

# **HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)**

Website -[www.durguniversity.ac.in](http://www.durguniversity.ac.in), Email - [durguniversity@gmail.com](mailto:durguniversity@gmail.com)



## **Ph.D. Course Work Syllabus**

### **EDUCATION**

**Session 2020-21**

# **Syllabus for Ph.D. Course Work in Education**

## **Unit – I Educational Research**

- Educational Research as a scientific Process: Meaning, need and nature of educational research, steps of research process.
- Types of educational research: historical, experimental and descriptive
- Qualitative and Quantitative Research
- Research Process
- Criteria for good research Planning of Research
- Selection of a problem for research.
- Formulation of the selected problems.
- Research Questions.

## **Unit – II Related Literature and Hypothesis**

- Role of related literature in educational Research.
- Literature search procedure. • Sources of literature.
- Planning of review work.

## **Hypothesis Formation**

- Definition
- Characteristics
- Classification
- Statement of Hypothesis
- Testing of Hypothesis
- Concept of level of significance
- Degree of Freedom
- One tailed test and two tailed test.
- Types of Error – Type 1 and Type II

## **Unit – III Sampling and Data Collection Sampling**

- Population and sample • Definition and difference.
- Importance of sampling
- Sample size • Sampling Error
- Preparing a questionnaire
- Test standardization Data Collection
- Type of data

- Methods and techniques of data collection
- Primary and Secondary Data

#### **Unit – IV Data Analysis**

- Parametric and Non Parametric Statistics
- Measures of Central Tendencies
- Percentile
- Correlation
- t – Test
- Chi – square
- Normal Probability and its applications
- Regression
- Multiple Regression
- Two way and Three way analysis of variance

#### **Unit – V Report writing and computer application**

- Planning of Report writing
- Significance of report.
- Steps of report writing
- Concepts of Bibliography and References. Computer Application
- Applications of Computer in research
- Generating charts / graph in Microsoft Excel
- Power Point Presentation
- Use of SPSS in Educational Research

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