

**EBO 3006: Research Methodology and Scientific Presentations (Credits: 2)**

**Unit-I Research Methodology and Scientific Presentation-I**

1. Science and Research: Definition of Science and Research, Basic and applied Research, Essential steps in Research.
2. Characteristic and type of scientific research: Characteristics of the Scientific Method, Research Procedures (only 8 steps). Sectors of Research: Academic and Private.
3. Research and Experimental design:  
Introduction, Pre-Experimental Design, The One-Shot Case Study, One Group Pretest Posttest Study, The Static Group Comparison Study, Quasi-Experimental Design, Pretest Posttest Nonequivalent Group, Time Series Designs, Nonequivalent Before-After Design, True Experimental Design, Posttest Equivalent Groups Study, Pretest Posttest Equivalent Groups Study.

**Unit-II Research Methodology and Scientific Presentation-II**

1. Method of Data collection and Data analysis
2. Scientific Writing: Research proposal, Research Paper, Review paper, Thesis, Conference report, Book review and Project report; Reference writing, scientific abbreviations, Findings.
3. Preparation and delivery of scientific presentations