

# **SHRI GURU RAM RAI UNIVERSITY**

Patel Nagar Dehradun-248001, Uttarakhand

(Estd. by Govt. of Uttarakhand, vide Shri Guru Ram Rai University Act no. 03 of 2017)



**Syllabus  
For  
Ph.D. Education  
Effective from Academic Session  
2018-2021**

***Shri Guru Ram Rai College of Education***  
**Shri Guru Ram Rai University**  
**Dehradun, Uttarakhand**

### **Ph.D. IN EDUCATION**

**PSO1) Students can understand the concepts and methods of research.**

**PSO 2) Students are able to develop research proposal and can work with problems.**

**PSO3) Students become aware about the computer application in research.**

**PSO4) Students know the software's and its application in research.**

**PSO5) Students learn to use various research methods for their research work.**

**PSO 6) Students can come to certain conclusion after completing the research work.**

**PSO7) Students can continue their research work for further or post-doctoral research**

**After successful completion of the Ph.D. course in EDUCATION**

**The students is intended to:**

**CO 1. Develop a logical and reasoning abilities.**

**CO2. Develop thorough understanding of synthesis and characterization of various applications.**

**CO3. Develop various applications of research and its use**

**CO4. Develop a thorough understanding of Review of related sources.**

**CO5. Be Able to solve issues of educational crisis**

**CO6. Understand how to choose problem from Education and research methodologies of social sciences.**



2. To enable students to familiarize with different methods and approaches of educational research.
3. Explain the characteristics of qualitative and quantitative research.
4. Explain sampling procedure and testing hypothesis.
5. Select and explain the method appropriate for a research study
6. Design educational research and use relevant tools, techniques & procedures
7. Explain usage of SPSS and other software for data entry and calculation.
7. Conduct a literature search and develop a research proposal
- 8.To explain the importance of documentation and dissemination of researches in education.
9. Write educational research report and proposal.

### **Course outcomes (COs):**

**Upon successful completion of the course a student will be able to**

<b>CO1</b>	<b>Develops insight underlying concept of research.</b>
<b>CO2</b>	<b>Explain various research methods and sampling techniques.</b>
<b>CO3</b>	<b>Develop research skills of administering research tools and data collection.</b>
<b>CO4</b>	<b>Apply the theoretical knowledge into research work.</b>
<b>CO5</b>	<b>Analyse qualitative and quantitative data, and explain how evidence gathered supports or refutes an initial hypothesis.</b>
<b>CO6</b>	<b>Describe descriptive and inferential statistics techniques.</b>
<b>CO7</b>	<b>Use statistical techniques and software's (SPSS) for data analysing.</b>

### **Unit I-Concept & Types of Research**

Meaning and importance of Research – Types of Research – Selection and formulation of Research Problem – Research Design, Classification of Research, Pure and Applied Research, Exploring or Formulative Research, Descriptive Research, Diagnostic Research/Study, Evaluation research/Studies, Action Research, Experimental Research, Analytical Study of Statistical Method, Historical Research,

### **Unit II –Methods Research**

Surveys, Case Study, Field Studies General Survey of various Methods including Survey Method, Interdisciplinary Method, Case Study Method, Sampling Method, Statistical Method, Observation Method, Interview Method, Schedule Method, Questionnaire Method, Documentary Method, Library Method, Historical Method and Scientific Method.

Characteristic Features of Scientific Method; Empirical Verifiable, Cumulative, Self - Correcting, Deterministic, Ethical & Ideological neutrality (Value Free), Statistical Generalizability.

**Unit III - Data Collection and Data Analysis**

Collection, Objectives and Classification of Data, Aims, Methods and Objects of Tabulation of Data, Forms and Processes of Interpretation and Presentation of Data.

Primary, Secondary and Tertiary Data. Construction and adaptation of instruments, administration of questions and tests, Tabulation of data. Data organization in SPSS & Excel, Graphical representation of data.

Definition and Aims of Content Analysis, Problems of Content Analysis, Computer and Content Analysis Discussion and Interpretation of results, Testing of Hypothesis: Logical and Statistical Techniques.

**Unit IV: Report Writing**

Locating Information on a Topic of Interest, Acquiring Copies of Articles of Interest, The Nature of Scientific Variables, Conceptual Versus Operational Definitions of Variables, Levels of Measurement, Various Paradigms, The Basic Format for a Research Report, Identification of the Parts of a Research Report, Citation and Referencing Styles, Essentials of Report Writing, Aids for Writing Good Research Report.

**Paper-II - Research advances in the field of Education ( 4 Credits)**

**COURSE OBJECTIVES -**

**On completion of the course the student will be able to:**

1. Understand the Quality management in higher education
- 2.Explain the development in the field of primary and secondary Education.
- 3.Explain the development in the field of higher and Teacher Education
- 4 Understand National Curriculum Framework (2005)
- 5.Explain Various Policy and their implementation.
- 6.-Explain support of NGO and Government for research.

**Course outcomes (COs):**

Upon successful completion of the course a student will be able to

CO1	Quality management in higher education
CO2	Understand the development in the field of primary and secondary education.
CO3	Understand the development in the field of higher and teacher education.
CO4	Explain National curriculum framework(2005).
CO5	Explain various policy and their implementation
CO6	Understand support of NGO and Government for conducting research.

1. Higher Education in the context of Globalization, Total Quality Management in Higher Education.
  2. Developments in the field of Education (primary and secondary)
    - Right to Education Bill
    - Rashtriya madhyamik Siksha Abhiyan
  3. NCF-2005,
  4. Development in the field of Education (Higher & Teacher Education)
    - Teacher education Curriculum
    - NCFTE – 2009, 2015.
    - National Knowledge Commission
    - Delor’s Report
4. -. Issues for Policy and Practice.
- Government and NGO Support for Research

**Paper-III - Computer Applications in the field of Education ( 4 Credits)**

**COURSE OBJECTIVES-** After completion of the course, student will be able to:-

1. Develop awareness about uses of computer technology and it’s need in teaching, learning, training and research.
2. To develop various skills of the use of Internet in education.

3. To make them understand the integration of Information Communication Technology in educational research
4. Know how Internet surfing is beneficial to acquaint with the latest development.
6. Develop various skills to use computer technology for sharing of information, understand the process of locating the research studies available in the Internet and use of online journals and books,

### Course outcomes (COs):

Upon successful completion of the course a student will be able to

<b>CO1</b>	<b>Define the uses of computers in teaching, learning, research and evaluation</b>
<b>CO2</b>	<b>Develop various skills in the use of Internet in education</b>
<b>CO3</b>	<b>Discuss about the various aspects' multimedia development in education.</b>
<b>CO4</b>	<b>Basic knowledge of computer supplements them in their research work.</b>
<b>CO5</b>	<b>Make them understand the integration of Information communication technology in educational research.</b>
<b>CO6</b>	<b>Able to locate the research studies available in the Internet and use of online journals and books,</b>

Computer and Internet basics; Introduction and need of Computers, Operating system and basics of Windows, User Interface, File management, File Transfer (ftp ,WSftp), Difference between presentation and document, introduction to Notepad, MS-Office word, MS-Excel, Power Point, Opening Documents and Closing documents, introduction to Paint and Photoshop. Computer Communication and Internet, Electronic mails, Communication on Internet, Surfing the Internet.

### Tool Construction & Its Standardization

Item writing, item analysis

1. Validity, reliability
2. Usability and objectivity
3. Norms reference and criterion reference

**Paper-IV - Practicum** ( 4 Credits)

**Preparation of Research Proposal and Presentation / Seminar** (4 Credits)

**Course outcomes (COs):**

Upon successful completion of the course a student will be able to

<b>CO1</b>	<b>Define steps of research.</b>
<b>CO2</b>	<b>Understand appropriate selection of tool or prepare tool.</b>
<b>CO3</b>	<b>Write proposal for research.</b>
<b>CO4</b>	<b>Write Research paper for Journal</b>
<b>CO5</b>	<b>Paper presentation in seminar</b>
<b>CO6</b>	<b>Participating in various workshop, seminar.</b>

1. Identification of Problem
2. Drafting of research proposal under the supervision of Supervisor
3. Organization of the seminar, Symposium in the department Level

**1 Types of Scientific Communications.**

**2 Importance of publishing research papers.**

**3 Publishing Research paper :**

- a) Preliminaries, Format, Choosing Journal
- b) Title, Running Title
- c) Authors: Single and Multi authorship
- d) Writing Abstract
- e) Introduction section
- f) Materials and Methods Section
- g) Result Section
- h) Figures: Design Principles, Legends, Table components, Graphs: Types, Style, Tables v/s Graph
- i) Discussion Section: Format, Grammar Style, Content.
- j) Acknowledgements
- k) References: Different Styles
- l) Selecting Keywords
- m) Communication with the Editor, Handling Referees' Comments, Galley Proofs

**5. Writing Review Articles**

**6. Preparing and Delivering of Oral and Poster Presentations**

**7. Avoiding Plagiarism**

Each student will submit a review report on any general topic of subject or area of interest in subject