SUKANTA MAHAVIDYALAYA

NAAC Accredited with Grade B+

[A Govt. Aided College, Permanently Affiliated to North Bengal University Enlisted Under Sec. 2(F) and 12(B) of the U.G.C. Act. 1956]

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In-Charge Department Of Philosophy

Ref: SMV/PHIL/2025/008 dt.: 15/07/2025

SUKANTA MAHAVIDYALAYA • DHUPGURI

Notice

This is to notify that, Department of Philisophy, Sukanta Mahavidyalaya is going to conduct an Add-On Course on "Foundations of Logical Reasoning" from 18.07. 2025, for all the students of Philosophy(Major), Semeser-V.

So in this regard, all students are directed to participate in the course positively. The duration of this course will be 30 hours and after completion of the course, certificate will be provided to all the participants.

NOTE: All the students are directed to register in the Google Form given below.

Registration Link:

https://shorturl.at/qQqkt

15/07/25

Departmental In-charge
Department of Philosophy
Sukanta Mahavidyalaya

Departmental-in-charge

Department of Philosophy

Sukanta Mahavidyalaya

Dhupguri, Jalpaiguri

15/7/25

Principal

Sukanta Mahavidyalaya

Dhupguri, Jalpaiguri

Principal
Sukanta Mahavidyalaya
Dhupguri, Jalpaiguri

Add-On Course On *"Foundations of Logical Reasoning"*

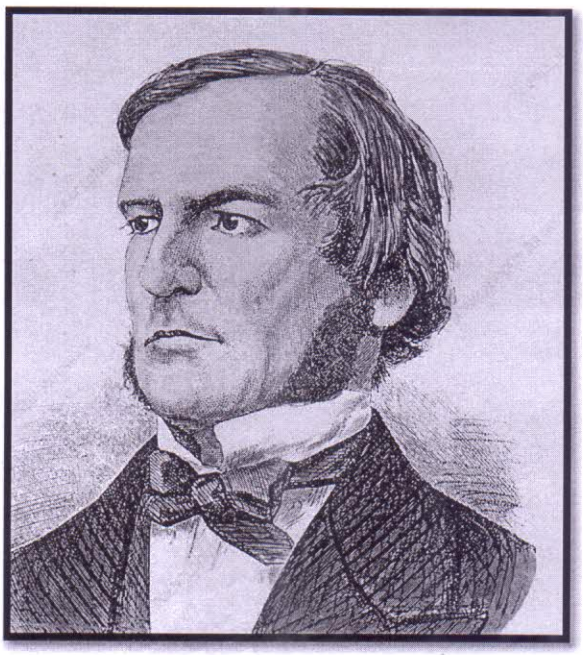
For Fifth Semester(Major) Students

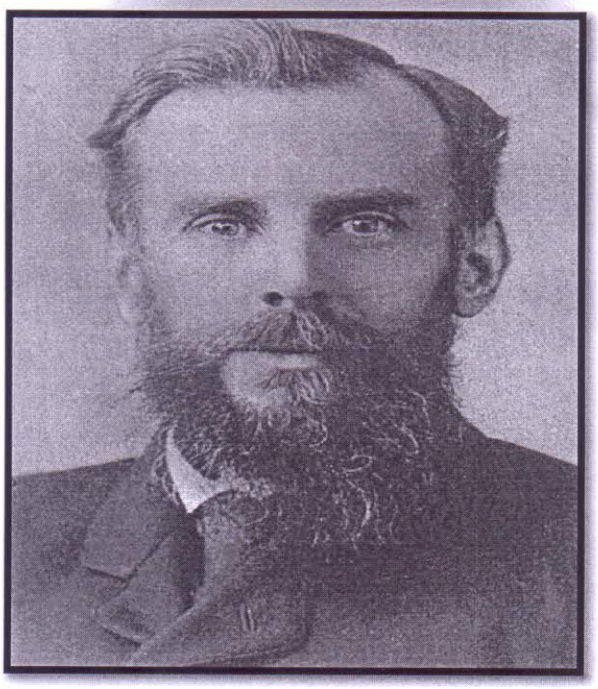
Commencement From: ***18 July, 2025***

Duration: ***30 Hours***

Registration Link:

https://shorturl.at/qQqkt





Organized by:

Department of Philosophy

SUKANTA MAHAVIDYALAYA,
DHUPGURI, JALPAIGURI

SUKANTA MAHAVIDYALAYA
DHUPGURI

Introduction:

Add-on courses are short-term training programmes that are designed to supplement the core curriculum of a degree program. These courses are usually offered as certificate or diploma course and they provide students with additional skills and knowledge that are relevant to their field of study.

About the course:

As the tool for analyzing arguments and ensuring clarity in thought, Logic holds a central role in philosophy. In daily life, it guides rational decision-making, problem-solving, and effective communication. By distinguishing valid from invalid reasoning, logic helps us think critically and live more thoughtfully and coherently.

"Foundations of Logical Reasoning" introduces students to the principles of valid thinking and argumentation. It covers deductive and inductive reasoning, symbolic logic, and common fallacies, aiming to enhance analytical skills and clarity in thought. Ideal for beginners, the course builds a solid base for critical and structured reasoning.

Course Title:

Foundations of Logical Reasoning

Course Duration: 30 Classes (Each class of 1 hour)

Course Objectives:

This course deals with logic starting with its definition along with defining propositions and sentences, their components, terms, quantity, quality, distribution, and more. Later, students will learn about different types of Opposition of Propositions and master the Square of Opposition along with its laws for inference. The center of the course is Categorical Syllogisms which include their structure, figure, mood, important validity rules, identifying fallacies, and some special valid moods which introduces Venn diagrams for testing validity. Lastly, students will master the Venn Diagram Method for two and three term propositions and how to represent the diagrams accurately with interpretation to test the syllogism's validity.

Course Syllabus (Class-wise Breakdown):

Unit I: Introduction to Logic (Class 1–3)

1. Introduction to Logic: Nature, Scope and Relevance
2. Proposition vs Sentence: Types of Propositions
3. Terms, Quantity, Quality, and Distribution

Unit II: Opposition of Propositions (Class 4–10)

1. Kinds of Opposition of Proposition
2. The Square of Opposition
3. Inference by Opposition
4. Laws of Different Types of Inference by Opposition

Unit III: Categorical Syllogism (Class 11–20)

1. Structure of Categorical Syllogism: Major, Minor, Middle Terms
2. Figure and Mood of Syllogism
3. Validity Rules of Categorical Syllogism
4. Fallacies in Syllogistic Reasoning
5. Special Valid Moods in Each Figure
6. Venn Diagram and Syllogistic Validity
7. Practice Exercises

Unit IV: Venn Diagram Method (Class 21–27)

1. Introduction to Venn Diagrams: 2-Term and 3-Term
2. Diagramming Categorical Propositions
3. Venn Method for Testing Syllogism Validity
4. Interpretation of Shading and "X" Marks
5. Universal vs Particular Propositions on Venn
6. Practice with Venn Diagram Problems

Unit V: Application and Assessment (Class 28–30)

1. Review and Revision: Opposition of Proposition, Syllogism, Venn
2. Final Evaluation

Assessment Methods:

- **Regular Class Exercises (20%)**
- **Participation and Attendance (10%)**
- **End-term Written Test (70%)**

Distribution of Hours:

Course Duration: 30 Hours	Syllabus of the Course	Name of the Faculty Members
3 Hours.	Unit I: Introduction to Logic	KP
7 Hours	Unit II: Opposition of Propositions	BLD
10 Hours	Unit III: Categorical Syllogism	PCD
7 Hours.	Unit IV: Venn Diagram Method	BS
3 Hours	Unit V: Application and Assessment	KP, BLD, PCD, BS

Course Outcomes:

At the end of the course, students will be able to…

CO1: Students will analyze common arguments: They'll be able to recognize, and dissect, the logical structure of the sort of arguments they hear every day in conversation, media, or professional life.

CO2: Identify Logical Fallacies: Students develop the ability to point out inconsistencies, hidden assumptions, and popular misconceptions in whatever they are presented with for greater critical thinking.

CO3: Critical Thinking: Students will use logic and critical thinking skills to impact work, personal endeavors, and society.

CO4: Organize Complex Ideas: Students will employ the use of Thought organiser (Venn diagram) to demonstrate how ideas are related to one another and to test the internal consistency of information.

CO5: Think more clearly: Students will learn to reason more systematically, and thus to construct and express their own arguments more clearly and forcefully.