



Universitas Negeri Surabaya
Faculty of Education,
Doctoral Study Program in Educational Management

Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight	SEMESTER	Compilation Date																																																																																				
Science phylosophy	8603102922	Compulsory Study Program Subjects	T=0 P=0 ECTS=0	1	May 5, 2023																																																																																				
AUTHORIZATION	SP Developer		Course Cluster Coordinator		Study Program Coordinator																																																																																				
	Dr. Amrozi Khamidi, M.Pd		Prof. Dr. Rusijono, M.Pd		Dr. Nunuk Hariyati, S.Pd., M.Pd.																																																																																				
Learning model	Project Based Learning																																																																																								
Program Learning Outcomes (PLO)	PLO study program that is charged to the course																																																																																								
	Program Objectives (PO)																																																																																								
	PO - 1	CPMK1 Able to internalize the character of "intelligent, innovative, noble, independent, caring, academically ethical and committed to developing new ideas in accordance with the roles and functions carried out inside and outside the work environment, as well as in the context of society, nation and state based on values value of Philosophy of Science																																																																																							
	PO - 2	Having knowledge at an advanced level about the core substance and extensions of the Philosophy of Science, discussing concepts and theories in the field of philosophy of science, students will study the history of the development of thought in the philosophy of science as well as contemporary issues in epistemology and scientific methodology. to produce creative, original and tested work based on the theory of the Philosophy of Science.																																																																																							
	PO - 3	Able to solve contemporary issues in epistemology and scientific methodology based on the theory of Philosophy of Science.																																																																																							
	PLO-PO Matrix																																																																																								
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PO Matrix at the end of each learning stage (Sub-PO)																																																																																									
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Short Course Description	The Philosophy of Science course is a compulsory course with a weight of 2 credits, containing the study of ontology, epistemology and axiology of science in the constellation of various other knowledge as well as the development of scientific knowledge. Doctoral program students must be able to have the competence to carry out analysis and interpretation of oral and written information to create works in the form of philosophy books and articles published in international journals.																																																																																								
References	Main :																																																																																								
	<ol style="list-style-type: none"> 1. Hitchcock. (1981). Philospoy of Science 2. Ladyman.J (1920). Understanding Philosophy of Science 3. Hickey T, (1968). Introduction to Philosophy 																																																																																								
	Supporters:																																																																																								

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Supporting lecturer
 Prof. Drs. H. Toho Cholik Mutohir, M.A., Ph.D.
 Prof. Dr. Rusijono, M.Pd.
 Dr. Amrozi Khamidi, S.Pd., M.Pd.

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	Able to analyze the definition of development and analysis of the Philosophy of Science as well as its function and use in social life		Form of Assessment : Participatory Activities, Practice/Performance	Introduction to the Philosophy of Contract Science 100 minute lecture		Material: Hitchcock, Christopher. Philosophy of Science Library:	5%
2	Able to analyze the definition of development and analysis of the philosophy of science as well as its function and use in social life	Students understand the targets and objectives of Philosophy of Science lectures	Criteria: able to understand and understand the division of Project Base Learning Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment	development and understanding of Ontology material 100 minutes		Material: Hitchcock, Christopher. Philosophy of Science Library:	7%
3	Able to analyze the definition of development and analysis of the philosophy of science as well as its function and use in social life	students understand the material Who is Philosophy of Science	Criteria: Understanding and mastery of the material presented Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practices / Performance	teacher center development and analysis of Axiology 100 minutes		Material: Hitchcock, Christopher. Philosophy of Science Library:	5%
4	Able to analyze the interrelation between the development and analysis of the philosophy of science theoretically and practically	students understand Why philosophy of science, Explanation, causation and laws	Criteria: Understanding and mastery of the material presented Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practices / Performance	Teacer center for development and analysis of Epistemology 100 minutes		Material: Hitchcock, Christopher. Philosophy of Science Library:	5%

5	Able to analyze the interrelation between the development and analysis of the philosophy of science theoretically and practically	students are able to understand Scientific explanation and its discontents, The structure and metaphysics of scientific theories	<p>Criteria: Understanding and mastery of the material presented</p> <p>Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practices / Performance</p>		Group 1 Foundation of Philosophy paper presentation 100 minutes	<p>Material: Hitchcock, Christopher. Philosophy of Science Library:</p>	5%
6	Able to analyze the interrelation between the development and analysis of the philosophy of science theoretically and practically	students are able to understand Scientific explanation and its discontents, The structure and metaphysics of scientific theories	<p>Criteria: Understanding and mastery of the material presented</p> <p>Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practices / Performance</p>		Group 2 Metaphysics paper presentation 100 minutes	<p>Material: Hitchcock, Christopher. Philosophy of Science Library:</p>	5%
7	Able to analyze scientific foundations in the theoretical dimensions of development and analysis of the philosophy of science	students are able to understand The epistemology of scientific theorizing, The challenges of history and post-positivism	<p>Criteria: Understanding and mastery of the material presented</p> <p>Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practices / Performance</p>		Group 3 Critical rationalism paper presentation 100 minutes	<p>Material: Hitchcock, Christopher. Philosophy of Science Library:</p>	5%
8	Able to analyze scientific foundations in the theoretical dimensions of development and analysis of the philosophy of science	students are able to understand the contested character of science and the fundamental questions of philosophy	<p>Criteria: Understanding and mastery of the material presented</p> <p>Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practices / Performance</p>	uts 100 minutes		<p>Material: Hitchcock, Christopher. Philosophy of Science Library:</p>	5%
9	Able to analyze scientific foundations in the theoretical dimensions of development and analysis of the philosophy of science	students are able to understand Psychology and social sciences	<p>Criteria: Understanding and mastery of the material presented</p> <p>Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practices / Performance</p>		Group 4 Logical Empiricism paper presentation 100 minutes	<p>Material: Hitchcock, Christopher. Philosophy of Science Library:</p>	5%
10	Able to analyze the scope of development and analysis of the philosophy of science and its position in the implementation of education	students are able to understand The Financing of Local Public Schools	<p>Criteria: Understanding and mastery of the material presented</p> <p>Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practices / Performance</p>		Group 5 paper presentation Pragmatism and science 100 minutes	<p>Material: Hitchcock, Christopher. Philosophy of Science Library:</p>	5%

11	Able to analyze the scope of development and analysis of the Philosophy of Science and its position in the implementation of education	students are able to understand cover major topics in primary secondary education policy and higher education policy, respectively, and include specific chapters on accountability programs, school finance, and financing education at the collegiate level	<p>Criteria: Understanding and mastery of the material presented</p> <p>Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practices / Performance</p>		Group 6 scientific method paper presentation 100 minutes	<p>Material: Hitchcock, Christopher. Philosophy of Science Library:</p>	5%
12	Able to analyze the scope of development and analysis of the Philosophy of Science and its position in the implementation of education	Students are able to complete and create base learning project reports	<p>Criteria: Understanding and mastery of the material presented</p> <p>Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practices / Performance</p>		Logic as a means of scientific thinking 100 minutes	<p>Material: Hitchcock, Christopher. Philosophy of Science Library:</p>	5%
13	Able to analyze the interrelation between the development and analysis of the philosophy of science theoretically and practically	students are able to understand Scientific explanation and its discontents, The structure and metaphysics of scientific theories	<p>Criteria: Understanding and mastery of case studies in the field</p> <p>Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practices / Performance</p>		student center The structure of theories 100 minutes	<p>Material: Hitchcock, Christopher. Philosophy of Science Library:</p>	5%
14	Able to solve educational problems and develop alternative solutions based on the foundations and basic concepts of educational management through inter, multi and transdisciplinary approaches	Students are able to understand data collection and preparation of scientific journal articles according to journal templates	<p>Criteria: Understanding and mastery of data collection and preparation of scientific journal articles according to journal templates</p> <p>Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practices / Performance</p>		group presentation 8 Science and morals 100 minutes	<p>Material: Hitchcock, Christopher. Philosophy of Science Library:</p>	17%
15	group presentation 9Science, technology and culture	Students are able to upload scientific articles (Submit)	<p>Criteria: Understanding Upload Scientific articles (Submit)</p> <p>Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practices / Performance</p>	student center 100 minutes		<p>Material: Hitchcock, Christopher. Philosophy of Science Library:</p>	10%
16	Able to solve educational problems and develop alternative solutions based on the foundations and basic concepts of educational management through inter, multi and transdisciplinary approaches	Students are able to understand and complete product-based learning, namely articles (submits) in scientific journals and teaching materials on the philosophy of science	<p>Criteria: Understanding, mastery and completion of all lecture assignments</p> <p>Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practices / Performance</p>	UAS 100 minutes		<p>Material: Hitchcock, Christopher. Philosophy of Science Library:</p>	5%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	33.87%
2.	Project Results Assessment / Product Assessment	31.37%
3.	Practical Assessment	2.33%
4.	Practice / Performance	31.54%
		99.11%

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.