

**Training Course on Research  
Methodology and Data Analysis Abilities**

**From 13<sup>th</sup> to 22<sup>nd</sup> December 2018**

**Organized By:**



**Regional Institute of Education-NCERT**

**Ajmer**

**Sponsored by**



**ICSSR**

**at**

**REGIONAL INSTITUTE OF EDUCATION  
AJMER- 305004  
Rajasthan State**

**The training course:**

In the process of quantitative research, the hypothesis formulated at the beginning of the research is to be tested based on the inferential statistical tests to draw the conclusions about the population. There is a need to collect required quantitative data by using appropriate tools viz., tests, rating scales, inventories etc. The collected data is to be verified and validated by cleaning the data. This will help the researcher to prepare the data for analysis, interpretation and testing of hypotheses. The inferential statistical tests used by the researcher can be classified broadly into two categories such as parametric tests and non-parametric tests. A researcher is going to choose appropriate inferential statistical test for testing of hypotheses depending on the sample and its population. To undertake the process of analysis and interpretation of quantitative data as well as testing of formulated hypotheses, the creation of data base file using the appropriate software is needed for the researcher.

The development and application of Computer Technology provided the opportunity for the researchers to handle large quantitative data and to process them in more meaningful way. The Statistical Package for Social Sciences (SPSS) is one of the powerful application software which helps to create, store and process large quantum of data in social sciences. The researchers in social sciences are going to deal with large data require knowing the capabilities of SPSS application software for enhancement of their competencies in data analysis and interpretation. The knowledge and application of basic quantitative research methods and use of SPSS application software in creating database file in computer and its analysis.

**Objectives of the Training Course**

The objectives of the training are to:

- i) To develop skills in quantitative research data management.
- ii) To promote the knowledge and application of basic quantitative research methods.
- iii) To develop skills in using SPSS software package for creating database.
- iv) To promote the abilities in data analysis by using SPSS software package.

**Sub Themes**

1. Scales of measurement
2. Creation of data base files
3. Data cleaning and data validation
4. Creation of tables and classification of data
5. Graphical representation of data
6. Descriptive statistics
7. Correlation & Regression
8. Formulation of hypotheses and its testing
9. Sampling methods
10. Inferential Statistics
11. One sample, two and k-sample tests
12. One way and two way ANOVA & ANCOVA
13. Factorial Analysis
14. Non-parametric tests
15. Computer software for qualitative data analysis

**Who can Apply:** The registered Research Scholars in social sciences from Universities/ Colleges/ higher education institutions and research institutions located anywhere in India can apply. Participants MUST have some experience of working on computers. The attendance for all the ten days in all the sessions is mandatory. TA will be paid only 2<sup>nd</sup> sleeper class for the out station participants on the production of the tickets. The attendance for all the ten days in all the sessions is mandatory.

#### **HOW TO APPLY**

Applications should be sent through proper channel in the format of application given in the institute website by enclosing their Ph.D. registration order copy to **Course coordinator** on or before **5<sup>th</sup> December 2018**.

The completed application be sent through e-Mail to the [principalrieajmer@gmail.com](mailto:principalrieajmer@gmail.com) or [rieajmer@yahoo.com](mailto:rieajmer@yahoo.com)

Application format can be download from the following institute website:

<http://rieajmer.raj.nic.in>

#### **Intake:**

**There is a provision for 40 participants (10 local and 30 out station) only**

**Food and Accommodation:** The institute will provide food and accommodation to the out station participants in the institute guest hostel on sharing basis.

**Regional Institute of Education, Ajmer (RIEM)** founded on 30<sup>th</sup> October 1962, is one of five such institutions established by the NCERT, New Delhi. The RIEM caters to the educational needs of the northern states and union territories of Chandigarh, Delhi, Haryana, Himachal Pradesh, Jammu & Kashmir, Punjab, Rajasthan, Uttar Pradesh and Uttarakhand. The institute is accredited with A+ grade by NAAC.

#### **Indian Council of Social Sciences Research (ICSSR)**

ICSSR has been working in India for promoting research in social sciences. This organization set up its own research institutions for promoting research in social sciences. The ICSSR is an autonomous organization under the Ministry of Human Resource Development (MHRD), Government of India. The ICSSR also funding for capacity building programmes to the faculty engaged in social sciences and also research students in the area of social sciences.

#### **Organizing Committee**

1. **Prof. G. Viswanathappa, Principal and Course Director**
2. **Prof. J.P. Bagchi, Dean of Instruction, RIE Ajmer**
3. **Prof. Nagedra Singh, Dean-Research, RIE Ajmer**
4. **Prof. S.V. Sharma, Professor and Head, DESM & IQAC Conviner**
5. **Prof. Chandrasekhar, Professor and Head, DE**
6. **Prof. V. P. Singh, Professor and Head, DEE & Course Coordinator**
7. **Dr. Albert Horo, Associate Professor and Head, DESSH**

#### **IMPORTANT DATES**

**Last Date for Receiving the Application**

**5<sup>th</sup> December 2018**

**Date for notifying the list of selected candidates**

**in the institute website**

**10<sup>th</sup> December 2018**

**Date of Commencement of Training**

**13<sup>th</sup> December 2018**

#### **Course Director**

**Prof.G.Viswanathappa, Principal  
Regional Institute of Education, Ajmer**

**Phone: 0145-2643671**

**Fax: 0145-2643862**

**E-mail- principalrieajmer@gmail.com**

#### **Course Coordinator**

**Prof.V.P. Singh**

**Professor & Head, DEE**

**Regional Institute of Education,  
Capt. D.P. Choudary Marg, AJMER-305004**

**Mobile No. +91-**

**e-mail: deerieajmer@gmail.com**

**APPLICATION FORM FOR TRAINING COURSE ON RESEARCH METHODOLOGY  
AND DATA ANALYSIS ABILITIES**

1. Name (in block letters):
2. Age: 3. Sex: Male / Female
4. Name of the Department and affiliating university:
5. Provide details of Research (Enclose the copy of Registration letter/order received from the university)
  - a. Date of registration:
  - b. Name and Address of guide
  - c. Subject and Area of Research work
  - d. Title of the Research Study:
6. Full address for communication:
7. Mobile Number and Mail Id:
8. Is accommodation required? Yes / No
9. Provide your working knowledge with computers
  - a. Name of the application software:
  - b. Extend of the ability to use the software:

10. Please explain how you think participation in this training programme on SPSS will benefit you and how it relates to your present research/teaching activities (in about 50-100 words on a separate sheet)

11. Have you attended any similar training programmes earlier? If so, give details:

Date:

Signature of the Candidate

### **Forwarding Authority**

Certified that the applicant Mrs./ Ms. / Mr. \_\_\_\_\_ is a registered research scholar of this university/college/institution. His /her application is hereby forwarded for participation in the above training programme.

Date:

Name, signature and seal of  
Principal/Registrar/Head of Dept. /Guide