



**NABAKRUSHNA CHOUDHURY CENTRE FOR DEVELOPMENT STUDIES**  
**Bhubaneswar – 751013**

**(ICSSR Research Institute in Collaboration with Govt. of Odisha)**  
**Phone: 0674-2301094 Fax: 0674-2300471 E-mail: ncds\_bbsr@dataone.in**

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*Training Course in*  
**Research Methodology for Ph.D Students**  
**(March 11 to 20, 2013)**

*Sponsored by*  
**Indian Council of Social Science Research, New Delhi**

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## **Introduction**

It is to a large extent the case that social science research by teachers in colleges/universities, other independent young scholars and, above all, by those pursuing doctoral research – while being fairly well-motivated is often handicapped by relative lack of methodological skills. This very often adversely affects the analytical depth and hence quality research. Surprisingly, training courses on research methodology for social science research are conspicuously absent not just in the state of Odisha but, one may say, in most parts of the country. In effect, what happens in effect is that young social science researchers are more or less self-taught in research methodology.

Recognizing this need, Nabakrushna Choudhury Centre for Development Studies, Bhubaneswar (NCDS) is organizing a ten days training course in Research Methodology and Computer Applications for Social Science Research from March 11 to 20, 2013 with the financial assistance received from Indian Council of Social Science Research, New Delhi.

The objective of this course is to provide a broad-based exposure to certain key, often used methodological aspects of social science research so as to bring about an improvement in the analytical capacity, discipline and rigour in carrying out social science research, as well as to encourage methodological innovations in research and analysis.

The course is mainly designed for doctoral students pursuing research in social sciences and accordingly preference shall be given to scholars registered for their Ph.D degree in Indian universities and national level research institutes.

## **Course Contents**

### **Quantitative Research Methodology**

#### **UNIT-I Research: Nature & Concept**

- Nature of Scientific Methods and its Application to Social Phenomenon

- Nature, Importance and Scope of Research
- Types of Research: Historical, Descriptive, Analytical, Experimental, Interdisciplinary, Evaluative, Participative and Action Research
- Concept in Research: Variable, Attribute, Universe, Sampling, Hypothesis, Measurement and Control.

#### **UNIT-II Research Process and Sampling**

- Steps in the Process of Research- Problem Selection, Formulation and Planning, Field Investigation, Data Editing & Classification, Data Processing and Analysis, Report Writing.
- Problem formulation: Identification of Probable issue for research, Selection of Specific Research Issue, Formulation of Objectives, Clarifying the Objectives.
- Probability Sampling: Simple Random Sampling, Proportionate and Disproportionate Stratified Random Sampling, Cluster Sampling
- Non-Probability Sampling: Accidental Sampling, Quota Sampling, Purposive Sampling, Snowball Sampling

#### **UNIT-III Hypotheses, Methods and Tools of Data Collection**

- Hypotheses: Concept of Hypotheses, Testing of Hypotheses.
- Tool of Data Collection: Primary & Secondary, Observation, Interview Schedule, Questionnaire, Types and Formats.
- Objective, Content and Formats of the Questions: Contingency, Leading, Threatening, Double-Barreled.
- Rating Scales, Matrix Questions and Sequence of Questions

#### **UNIT-IV Research Designs**

- Research Design: Concept and Types
- Experimental study design, logic of Experimentation, Causation and Control, Randomization and Matching Internal Validity.
- Qualitative and Quantitative Research Designs- Grounded Theory, Case Study, Ethnography and Phenomenology
- Other Research Approaches Supportive to Social Research: Action Research; Participatory Research (RRA/PRA/PLA).

#### **UNIT-V Statistical Analysis**

- Descriptive Statistics: Measurement of Central Tendency, Dispersion, Skewness, Kurtosis, Regression and Correlation
- Measurement of Correlation: Karl Pearson's Correlation and Rank Correlation
- Statistical Inference: Point and interval estimates, Parametric and Non-Parametric Test (Chi-Square, Test of Differences, Significance and Freedom).
- Analysis of Variance and Co-Variance: One way and two way classification

## **Qualitative Research Methodology**

### **UNIT-I**

Concept of Qualitative Research vs Quantitative Research, Interpretive vs Positivist Paradigm, History of Qualitative Research, Epistemological Background, Emic & Etic Perspective, Schools of thought in Qualitative Research – Ethnographic, Ethno-methodological, Phenomenological; Research Design, Problem formulation: Identification, Probable Issue for Research, Selection Specific Research Issue, Formulation of Objectives, Clarifying the Objectives, Research Questions, Entering into the Field & Rapport Building.

### **UNIT-II**

Logic: Inductive & Deductive Inferences, Propositions, Premise & Conclusion, Categorical Statements and Inferences, Syllogism, Aristotelian Square of Opposition, Logical Fallacies.

### **UNIT-III**

Critical Pedagogy & Qualitative Research (Bricolage), using literature in Qualitative research, Content Analysis, Narrative Inquiry, Discourse Analysis, Oral History, Analyzing Talk, Conversation, Text & Genres, Construction and Understanding of Texts (Narrative & Hermeneutic Analysis).

### **UNIT-IV**

Ethnographic Study, Braiding narrative Ethnography with Memoirs & Creative Non-Fiction, Constructionist Analytics of Interpretive Practice, Observation- Participant, Non-Participant, and Quasi Participant; Verstehen, Focus Group Discussions, Interviews, Case Study Method.

### **UNIT-V**

Data Analysis using Data Displays, Textual Data Analysis, Triangulation, Flow Charts, Pareto Charts, Ishikawa Charts, Non-Standard Charts, Logical Framework Analysis, In-Depth Analysis, Grounded Theory, Using Computers in Qualitative Analysis, Mixed Method, Documentation & Writing Qualitative Research, Future of Qualitative Research, Ethics of Qualitative Research.

### **Participants**

- Research Scholars
- Social Scientists/College & University Teachers doing their Ph.D

Applications are invited from the interested Ph.D scholars and social scientists pursuing doctoral level research to reach the office of Director, Nabakrushna Choudhury Centre for Development Studies, Bhubaneswar on or before 25 February, 2013. Only short-listed candidates will be informed for participation in the course. Lodging and Boarding will be arranged by the Institute only for participants for the course period. To and fro bus/train fare (second class sleeper) will be provided to outstation participants.

**Registration Fee:** Rs.500.00 to be collected on the spot at the time of Registration for the Course

### **For more details please contact:**

Dr. Rajkishor Meher (Course Coordinator), Phone: 09437004036  
Dr. Shibalal Meher (Joint Coordinator), Phone: 09437386570

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**REGISTRATION FORM**

**Name:** \_\_\_\_\_

**Date of Birth:** \_\_\_\_\_

**Institute/University/College:** \_\_\_\_\_

**Educational Qualification:** \_\_\_\_\_

**Discipline:** \_\_\_\_\_

**Whether registered for any research degree? Yes ( ) No ( )**

**If registered, submit a copy of registration:** \_\_\_\_\_

**Topic of Research:** \_\_\_\_\_

\_\_\_\_\_

**Have you attended similar course earlier: Yes ( ) No ( )**

**If yes, provide details:** \_\_\_\_\_

**Mailing Address:** \_\_\_\_\_

\_\_\_\_\_

**Telephone No./Mobile No.:** \_\_\_\_\_

**E-mail:** \_\_\_\_\_

**Recommendation by Head of the Institution/College/Supervisor:** \_\_\_\_\_

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**Accommodation Required: Yes ( ) No ( )**

**Signature of the Applicant**