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VISVA-BHARATI

Santiniketan

41st Two-Week National Workshop on

Use of **R** in Research and Development

11 - 23 January 2027



Organised by:

A.K.Dasgupta Centre for Planning and Development

(A Centre sponsored by the NITI AAYOG, Govt. of India)

Visva-Bharati, Santiniketan

Venue: 33, Purbapalli, Santiniketan, Visva-Bharati, Bolpur, Birbhum, West Bengal



Use of R in Research and Development



11 – 23 January 2027

Email application

Course schedule

Fillable registration form

Call 8250895078

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About the Workshop

Research in the contemporary world is increasingly data-driven, with researchers working with diverse forms of data across disciplines. R, a free and open-source statistical software, provides a powerful and flexible platform for data management, statistical analysis, econometric modelling, visualization and empirical research.

The 41st Two-Week National Workshop on “Use of R in Research and Development” is designed to equip participants with practical skills for handling, analysing and interpreting research data using R. The workshop will cover a range of statistical and econometric techniques and demonstrate their application in real-world research problems.

A major emphasis of the workshop will be on learning by doing. Participants will independently perform data-handling and analytical exercises using R, enabling them to develop confidence in applying statistical and econometric methods to their own research. Each topic will be supported by appropriate datasets, demonstrations and hands-on exercises. The workshop will thus provide a practical platform for strengthening quantitative research skills and promoting the effective use of R in research and development.

Objectives

- Develop practical skills in R programming and data management.
- Apply R for data cleaning, analysis and visualization.
- Develop skills in statistical analysis and econometric modelling.
- Introduce multivariate, panel-data and limited dependent-variable models.
- Develop practical understanding of causal inference and policy evaluation.
- Introduce time-series analysis and robust inference techniques.
- Enable participants to apply R to their own research datasets and research problems.
- Promote reproducible and research-oriented data analysis.

Learning Outcome

By the end of the workshop, participants will be able to use R for data management, statistical analysis, econometric modelling, visualization and empirical research, and apply these techniques to their own research and development activities.

Key Features



Practical R Training

Hands-on exercises in R programming and quantitative data analysis.



Research-Focused Learning

Applications relevant to Economics, Social Sciences and interdisciplinary research.



Statistical & Econometric Tools

From descriptive statistics and hypothesis testing to regression, panel data, causal inference and time-series analysis.



Own-Data Application

Participants will have the opportunity to apply R to their own research datasets.



Research-Ready Outputs

Emphasis on analysis, visualization, interpretation and presentation of empirical results.

Important Information Regarding Registration

Applicants have to mail soft copies or hard copies of application. Applicants should mention their contact address, telephone number, e-mail address and institutional affiliation. The application to be addressed to **Prof. Bidhan Chandra Roy**, Chair Professor, A.K.Dasgupta Centre for Planning & Development, Visva-Bharati.

Application must reach pa2cp.akdc@visva-bharati.ac.in within 04.01.2027

Visit website for other programmes information:

<https://www.visvabharati.ac.in/home/akdasguptacentre/>

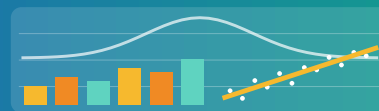
Who Can Participate?

Faculty Members | Research Scholars | Postgraduate Students | Researchers | Professionals





COURSE SCHEDULE

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Day	Date	Theme	Major Topics
Day 1	11 Jan	R Foundations & Data Management	Introduction to R; data structures; importing/exporting data; data entry; cleaning, coding and manipulation
Day 2	12 Jan	Descriptive Analysis & Visualization	Descriptive statistics; data exploration; data properties; correlation; exploratory data analysis; data visualization
Day 3	13 Jan	Statistical Inference & ANOVA	Hypothesis testing; Z-test; t-test; chi-square test; ANOVA; CRD, RBD and LSD
Day 4	14 Jan	Regression Analysis	Simple and multiple regression; OLS; dummy variables; model diagnostics; robust inference
Day 5	15 Jan	Multivariate Analysis	PCA; factor analysis; cluster analysis; discriminant analysis
	16-17 Jan	WEEKEND BREAK	
Day 6	18 Jan	Limited Dependent Variable Models	Linear Probability Model; Logit; Probit; marginal effects; predicted probabilities
Day 7	19 Jan	Panel Data Econometrics	Pooled OLS; Fixed Effects; Random Effects; Arellano-Bond; robust inference
Day 8	20 Jan	Causal Inference & Policy Evaluation	Instrumental Variables; 2SLS; Difference-in-Differences; treatment effects
Day 9	21 Jan	Time-Series Analysis	Stationarity; unit-root tests; ARIMA; cointegration; ECM; ARDL; forecasting
Day 10	22 Jan	Research Application & Integration	Own-data application; empirical analysis; visualization; reporting; reproducible research
Day 11	23 Jan	Saturday	Valedictory Programme

Registration fee:

- Rs.3000/- for Faculties attending at A.K.Dasgupta Centre (offline mode).
- Rs.2000/- for Faculties for attending (Online mode).
- Rs.1000/- for Research Scholars and other participants (Online).
- Rs.1500/- for Research Scholars and other participants (Offline).

- Registration Fee to be paid online.
- Details of payment link will be provided after selection.
- The workshop has been designed to be held in "Hybrid mode".
- The order of participation/selection will be on last come first out basis.
- Timing of the workshop: 2.30 p.m. to 7.30 p.m.
- Participants attending offline will have to bear their own travel, boarding and lodging expenses.

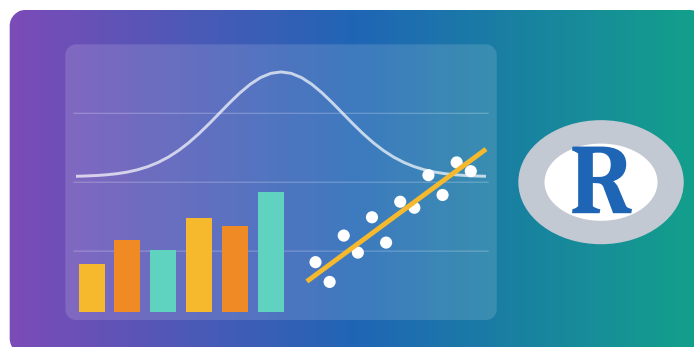
Important Dates

Last Date for receiving application: 04/01/2027

Letter of Acceptance: 07/01/2027

Email for Correspondence: pa2cp.akdc@visva-bharati.ac.in

Call to Sri Daya Shankar Kushwaha, Ph- [8250895078](tel:8250895078)





REGISTRATION FORM

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(fillable: click a field and type, tick the boxes, then Save or Print)

1. Name (in capital letters)

2. Address (Institution)

3. Educational Qualifications

4. Gender

Affix passport
Size Photo

5. Address (Home)

6. Marital Status

7. Faculty/ Scholar/ Student/ Other (specify)

8. Topic of the research (if any)

9. Area of specialization (if any)

10. Status of Research work (Please tick if applicable)

- | | | | |
|---|---|---|---|
| ☐ Preparing Synopsis | ☐ Preparing Tool | ☐ Writing Report | ☐ Reviewing Literature |
| ☐ Collecting Data | ☐ Thesis | ☐ Analysing Data | ☐ Other |

11. Department

12. Name of the Institution and/or University (M.Phil/ Ph.D. enrolled)

13. Name of the Supervisor and Contact number, e-mail

14. Mailing address and Phone no.: Address

Mobile

WhatsApp No.

Email

I am hereby submitting my application form along with the photocopy duly forwarded by Head/Dean/Department/Faculty:

Head/Dean/Department/Faculty

Date

Place

Signature of Applicant

