

**B.A. Part - I**  
**Scientific Method (S.M.) Course –I**  
**Paper: Scientific Method (S.M.) – I**  
**Code-SM1**

**(Credit 04)**

**Teaching Hours: 60**

**Course Outcome:**

1. Awareness about superstitions
2. Understanding primary information of basics of postulate
3. Understanding of observation and scientific thinking
4. Knowledge of social research

**Unit No.1: Nature of Science**

**(15)**

- 1.1: Definition and Characteristics of Science
- 1.2: Commonsense and Science
- 1.3: Classification of Sciences
- 1.4: Natural and social Sciences
- 1.5: Positive and Normative Sciences

**Unit No.2: Postulates of Science**

**(15)**

- 2.1: Nature and Definition of Postulate
- 2.2: Types of Postulate
- 2.3: Uniformity of Nature
- 2.4: Principle of Causality
- 2.5: Objectivity

**Unit No.3: Scientific Investigation**

**(15)**

- 3.1: Stages of Scientific investigation
- 3.2: Nature and Characteristics of Scientific observation
- 3.3: Fallacies of observation
- 3.4: Merits and demerits of observation and Experiment
- 3.5: Limits of observation and Experiment

**Unit No.4: Techniques of Social Research**

**(15)**

- 4.1: Nature and Definition of Research
- 4.2: Survey
- 4.3: Questionnaire
- 4.4: Interview

June 2019 onwards  
**B.A. Part - I**  
**Scientific Method (S.M.) Course –II**  
**Paper: Scientific Method (S.M.) – II**  
**Code- SM2**

**(Credit 04)**

**Teaching Hours: 60**

**Course Outcome:**

1. Understanding of hypothesis.
2. Understanding of information, laws and scientific explanation
3. Awareness about population control
4. Understanding of communication and information technology

**Unit No.1: Hypothesis**

**(15)**

- 1.1: Definition and nature of Hypothesis
- 1.2: Importance of Hypothesis
- 1.3: Conditions of valid Hypothesis
- 1.4: Verification and proof of Hypothesis

**Unit No.2: Laws and Scientific Explanation**

**(15)**

- 2.1: Meaning of Law
- 2.2: Kinds of Laws
- 2.3: Kinds of Laws of Nature
- 2.4: Scientific Explanation: Definition, Nature and Kinds

**Unit No.3: Scientific Attitude**

**(15)**

- 3.1: Nature and importance of Scientific Attitude
- 3.2: Ecological Balance
- 3.3: AIDS Awareness
- 3.4: Scientific attitude towards water consumption
- 3.5: Population Control

**Unit No.4: Computer Education**

**(15)**

- 4.1: Definition and Nature of Computer
- 4.2: Hardware and Software
- 4.3: Parts of Computer
- 4.4: Uses of Computer in various fields