

SYLLABUS-1

SUBJECTS WITHOUT TRIAL

SUBJECT: LOGIC

CLASS – II YEAR P.U.C.CODE: 23

| Sl. No. | DURATION | CHAPTER | TOTAL HOURS |
|----------------|--|--|--------------------|
| 1. | FIRST TERM From 15-07-2021 Till 15-09-2021 | Chapter I <u>NATURE OF INDUCTION</u> A. Differences between deduction and induction. Relation between deduction and induction. B. Kinds of Induction. 1. Improper induction : a) Perfect induction. b) Parity of reasoning. c) Colligation of facts. 2. Proper Induction : a) Simple Enumeration-Characteristics, Merits and demerits, fallacy of Hasty Generalization. b) Analogy- characteristics of good Analogy, uses of Analogy, fallacy of unsound Analogy. c) Scientific Induction – characteristics. Chapter VIII <u>MATERIAL FALLACIES</u> Meaning, nature, kinds 1) Fallacy of Argumentum - ad- Hominum. 2) Fallacy of Argumentum -ad - Baculum. 3) Fallacy of Argumentum - ad - | 32 |

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| | | Vericundium. 4) Fallacy of many question. | |
| 2. | FIRST TERM EXAM From 13-09-2021 Till 15-09-2021 | Syllabus -The Curriculum taught in the First Term The Exams are conducted in the same way as the Annual Exam questionnaire. | |
| 3. | Assessment – 1 | Giving students logical thinking topics | |
| 4. | SECOND TERM From 16-09-2021 Till 30-11-2021 | <p>Chapter II</p> <p><u>POSTULATES OP INDUCTION/ GROUNDS OF INDUCTION</u></p> <p>A)Formal Grounds of Induction</p> <p>1) Law of uniformity of nature. Kinds of uniformities-</p> <p>(a) The uniformity of succession (b) Uniformity of co-existence (c) Uniformity of Equality and Inequality, Origin or Ground of our belief in the uniformity of nature</p> <p>1. Intuitional theory or a prior theory. 2. A posterior theory or empirical theory, fallacy of petitio Principii. 3. The evolutionary theory.</p> <p>1) Law of Causation.</p> <p>B)Material Grounds of Induction</p> <p>1. Observation: Characteristics, conditions of observation - fallacies - non observation, mal observation, importance of scientific instruments in observation.</p> | 35 |

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| | | <p>2. Experiment: Characteristics - differences between observation and experiment. Advantages of observation over experiment Advantages of experiment over observation.</p> <p>Chapter IV</p> <p><u>J.S.MILL'S EXPERIMENTAL METHODS</u></p> <p>Introduction - Five experimental methods of J.S.Mill</p> <ol style="list-style-type: none"> 1. Method of Agreement 2. Method of Difference 3. Joint method of Agreement and Difference. 4. Method of Concomitant variation. 5. Method of Residues. Evaluation of Mills methods | |
| 5. | Assessment – 2 | Giving students logical thinking topics | |
| 6. | Mid-Term Exam From 20-11-2021 Till 30-11-2021 | Syllabus Based on the chapter thought in term 1 & 2 | |
| 7. | THIRD TERM From 01-12-2021 Till 30-01-2022 | <p>Chapter III</p> <p><u>CONCEPT OF CAUSE</u></p> <p>Popular view of causation - plurality of causes, conjunction of causes, intermixture of effects- Homogeneous, Heterogeneous. Aristotle's view of cause - material cause, formal cause, efficient cause, final cause J.S.Mill's view of cause. Characteristics of causation Scientific view of causation - quantitative view of causation - Differences between popular and</p> | 33 |

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| | | <p>scientific view of causation, cause and condition. Fallacy of Post-hoc- ergo-propter-hoc.</p> <p>Chapter V</p> <p><u>SCIENTIFIC METHOD AND HYPOTHESIS</u></p> <p>Scientific method - Nature and characteristics of science, Scientific method -Scientific attitude. Hypothesis- meaning and formation of Hypothesis - characteristics of good hypothesis-verification of hypothesis- proof of hypothesis - crucial instance - crucial experiment - role of hypothesis in scientific investigation.</p> | |
| 8. | <p>SECOND TERM EXAM</p> <p>From 28-01-2022 Till 31-01-2022</p> | Syllabus Chapter learnt in Third Term | |
| 9. | <p>FOURTH TERM</p> <p>From 01-02-2022 Till 31-03-2022</p> | <p>Chapter VI</p> <p><u>PROBABILITY</u></p> <p>Probability –Meaning - Grounds of Probability - Probability and Induction.</p> <p>Chapter VII</p> <p><u>SCIENTIFIC EXPLANATION</u></p> <p>Meaning- Kinds of Scientific Explanation - differences between Popular and Scientific Explanation - limits of Scientific Explanation.</p> | 28 |

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| | | <p>Chapter IX</p> <p><u>INDIAN LOGIC</u></p> <p>Theories of errors –</p> <p>a)Atmakhyathivada, AsathkhyathiVada,AnyathakhyathiVada, AnirvachaneeyakhyathiVada.</p> <p>b) Theories of Causation 1.SankhyaDarshana.2.VaisesikaDarshana. 3.Adwaitha.4.Vishistadwaitha. 5.BouddhaDarshana.6.CharvakaDarshana.</p> | |
| 10. | <p>PREPARATORY EXAM</p> <p>From 24-03-2022 Till 30-03-2022</p> | Syllabus all the Chapters | |
| 11. | <p>ANNUAL EXAM</p> <p>April First Week</p> | Syllabus all the Chapters | |