
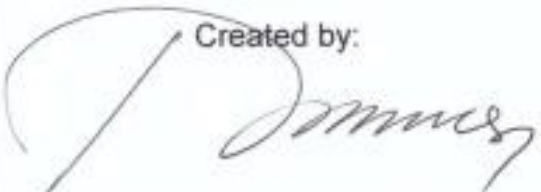




**SEMESTER LESSON PLAN
PHILOSOPHY OF SCIENCE**



**Lecturer:
Dr. Mamat Supriatna, M.Pd.**

**MASTER PROGRAM IN EDUCATIONAL PSYCHOLOGY
SCHOOL OF POSTGRADUATE STUDIES
UNIVERSITAS PENDIDIKAN INDONESIA
2022/2023**

	SEMESTER LESSON PLAN	Dok NO. :
	Philosophy of Science	Revision :
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<p>Created by:</p>  <p>Dr. Mamat Supriyatna, M.Pd. NIP. 196008291987031002</p>	<p>Validated by :</p>  <p>Hani Yulindrasari, S.Psi., M.Gendst., Ph.D. NIP. 197907142002122001</p>	<p>Approved by :</p>  <p>Dr. Tina Hayati Dahlan, M.Pd., Psikolog NIP. 197204192009122002</p>
Lecturer	QCC on Educational Psychology	Head of Study Program
SEMESTER LESSON PLAN		
1. Course Identity		
Name of Study Program : Educational Psychology		
Course name : Philosophy of Science		
Code : PS702		
Classification : Core Competency Courses of Postgraduate		
Credit (s) : 2		
Program : Master Program		
Semester : 2 (two)		
prerequisite : -		
Status : Compulsory		

Lecture (s) and Lecturee Code: Dr. Mamat Supriatna, M.Pd. (1011)

2. Course description

This course examines the scope of issues related to philosophy and philosophy of science, the nature of philosophy of science, the basic framework of theory/science, ontology (the rational principle of something), epistemology (how to obtain knowledge procedurally and validly/correctly), how scientists work (scientific argumentation, means of scientific reasoning, scientific truth criteria), axiology (the nature of the usefulness of science and technology), and implications for education and education systems based on Pancasila. This course is intended to strengthen students' insights into understanding the theory and practice of education from the perspective of the philosophy of science, through the study of (1) the opening of scientific horizons; (2) the normal nature of science; (3) criteria of science; (4) scope and method of science; (5) facts of science; (6) scientific laws; (7) probability; (8) space and time; (9) geometry of motion; (10) matter; (11) laws of motion; (12) life; (13) classification of science; (14) generalization. The study is in order to find confidence that the decisions taken have been supported by a comprehensive rationale and understanding of the background of educational policies and educational activities in educational institutions.

This course balances theoretical studies with practical analysis of the education field (specifically related disciplines), so students need to enrich the study of various philosophical references under the guidance of course lecturers.

3. Learning outcomes

A: Demonstrate scientific, educative, and religious attitudes and behaviors, which contribute to improving the quality of life in society, nation, and country based on culture, norms, and academic ethics.

K1: Comprehend the concepts, theories, and principles in educational psychology, developmental psychology, and pedagogy, and their implementation in educational practices.

GS2 : Develop logical, critical, systematic, and creative thinking and apply them in conducting and publishing interdisciplinary research that takes into account humanities values in accordance with the educational psychology expertise.

4. Course Learning Outcomes

- Able to understand critically analytically the foundation of the philosophy of science in the framework of discipline development (educational psychology).

- Able to have a positive attitude towards the way of explanation, analysis, argumentation, criticism, logical reflective thinking, and sensitivity to phenomena based on a combination of multiple intelligences, and inspired by a philosophy of science thinking that underlies scientific activities.
- Able to synthesize the principles of the philosophy of science to design research and development strategies in the field of educational psychology.

5. Semester Learning Plan

Meetings	Objectives	Topics	Learning Strategy	Time	Assessment	References
1	Explain the background, name, objectives, material points, strategies, bills, and evaluations in the pedagogical foundation lecture.	- Lecture Orientation: Background, name, objectives, subject matter, strategies, bills, and evaluation of the lecture	Lectures, questions and answers, and assignments	100 minutes	Students look for references that are relevant to the study material in lectures	• 1- 19
2	Identify scientific horizon openers.	- Studies on opening scientific horizons	Discussion, lecture, question and answer	100 minutes	Students review material according to the subject matter in the form of papers	• 1

3	Analyze studies on the normal nature of science	- A study of the normal nature of science	Discussion, lecture, question and answer	100 minutes	Students review material according to the subject matter in the form of papers	• 1
4	Analyze the study of the criteria of science	- A study of the criteria of science	Discussion, lecture, question and answer	100 minutes	Students review material according to the subject matter in the form of papers	• 1
5	Analyze the study of the scope and methods of science	- Study of the scope and methods of science	Discussion, lecture, question and answer	100 minutes	Students review material according to the subject matter in the form of papers	• 1-14

6	Analyze the study of the facts of science	- A study of the facts of science	Discussion, lecture, question and answer	100 minutes	Students review material according to the subject matter in the form of papers	• 1
7	Analyze the study of scientific law	- Study of scientific law	Discussion, lecture, question and answer	100 minutes	Students review material according to the subject matter in the form of papers	• 1
8	MIDTERM EXAM					
9	Analyze the study of probability	- The study of probability	Discussion, lecture, question and answer	100 minutes	Students review material according to the subject matter in the form of papers	• 1

10	Analyze the study of space and time	- The study of time and space	Discussion, lecture, question and answer	100 minutes	Students review material according to the subject matter in the form of papers	• 1
11	Analyze the study of the geometry of motion	- Study of geometry of motion	Discussion, lecture, question and answer	100 minutes	Students review material according to the subject matter in the form of papers	• 1
12	Analyze the study of the matter	- Study of motion matter	Discussion, lecture, question and answer	100 minutes	Students review material according to the subject matter in the form of papers	• 1

13	Analyze the study of the motion law	- Study of motion law	Discussion, lecture, question and answer	100 minutes	Students review material according to the subject matter in the form of papers	• 1
14	Analyze the study of life and science classification	- Study of life and science classification	Discussion, lecture, question and answer	100 minutes	Students review material according to the subject matter in the form of papers	• 1
15	Analyze the study of generalization	- Study of generalization	Seminar and Q&A	100 minutes	Presenting a paper in a seminar	• 1
16	FINAL EXAM				Learning source	

6. Daftar Rujukan

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6. Atiyeh, G.N. (1983). Al-kindi, Tokoh Filsafat Muslim. Bandung: Pustaka.
7. Audi, R. (1988) Belief, Justification and Knowledge. An Introduction to Epistemology. California: Wadsworth publishing company.
8. Bakker, A., et al. (1990). Metodologi Penelitian Filsafat. Yogyakarta: Kanisius.
9. ----- (1978). Sejarah Filsafat Islam. Yogyakarta: Kanisius.
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