindo Persada
3. Liang Gie, The. 2012. Pengantar Filsafat Ilmu . Yogyakarta: Liberty
4. Pramono, Made, dkk. 2005. Filsafat Ilmu: Kajian Ontologi, Epistemologi, dan Aksiologi Ilmu . Unesa University Press

	Supporters:
Supporting lecturer	MUHAJIR MUCHAMMAD BAYU TEJO SAMPURNO

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	Understanding the nature & scope of Philosophy of Science	1. Explain the meaning of science and philosophy 2. Explain the meaning of philosophy of science	**Criteria:** 1.1). Conformity between the assignment material created and the specified topic 2.2). Suitability of presentation materials (powerpoint/video) to the topic. 3.3). Powerpoint/video support for smooth presentations 4.4). Presentation appeal 5.5). Ability to answer questions asked by the audience.	Lecture, question and answer 2 X 50			0%
2	Understanding Philosophy, Science, and the Philosophy of Science	1. Make a concept map of Philosophy, Science and Philosophy of Science 2. Explain the concept of Philosophy, Science and Philosophy of Science 3. Make a comparison of Philosophy, Science and Philosophy of Science	**Criteria:** 1.1). Conformity between the assignment material created and the specified topic 2.2). Suitability of presentation materials (powerpoint/video) to the topic. 3.3). Powerpoint/video support for smooth presentations 4.4). Presentation appeal 5.5). Ability to answer questions asked by the audience.	Lecture, Question and answer 2 X 50			0%
3	Analyzing the objects of study in philosophy and science	1. Explain the differences in objects of study and points of view between philosophy and science 2. Detail the basics of understanding science	**Criteria:** 1.1). Conformity between the assignment material created and the specified topic 2.2). Suitability of presentation materials (powerpoint/video) to the topic. 3.3). Powerpoint/video support for smooth presentations 4.4). Presentation appeal 5.5). Ability to answer questions asked by the audience.	Lectures, discussions, questions and answers 2 X 50			0%
4	Understanding the Foundations of Science Study: Ontology, Epistemology, and Axiology	1. Explain the ontological basis (the object studied by science) 2. Explain the epistemological basis (the method used to study science) 3. Explain the axiological basis (the benefits/usefulness of the science studied)	**Criteria:** 1.1). Conformity between the assignment material created and the specified topic 2.2). Suitability of presentation materials (powerpoint/video) to the topic. 3.3). Powerpoint/video support for smooth presentations 4.4). Presentation appeal 5.5). Ability to answer questions asked by the audience.	Lectures, questions and answers, assignments 2 X 50			0%

5	Understanding the Foundations of Science Study: Ontology, Epistemology, and Axiology	1. Explain the ontological basis (the object studied by science) 2. Explain the epistemological basis (the method used to study science) 3. Explain the axiological basis (the benefits/usefulness of the science studied)	**Criteria:** 1.1). Conformity between the assignment material created and the specified topic 2.2). Suitability of presentation materials (powerpoint/video) to the topic. 3.3). Powerpoint/video support for smooth presentations 4.4). Presentation appeal 5.5). Ability to answer questions asked by the audience.	Lectures, questions and answers, assignments 2 X 50			0%
6	Understanding the History of Scientific Development	1. Explain the history of the development of science 2. Explain the development of science after the 17th century 3. Explain the positive aspects of the Renaissance spirit	**Criteria:** 1.1). Conformity between the assignment material created and the specified topic 2.2). Suitability of presentation materials (powerpoint/video) to the topic. 3.3). Powerpoint/video support for smooth presentations 4.4). Presentation appeal 5.5). Ability to answer questions asked by the audience.	Presentation, Question and answer 2 X 50			0%
7	Understanding the History of Scientific Development	1. Explain the history of the development of science 2. Explain the development of science after the 17th century 3. Explain the positive aspects of the Renaissance spirit	**Criteria:** 1.1). Conformity between the assignment material created and the specified topic 2.2). Suitability of presentation materials (powerpoint/video) to the topic. 3.3). Powerpoint/video support for smooth presentations 4.4). Presentation appeal 5.5). Ability to answer questions asked by the audience.	Presentation, Question and answer 2 X 50			0%
8	Indicators and study materials refer to meetings 1 to 7	Indicators and study materials refer to meetings 1 to 7		2 X 50			0%
9	Analyzing Science	1. Explain the definition & types of knowledge. 2. Explain the nature and sources of knowledge.	**Criteria:** 1.1). Conformity between the assignment material created and the specified topic 2.2). Suitability of presentation materials (powerpoint/video) to the topic. 3.3). Powerpoint/video support for smooth presentations 4.4). Presentation appeal 5.5). Ability to answer questions asked by the audience.	Presentation and Question and Answer 2 X 50			0%

10	Analyzing the theory of scientific truth	1. Explain the nature of the theory of scientific truth. 2. Detail the theory of truth. Science consists of: coherence, correspondence, positivistic, pragmatic, essentialistic, constructivist, religiousistic	**Criteria:** 1.1). Conformity between the assignment material created and the specified topic 2.2). Suitability of presentation materials (powerpoint/video) to the topic. 3.3). Powerpoint/video support for smooth presentations 4.4). Presentation appeal 5.5). Ability to answer questions asked by the audience.	Lectures, questions and answers, assignments 2 X 50			0%
11	Analyzing the theory of scientific truth	1. Explain the nature of the theory of scientific truth. 2. Detail the theory of truth. Science consists of: coherence, correspondence, positivistic, pragmatic, essentialistic, constructivist, religiousistic	**Criteria:** 1.1). Conformity between the assignment material created and the specified topic 2.2). Suitability of presentation materials (powerpoint/video) to the topic. 3.3). Powerpoint/video support for smooth presentations 4.4). Presentation appeal 5.5). Ability to answer questions asked by the audience.	Lectures, questions and answers, assignments 2 X 50			0%
12	Understanding scientific logic and scientific thinking methods	Explaining the logic of science, consisting of (1) the nature of thinking, (2) the meaning and criteria of scientific thinking methods	**Criteria:** 1.1). Conformity between the assignment material created and the specified topic 2.2). Suitability of presentation materials (powerpoint/video) to the topic. 3.3). Powerpoint/video support for smooth presentations 4.4). Presentation appeal 5.5). Ability to answer questions asked by the audience.	Presentation and Question and Answer 2 X 50			0%
13	Understanding the Philosophy of Science and Technology	1. Explain the meaning of philosophy of science and technology. 2. Explain the relationship between philosophy of science and technology	**Criteria:** 1.1). Conformity between the assignment material created and the specified topic 2.2). Suitability of presentation materials (powerpoint/video) to the topic. 3.3). Powerpoint/video support for smooth presentations 4.4). Presentation appeal 5.5). Ability to answer questions asked by the audience.	Presentation and questions and answers 2 X 50			0%

14	Understanding the Morality of Science	Explain: 1. Responsibilities of scientists 2. Principles of science 3. Denial and resistance to ethics	**Criteria:** 1.1). Conformity between the assignment material created and the specified topic 2.2). Suitability of presentation materials (powerpoint/video) to the topic. 3.3). Powerpoint/video support for smooth presentations 4.4). Presentation appeal 5.5). Ability to answer questions asked by the audience.	Presentation and questions and answers 2 X 50			0%
15	Understanding Philosophy, Science and Technology and Culture	Explain: 1. The concept of science, technology and culture 2. The relationship between science, technology and culture	**Criteria:** 1.1). Conformity between the assignment material created and the specified topic 2.2). Suitability of presentation materials (powerpoint/video) to the topic. 3.3). Powerpoint/video support for smooth presentations 4.4). Presentation appeal 5.5). Ability to answer questions asked by the audience.	Presentation and questions and answers 2 X 50			0%
16	Indicators and study materials refer to meetings 9 to 15	Indicators and study materials refer to meetings 9 to 15	**Criteria:** 1.1). Conformity between the assignment material created and the specified topic 2.2). Ability to answer questions asked.	written test 2 X 50			0%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
		0%

Notes

1. **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.
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.
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.