



**One Week Capacity Building cum Faculty Development Programme (CBP-FDP) on  
*Advanced Quantitative Methods in Social Science Research*  
(March 03<sup>rd</sup> -08<sup>th</sup>, 2025)**

**Organized by  
INDIAN COUNCIL OF SOCIAL SCIENCE RESEARCH  
NORTH-WESTERN REGIONAL CENTRE  
PANJAB UNIVERSITY, CHANDIGARH**

**About the ICSSR**

The North-Western Regional Centre of the Indian Council of Social Science Research was set up on the Panjab University campus in October 1977. Professor Renu Vig, Vice-Chancellor, of Panjab University, is the Chairman of the Regional Centre and Professor Upasna Joshi Sethi, UIAMS, Panjab University, is the Honorary Director of the Centre. The Centre is housed in an aesthetically and functionally designed commodious building. It has a conference Hall, two seminar rooms and a guest-house. The facilities of the seminar halls in the Complex are provided to Panjab University, Punjab, Haryana, Union Territory of Chandigarh and Central Government departments for holding seminars, conferences/workshops etc.

The Regional Centre is deeply and vigorously involved in promoting research in diverse social science disciplines along with interdisciplinary research. It conducts Seminars, Research Methodology Training Programmes and Lecture Series by Eminent Social Scientists on its premises as well as in other Institutions in the Region. In addition, the Regional Centre encourages similar activities by providing financial support to University Departments and Colleges in the North-Western Region i.e. Punjab, Haryana, Himachal Pradesh, Jammu & Kashmir and the Union Territory of Chandigarh. It also provides financial assistance to research scholars pursuing Ph.D. to consult libraries under its Study Grant Scheme.

The Library of the Regional Centre is located in the A.C. Joshi Library building, Panjab University campus, Chandigarh. The library caters to the needs of research scholars, faculty members of Panjab University and social scientists of the North-West Region of India. The library has a collection of 4607 books and 3789 bound volumes of journals.

**Target Group and Seats**

Teachers from University/ Deemed University Departments, affiliated Colleges and Research Institutions.

**Rationale of the Current Training Programme**

The North-Western Regional Centre of the ICSSR at Chandigarh has been conducting research methodology programmes/faculty development programmes every year. The positive feedback received from the participants over the past several years has encouraged us to extend the scope of our activity further to organise this programme.

The present training programme aims to develop research capabilities among faculty, to turn completed research into publishable material in the form of articles/books by providing a general understanding of the nature and relevance of the research methods. It introduces participants to the essential principles, techniques and processes of qualitative and quantitative research data analysis techniques. In doing so, it deals with various theoretical and methodological issues involved in such inquiry as well as the strategies and techniques such as research design, methods of qualitative data collection, coding and analysis involved in empirical field research.

### Objectives of the Training Programme

- To sensitize the teachers in social sciences about the quality of teaching and research;
- To enhance skill to prepare an appropriate research design, including conducting an overview of literature, formulating research questions, collection of information and analysis;
- To develop the capacity for planning and writing a book/ article;
- To provide prolonged personalized interaction between participants and resource persons.
- To enhance their general, methodological and writing skills.

### Programme Schedule

Three lectures per day of one hour and thirty minutes each. + Review and Assignment work.

### Tentative Course Contents

Date/Day	Review Session	Session-I	Session-II	Session-III	Assignment Work
3-3-2025 (Monday)	9.30-10.00	10.00-11.30	12.00-1.30	2.30-4.00pm	4.00-4.30pm
	Review Session	Inaugural Address	Empathy in Research: Bringing Together the Topic, Respondent and Researcher	Data Analysis and Visualization using Python-I	Assignment Work
4-3-2025 (Tuesday)		Data Analysis and Visualization using Python-II	Regression Analysis & Its Associated Problems: An Explanation through Gretl	Dummies in Regression	
5-3-2025 (Wednesday)		Time Series and Regression Issues- Unit-root and Cointegration	Time Series and Regression Issues- Unit-root and Cointegration	Hypotheses Formulation & Testing Using Open-Source Software: Parametric Tests	
6-3-2025 (Thursday)		Hypotheses Formulation & Testing Using Open-Source Software: Non-Parametric Tests	Bayesian Inference & Its Practice-I	Bayesian Inference & Its Practice-II	
7-3-2025 (Friday)		Theory of Categorical Dependent Variables Models in Regression	Application of Categorical Variables Models in Regression Using Gretl	An Introduction to the NSSO Household Survey Databases	
8-3-2025 (Saturday)		Panel Data Analysis-I	Panel Data Analysis-II	Valedictory Address & Distribution of Certificates	

**Registration Fee: Rs.1000/- for Teachers or equivalent (General) and Rs.500/- SC/ST/PHC**

**Hospitality** Lunch and tea will be provided to all participants during the course.

**Online Last Date for Registration: February 27, 2025 at [www.icssrnwrc.org.in](http://www.icssrnwrc.org.in)**



**REGISTRATION FORM  
CAPACITY BUILDING PROGRAMME (CBP - FDP)  
ON  
RESEARCH METHODOLOGY & DATA ANALYSIS  
(MARCH 03-08, 2025)**

Website: [WWW.ICSSRNWRC.ORG.IN](http://WWW.ICSSRNWRC.ORG.IN)

PHOTOGRAPH

Name \_\_\_\_\_  
(IN CAPITAL LETTERS)

Date of Birth: \_\_\_\_\_ Gender: Male  Female

Designation: \_\_\_\_\_ Subject \_\_\_\_\_

Nature of Job: (Tick) Regular  Contractual  Self Finance

Date of Joining .....

Qualifications:  UGE NET + PHD  UGC NET

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

Correspondence Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Mobile: \_\_\_\_\_

E-mail: \_\_\_\_\_ (Please write neatly in CAPITAL LETTERS)

Category:  SC  ST  BC  PHC  GENERAL

Teaching Experience: (in years) \_\_\_\_\_

Research Experience: (in years) \_\_\_\_\_

Name (s) of the CBP-FDP Training Programme(s) (with dates) if, previously attended by the applicant: \_\_\_\_\_

Dated: \_\_\_\_\_ Signature of the Applicant

**RECOMMENDATION**

Certified that the information given by the applicant is true and the applicant will be relieved in time to participate in the above CBP-FDP programme, if selected.

Dated:  
(Office Seal)

**Chairperson of the University Department/  
Principal of the College/Head of the Institution**

(Photocopy of the registration form can be used)

**IMPORTANT INSTRUCTIONS**

- i) The applicant must submit a photocopy of SC/ST/PHC certificate as issued by competent authority
- ii) Duly filled in Registration Form recommended by the Chairperson of the University Department/Principal of the College/Head of the Institution may be submitted to the Honorary Director, ICSSR North-Western Regional Centre, Panjab University Sector-14, Chandigarh-160014 latest by March 01, 2025 by post. Selected candidates will be informed through e-mail / telephone by March 01, 2025 (Evening). Incomplete registration form in any respect will not be considered. The programme shall be undertaken in physical mode. In case of any query, Sh. Avtar Singh may be contacted at 0172-2534577, 98762-96283 (only between 9.00 AM to 5.00 PM).
- iii) The selected candidate may bring leaving certificate from the employer and Laptop for hands on experience.

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**Chief Patron**

**Prof. Renu Vig**

Chairperson, ICSSR-NWRC & Vice-Chancellor,  
Panjab University, Chandigarh

**Course Director**

**Prof. Upasna Joshi Sethi**

Honorary Director  
ICSSR NWRC. Phone: 0172-2534577

**Course Coordinator**

**Dr. Nitin Arora**

Associate Professor  
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