Programme Structure

The Pre Ph.D. course shall compromise of only one semester (i.e. six months) in which there will be two compulsory papers:

Sl.No.	Paper	Marks
1.	Paper-I: Research Methodology in Behavioural Sciences	100
2.	Paper-II: Emerging Trends and Issues in Education	100
3.	Submission of two term papers (more than 7500 words) and presentation	50

Paper I: Research Methodology in Behavioural Sciences

UNIT I   Research Procedure
- Meaning and objectives of educational research
- Selection of problem
- Review of literature
- Research design, population and sampling
- Tools and data collection
- Statistical analysis of data
- Formulation of conclusions and generalization

UNIT II   Research Methods
- Philosophical research
- Historical research
- Descriptive research
- Survey research
- Development research
- Ex-post facto research

UNIT III   Experimental Designs
- Meaning and purpose of basic experimental design and basic types of errors
- Difference between research design and experimental design
- Types of experimental design
  - Simple Random design
  - Levels of treatment design
  - Level & Subject design
  - Random Replication design
  - Group with in treatment design
  - Factorial design

UNIT IV   Parametric and Non Parametric Tests
- Meaning and purpose of parametric test and non-parametric test
- Difference between parametric and non-parametric test
- "H" test, its meaning, purpose; assumptions and uses
- Analysis of variance technique of "F" test
- Analysis of co-variance technique
- Regression, step regression
- $X2$=test, its purpose and use
- Median test and sign test

UNIT V   Advanced Technique of Correlation
- Meaning and purpose of correlation
- Correlational technique
    - Contingency
    - Phi-correlation
    - Person's correlation
    - Multiple-correlation
- Factor-Analysis Technique with special reference to centroid method

UNIT VI   Computer Application in Research
- Use of computers in:
    - Data processing
    - Word processing
    - Graphical processing
    - Different phases of research
- Use of statistical software in data analysis

UNIT VII   Writing Research
- Need for writing research report
- Preparing research synopsis
- Format of research report
- Technical aspects of research report
- Writing research report
- Writing research abstract
- Writing research paper

Paper II: Emerging Trends and Issues in Education

UNIT I   Interdisciplinary Approach in Education
- Interdisciplinary approaches - concept , need and scope
- Interdisciplinary approach in Teaching
- Interdisciplinary approach in Learning
- Interdisciplinary approach in Research

UNIT II   Approaches of Learning
- Lifelong Learning
- Open and Distance Learning
- Co-operative Learning
- Blended Learning
- Flexi Space Learning
- Reflective Learning

UNIT III   Processes of Learning
- Inquiry Based Learning
- Brain Based Learning
- Media literary and Learning

UNIT IV   Trends in Education
- Inclusive Education
- ICT in Education
- Life Skill Education
- Multicultural Education
- Alternative Assessment
- Social Constructivism

UNIT V   Issues in Education
- Educational Policies
- Wellbeing Education
- Comparative Education
- Development Education
- Citizenship Education
- Economics of Education

UNIT VI   Globalization and Education
- Differences between globalization, internationalization, and internationalism
- Paradoxes of globalization
- Global Policies in Education. EFA, MDGs.
- Globalization and educational reform