Department of Communication
Subject Syllabus

Subject Code : KOM2

Subject Title : Logics and Philosophy of Science

Subject Specification : For students in Communication Faculty

Subject Overview : The Subject is a core subject under social science. This Subject will introduce the students in order to understand the Logics and Philosophy of Science through knowledge about proposition, argument, and philosophical science as the source and truth of science. This course is concerned with characterizing rational thoughts, truths, and contents of thoughts in the most fundamental ways possible and trying to model students using modern formal logic.

Course Objectives :
After completing this subject students are expected to:

1. Understanding the logics and philosophy science and its elements
2. Applying the logical and philosophical thought in a daily life
3. Improve the character of rational thought
4. Understanding the law and social science in relations with logics and philosophy

Course Method : The course will be conducted through interactive learning, it will consist of class discussion, students presentation, quiz, case study analysis , paper, assignment and exams.

Learning Outcome (Competence) :

- Knowledge : Understanding the law and social science in relations with logics and philosophy
- Skill : Analytical skills, problem-solving, communication skills
- Attitude : Open mindedness by combining the logic and philosophical thought with daily life activities

Course content :

Week	Topic
1	Introduction to the course, understanding the term of logics
	Term, Understanding, and Definition
2	Proposition
	Astray of Thought
3	Syllogism/categorical argument
	Syllogism/Hypothetical Argument

4	Opposition
	Introduction to philosophy (part I)
5	Introduction to philosophy (part II)
	Introduction to philosophical science
6	Nature of Science
	The Truth of Science
7	Induction methods and problems of induction
	The law and theories of science
Final Examination	

Grading System :
In the Letter Grade System, the quantitative grades mean:

Grade	Symbol	Conversion Value
90 – 100	A	4.0
85 – 89.99	A-	3.7
80 – 84.99	B+	3.3
75 – 79.99	B	3.0
70 – 74.99	B-	2.7
65 – 69.99	C+	2.3
60 – 64.99	C	2.0
50 – 59.99	C-	1.7
40 – 49.99	D	1.0
< 40	E	0

The student Grade Point Average (GPA) is organized into the following categories:
GPA of 0.00 – 1.99 = Fail
GPA of 2.00 – 2.49 = Pass
GPA of 2.50 – 2.99 = Credit
GPA of 3.00 – 3.49 = Merit
GPA of 3.50 – 4.00 = Distinction

Course Evaluation :
As a general rule, students are evaluated based on the following criteria:

Final Examinations	40%
Weekly Discussion	40%
Quiz	10%
Live Sesion Attendance	10%
TOTAL	100%

Lecturers, however, have the option of requiring midterm and final papers in lieu of midterm and final examinations. They may likewise change the percentage (weight) for each of the above mentioned items.

Scheme of Work :

Session	Title/Topic	Area Discussion	Activities
1	**Introduction to the course, understanding the term of logics**	1. The meaning of logics 2. Kinds of Logics 3. The Object of logics 4. Logics and Language 5. Logics and dialect 6. Logics and philosophy	Lecturing Discussions Q&A
	Term, Understanding, and Definition	1. The meaning of term 2. The meaning of understanding 3. The meaning of definition 4. Kinds of definition 5. The way to examine the definition as a philosophical assignment	Lecturing Assignment (write 250 words on the topics, The way to examine the definition as a philosophical assignment
2	**Proposition**	1. The meaning of proposition 2. Proposition of categories 3. Proposition of hypothetical 4. Venn diagram and Boole sign for proposition	Lecturing/Review Presentations
	Astray of Thought	1. The meaning of astray 2. Astray because of language 3. Relevance of astray	Lecturing Class Discussions
3	**Syllogism / categorical argument**	1. The meaning of syllogism / argument 2. Principal of syllogism / argument 3. The law of syllogism / categorical argument	Lecturing General Discussions
	Syllogism / Hypothetical Argument	1. Hypothetical Conditional Syllogism 2. Hypothetical Disjunctive Syllogism 3. Hypothetical Conjunctive Syllogism	Lecturing Q&A
4	**Opposition**	1. The meaning of opposition 2. Kinds of opposition 3. The laws of opposition	Lectures Q&A Work in a group of 5 persons (max), discussion explain about the law of opposition
	Introduction to philosophy (part I)	1. Understanding of philosophy 2. Object of philosophy 3. Method of philosophy 4. Lines of philosophy 5. History of philosophy	Lectures and theory class Sharing case study Q&A
5	**Introduction to philosophy (part II)**	1. The similar and differences between philosophy and science 2. The similar and differences between philosophy and religion 3. Relations between philosophy and religion 4. Relations between philosophy and science	Lectures and theory class Sharing case study Q&A

	Introduction to philosophical science	1. Knowledge and science 2. Philosophical knowledge and philosophical science 3. Knowledge and believe 4. Skepticism	Lectures Sharing case study Assignment (What Skepticism?)
6	**Nature of Science**	1. Rationale point of view 2. Empirical point of view 3. Synthesis between rationale and empirical point of view 4. Constructive 5. Social constructive	Lectures and theory class Sharing case study
	The Truth of Science	1. The theories of the truth of science 2. The basic understanding of the truth of science 3. The conformity of the truth of 4. science	Lectures and theory class Sharing case study
7	**Induction methods and problems of induction**	1. Induction of Bacon style 2. Critics to Bacon style 3. Steps in induction methods 4. Problems of Situation 5. Hypothetic formulating and	Lectures and theory class Sharing case study Q&A
	The law and theories of science	1. Law as relational of cause and effect 2. Characteristic of Scientific Law 3. Law and nature of continuity 4. Evolution and science continuity 5. From Law to theories	Lectures and theory class Q & A
8	**All materials relevance with Logics & Science Of Philosophy**		

Guest lecturer: (BASED ON SUBJECT AND CRITERIA)

Individual Presentation/Group Presentation/Class Participation Guideline:
Group presentations/class participation will become the main focus of the sessions. It is expected that the students will be using the Power Point system during their presentation. Group presentations/class participations are the most effective in sharpening your ability in understanding the materials being discussed. The assigned chapters are intended to give you practice in assembling materials, data, and analysis to support an understanding of the subject in the real world. Furthermore, this method will provide a vehicle by which to apply the theories, concepts, and analytical devices. Finally, the discussion forum provides an opportunity to argue your position and to learn from others by listening to their comments and criticisms.

We recommend that you read your materials more than once. As part of your preparation for class, it is expected that you analyze the materials in your group. In class, we will examine completely all aspects of the situation: facts, assumptions, alternatives, and recommendations.

Final Assessment Guideline :
Written Examination OR Group Project OR Group Presentation OR Individual Project

References :

- Woodhouse, Mark B. Berfilsafat Sebuah Langkah Awal. Yogyakarta: Kanisius, 2000.
- Suriasumantri, Jujun.S. Filsafat Ilmu Sebuah Pengantar Populer. Jakarta: Pustaka Sinar Harapan, 2002.
- Keraf, Sony A. dan Mikhael Dua. Ilmu Pengetahuan sebagai Tinjauan Filosofis. Yogyakarta: Kanisius, 2001.
- Soekadijo. R.G. Logika Dasar. Jakarta: Gramedia, 1994.
- Hayon, Y.P. Logika Prinsip-Prinsip Bernalar Tepat, Lurus dan Teratur, Jakarta: ISTN, 1999.

Supplemental (Recommended) Resources:

- Berten, K. Panorama Filsafat Modern. Jakarta : teraju, 2005.
- Sutriono. dan Hanafi Rita. Filsafat Ilmu dan Metodologi Penelitian. Yogyakarta: Andi Offset, 2007.
- Mundiri, H. Logika. Jakarta: Raja Grafindo Persada, 2005.
- Hendriquez, Embu. Logika (Diktat Kuliat). Jakarta: Unika Atmajaya, 1996.
- Bierman, Arthur K. dan Robin N. Assali. The Critical Thinking Handbook. New Jersey: Prentice Hall, 1996.

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