

Anekant Education Society's
Tuljaram Chaturchand College of Arts, Science & Commerce, Baramati,
Dist- Pune
(Autonomous College)

Department of Philosophy & Logic
Syllabus

Course Structure for T.Y.B.A. Logic (General)

Semester	Paper Code	Title of Paper	No. of Credits
V	LOG3501	LOGIC: Methodology of SocialScience	3
VI	LOG3601	LOGIC: Methodology of SocialScience	3

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LEARNING OBJECTIVES

- I. To acquaint the students with some important issues regarding methodology of Science.
- II. To introduce major methodological approaches in Natural Sciences and Social Sciences

LEARNING OUTCOME

- I. To know and remember specific facts, terms concepts, principles or theories
- II. To understand, interpret, compare, contrast, explain
- III. To apply knowledge to new situations to solve problems using required knowledge or skills
- IV. To create something, to integrate ideas into a solution, to propose an action plan, to formulate a new classification scheme

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Department of Philosophy & Logic

Syllabus

Course Structure for T.Y.B.A. Logic (General) (w.e. from June, 2021)

Academic Year 2021 – 2022

Class: T.Y.B.A. (Semester- V)

Paper Code: LOG 3501 Paper: G-3

Title of Paper: Methodology of Social Science - I

Credit: 3

No. of Lectures: 48

(60 - 40 pattern to be Implemented from 2021-2022)

Semester V

Unit 1: Nature of science

A. Pure and applied Sciences. Commonsense and Science.

B. Theory and fact. Role of theory and fact.

C. Values and Science

Unit 2: Aristotle's causation theory

A. Aristotle's concept of cause

B. Causation Theory (Material, Efficient, Formal and Final cause)

C. Aristotle's concept Categories.

Unit 3: Mill's theory of causation

A. Mill's Notion of Cause

B. Mill's Method of Causal analysis.

C. Mill's five methods

Unit 4: Uses of logic

A. Personal and social life

B. Judiciary C. Science D. Computer

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Department of LOGIC

Syllabus

Course Structure for T.Y.B.A. Logic (General) (w.e. from June, 2021)

Academic Year 2021 – 2022

Class: T.Y.B.A. (Semester- VI)

Paper Code: LOG 3601

Paper: G-3

Title of Paper: Methodology of Social Science II

Credit: 3

No. of Lectures: 48

(60 - 40 pattern to be Implemented from 2021-2022)

Semester VI

Unit 1: Laws of thought

- A. Law of identity**
- B. Law of Contradiction**
- C. Law of excluded-middle**
- D. Law of sufficient reason (Leibniz)**

Unit 2: Laws

- A. Laws in general**
- B. Laws of Nature**
- C. Classifications of laws of Nature**
Primary laws, Secondary laws (Empirical, Derivative laws, invariable laws, approximate laws, law of succession, laws of co-existence)

Unit 3: Natural and Social Science

- A. Distinction between Natural Sciences and Social Science, Nature of human action and social institutions**
- B. Nature of social laws**
- C. Value neutrality and Objectivity in social sciences**

Unit 4: Research Methodology

A. Concept of Research

B. Research Methodology in social sciences

C. Method of data collection:

1. Survey,
2. Observation,
3. Questionnaire,
4. Interview.

(Nature, types, merits and limitations of each method)

Books for Reading:

1. Nagel E. The Structure of Science Problem in the Logic of Scientific Explanation MacMillan 1961.
2. Hempel C. G. Philosophy of Natural Science, Prentice Hall Englewood Cliff New Jersey 1966
3. Keat Russell Urry, Social Theory as science RKP London 1975
4. Ryan Alan Philosophy of social science MacMillan 1970
5. Lessnoff M.H. The Structure of Social Science: A Philosophical Introduction George Allan Unwin Ltd. London 1974.
6. R. Rudner Philosophy of Social Science Prentice Hall Englewood Cliff New Jersey 1966
7. सुरेंद्र बारलिंगे (१९७२), तर्करेखा, पुणे विद्यापीठ, पुणे
8. दे. द. वाडेकर संपादक (१९७४) मराठी तत्वज्ञान महाकोश खंड ३, पुणे.
9. दि. य. देशपांडे (१९७६), सांकेतिक तर्कशास्त्र, नागपूर.
10. डॉ. बी. आर जोशी ; प्रा. एस. व्ही. कुलकर्णी; प्रा. इ. आर. मठवाले (२००२) , तर्कविद्या2 , परभणी, स्वाती प्रकाशन.
11. प्रा. सौ. माधवी कवी (२००४) तत्वज्ञान प्रदीप, लातूर, विद्याभारती प्रकाशन.

Books for Reference:

1. Hempel C. G. Aspects of Scientific Explanation, Free Press New York, 1968
2. Benton, Ted. Philosophy of Social Science: Philosophical foundation of social thought. Craib Ian, Palgrave, New York.
3. Tucker, John, Philosophy of Social Science.
4. Deshpande S.S., Ghokale P.P., More S.S. (Eds.) Vijnanace Tattvajnana, Granthali, Mumbai, 2006.