	UNIVERSITAS PEMBANGUNAN NASIONAL "VETERAN" YOGYAKARTA **FACULTY OF SOCIAL SCIENCE AND POLITICAL SCIENCE** **BACHELOR PROGRAM OF COMMUNICATION SCIENCE**	**DOCUMENT CODE** CUD/COMMUNICATION SCIENCE/S1/1530022/2023

COURSE UNIT DESCRIPTION (CUD)

COURSE UNIT (CU) & CODE: Basic Logic	**COURSE UNIT CLUSTER (CUC):** Communication Science	**ECTS CREDITS ALLOCATED:** T = 3.2 P = - 1.6 / 3.2 / 4.8 / 9.6	**SEMESTER:** 1st
LANGUAGE OF INSTRUCTION: Bahasa Indonesia	**COURSE UNIT TYPE:** Compulsory	**DATE CREATED:** 10/01/2023	**Level of course unit (according to EQF):** Level 6 First Cycle Bachelor

AUTHORIZED	**LECTURER OF CUD CREATOR:** Drs. Arif Wibawa, M.Si. Meike Lusye Karolus, S.Sos, M.A	**CUC COORDINATOR:** Drs. Arif Wibawa, M.Si.	**COORDINATOR STUDY PROGRAM:**  Drs. Arif Wibawa, M.Si

Learning Outcome (LO) CPL	**Program Learning Outcome in Course Unit (PLO-CU)**	
	A1	Demonstrate a spiritual, disciplined, creative, entrepreneurial, diligent, honest, excellent, and *bela negara* attitude in performing tasks within their area of expertise (LO1).
	K1	Explain the paradigms, perspectives, traditions, and theories that support analytical skills in the field of communication (LO7)

	GS1	Create creative and ethical works to foster innovation in the field of Communication (LO3)
	SS1	Demonstrate persuasive, informative, and transformative communication messages across various media platforms to support a career in the field of communication (LO10).

Course Description

The Basic Logic course provides students with a solid understanding of the fundamental principles and techniques of logical reasoning. It introduces students to the concepts of deductive and inductive reasoning, logical operators, truth tables, and logical fallacies. Through lectures, discussions, and interactive exercises, students will develop critical thinking skills and the ability to evaluate arguments effectively.

Learning Objectives

By the end of this course, students will be able to:

1. Understand the basic principles of deductive and inductive reasoning.
2. Identify and apply logical operators, including conjunction, disjunction, negation, implication, and equivalence.
3. Construct and analyze truth tables for complex logical expressions.
4. Recognize and avoid common logical fallacies in arguments.
5. Evaluate the validity and soundness of arguments using logical principles.
6. Apply logical reasoning skills to real-world scenarios and communication contexts.

Course Policies

Attendance
Regular attendance is expected for all class sessions. More than three unexcused absences may result in a deduction of final grades. If you are unable to attend a class, please inform the instructor in advance.

Participation
Active participation in class discussions, group activities, and exercises is essential for a comprehensive understanding of the course material. Students are encouraged to ask questions and contribute to the learning environment.

Assignments
Assignments will be given throughout the semester to reinforce and assess students' understanding of the course material. These may include problem-solving exercises, quizzes, and written assignments. Assignments are to be submitted on time. Late submissions may incur a penalty unless prior arrangements have been made with the instructor.

Examinations

There will be two examinations during the course: a midterm examination and a final examination. These exams will assess students' knowledge and understanding of the course material. The midterm examination will cover topics from the first half of the course, while the final examination will be comprehensive. Dates for the examinations will be announced in advance.

Academic Integrity

Students are expected to adhere to the university's academic integrity policy. Plagiarism, cheating, and any form of academic dishonesty will not be tolerated and may result in severe penalties, including failure of the course.

Course Outline

The course will be delivered over a period of 16 weeks, covering the following topics:

Week 1: Students can explain Introduction to Logic

- Course overview and expectations
- Importance of logical reasoning in communication
- Basic concepts of deductive and inductive reasoning

Week 2: Students can explain Logical Operators

- Conjunction and disjunction
- Negation and implication
- Equivalence and biconditional statements

Week 3: Students can explain Truth Tables

- Constructing truth tables for simple statements
- Evaluating compound statements using truth tables

Week 4: Students can explain Validity and Soundness

- Defining validity and soundness
- Distinguishing between deductive and inductive arguments
- Evaluating arguments for validity and soundness

Week 5: Students can explain Logical Fallacies

- Common logical fallacies in arguments
- Recognizing and avoiding fallacious reasoning

Week 6: Students can explain Quantifiers and Predicates

- Introduction to quantifiers (universal and existential)
- Using predicates to express logical relationships

Week 7: Students can explain Deductive Reasoning

- Introduction to formal deductive systems
- Using rules of inference to construct proofs

Week 8: MID TEST

Week 9: Students can explain Categorical Logic

- Categorical propositions and their relationships
- Applying categorical logic to real-world examples

Week 10: Students can explain Modal Logic

- Introduction to modal logic
- Understanding necessity and possibility

Week 11: Students can explain Informal Fallacies

- Additional examples of common informal fallacies
- Critically evaluating arguments for fallacious reasoning

Week 12: Students can explain Logic and Language

- Relationship between logic and natural language

- Analyzing the logical structure of sentences and arguments

Week 13: Students can explain Logic and Media

- Application of logical reasoning in media analysis
- Identifying logical fallacies in media messages

Week 14: Students can explain Logic and Persuasion

- Logical reasoning in persuasive communication
- Using logic to strengthen persuasive arguments

Week 15: Students can explain Logic and Ethics

- Ethics and logical reasoning
- Applying logical principles to ethical dilemmas

Week 16: FINAL TEST

Grading

The final grade for the course will be calculated based on the following components:

- Assignments: 30%
- Midterm Examination: 30%
- Final Examination: 40%

References:

- Hurley, P. J. (2019). A Concise Introduction to Logic (13th ed.). Cengage Learning.
- Copi, I. M., Cohen, C., & McMahon, K. (2017). Introduction to Logic (15th ed.). Pearson.
- Sagan, C. (1996). The Demon-Haunted World: Science as a Candle in the Dark. Random House.