



NATIONAL WORKSHOP ON R PROGRAMMING

**For Pursuing Academic Curriculum Proposed
by Vidyasagar University and for Research
Data Analysis**

12th -13th February, 2025



**Organized by
Department of Geography
In Association with Internal Quality Assurance Cell**

Maharaja Nandakumar Mahavidyalaya
(A Govt. Aided General Degree College, Affiliated to Vidyasagar University)
Venue- College Auditorium



About Maharaja Nandakumar Mahavidyalaya

Maharaja Nandakumar Mahavidyalaya was initially established on 6th August, 2007, after getting approval from the Higher Education Department, Government of W.B. and the affiliation from Vidyasagar University, Medinipur and running in a building of District Child Welfare Department. Later it was shifted to its own Campus on the 2nd January, 2015, at Bhabanipur, Kalyanchak. It is now situated by the side NH116B, only 2Km away from Nandakumar Island. At present it has become one of the leading burgeoning colleges under Vidyasagar University. This college offer graduation in both Science and Arts Honours and General courses. Now the college has been included under Sections 2F and 12B of UGC Act. The college also has a unit of Netaji Subhas Open University which offers 7(Seven) PG course programmes.

About R Programming

Language R is an open source programming language and a free statistical software designed and highly suitable for in-depth data analysis, Visualization, data manipulations, data modelling, forecasting and making inferences. R runs on all the major Operating System platforms. R is one of the most sought-after software for conducting data science research and is also highly popular among the academic community, besides Python.

Workshop Objectives/Outcomes

Vidyasagar University has included Statistical Computing and R Programming in Undergraduate Geography Honours, 3rd semester under CCFUP-NEP programme as one of the Skill Enhance Course (SEC). in view of this, the college is hosting hands on training



on statistical computing with R which will be beneficial for the faculty members in conducting theory and practical sessions.

The main objectives of this workshop are:

- To familiarize participants with the basics of R programming.
- To explore advanced functions and applications of R in data analysis.
- To equip participants with the skills required to use R software effectively for research purposes.
- To engage faculty and students in a practical, hands-on learning environment.

Workshop Methodology

The workshop shall be conducting in hybrid mode, hands on practice sessions in R, covering various aspects of the tools and techniques that the software provides its users.

Topics to be covered in the Workshop

- Introduction to Basic of R programming, R and R studio
- Data Structures in R: vectors, lists, arrays, matrices, data frames, etc.
- Data manipulation techniques: importing and exporting data in R
- Basic Data visualization,
- Various statistical techniques and Functions in R
- Data filtering and summary methods in R
- Execution of different statistical tests in R
- Building graphics and run Bivariate Correlation & regression



Resource Persons/Speakers

- 1) **Dr. Subhajit Sarkar**, Visiting faculty, Department of Geography, North-Eastern Hill University, Shillong, Meghalaya
- 2) **Dr. Shreya Bandyopadhyay**, Assistant Professor, Department of Geography, Maharaja Nandakumar Mahavidyalaya, Purba Medinipur, West Bengal

Organizing Committee

Chief Patron- Sri Sukumar De,
Hon'ble President, Governing Body

Patron- Dr. Nirmalendu Bikas Sinha,
Principal

Convener- Dr. Shreya
Bandyopadhyay, Assistant Professor,
Department of Geography

Organizing Secretary- Mr. Nandan
Manna, Geography Department

Joint Organizing Secretary- Mr.
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- 4) Dr. Goutam Jana, Sanskrit Department
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- 8) Dr. Abu Nasim, History Department
- 9) Mr. Debajyoti Shit, Bengali Department
- 10) Mrs. Suparna Mondal, Sanskrit Dept.
- 11) Ms. Alisha Subba, History Department

Pre- Requisite

A Desktop/Laptop with internet connection will be a requisite for attending this workshop. Participants are advised to download **R and R-Studio software** from the website.

- For Downloading R and R studio softwares, participants can use the following link-



For R: [Download R-4.4.2 for Windows. The R-project for statistical computing.](#)

For downloading R studio Desktop: [RStudio Desktop - Posit](#)

- For guidance to install R and R studio follow the following video- [Bing Videos](#)

Registration Details

Each Participant has to submit the GOOGLE FORM along with pay **Rs 500/-** (Five hundred rupees only) as registration fee. Link: <https://forms.gle/Y2wdgP6tDcWyydeq8>

Bank Details for fee submission:

Beneficiary Name-Maharaja Nandakumar Mahavidyalaya	Branch Name- Kalyanpur
Name of Bank- State Bank of India	IFSC Code-SBIN0008372
Account No.- 34968930580	MICR Code-721002063

- After submission of registration fee, attach the receipt in the Google Form

Selection of participants:

Selection of participants will be based on first- come- first serve basis.

Application Deadline: 08th February, 2025

Contact Details

Dr. Shreya Bandyopadhyay

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