

**DEPARTMENT OF MATHEMATICS, RAJIV GANDHI UNIVERSITY,
RONO HILLS, DOIMUKH, ARUNACHAL PRADESH**

STUDENT DEVELOPMENT PROGRAMME

On

BASICS OF R-PROGRAMMING

(23rd - 29th September, 2021)

REPORT

The Department of Mathematics, Rajiv Gandhi University organized an **ONLINE STUDENT DEVELOPMENT PROGRAMME** on "**BASICS OF R PROGRAMMING**" for students during 23-29 September, 2021. The programme was organized in collaboration with Spoken Tutorial Project, IIT Bombay. The workshop was specifically meant for students of colleges and universities, and research scholars. The main objective of this workshop was to impart basic knowledge of R Programming language and to strengthen the technical skills of the students for research and career enhancement.

PARTICIPANTS

There was a good response from the Students and Scholars of Rajiv Gandhi University.

Sl. No.	Name of Participants
1.	Nabam Rikam
2.	Basit Rrahman
3.	Rubu Nikang
4.	Samcha Hangphuk
5.	Ha Yata
6.	Crescent Khatsin
7.	Dawadorjee Sona
8.	Sili Doyom
9.	Bhuban Chandra Deuri
10.	Rinchin Drema
11.	Sode Kakki
12.	Onima Nyising
13.	Pranjit Borah
14.	Drema Naksang
15.	Yaya Modi
16.	Eny Tayang
17.	Ranjan Chetry
18.	Rusick Bimpak
19.	Jumki Bui
20.	Banashree Khanikar
21.	Minkar Loyi
22.	Tarh Agu
23.	Kero Maling

24.	Pane Natung
25.	Dipali Ttanti
26.	Joram Daniel
27.	Taw Yame

SESSIONS

The workshop was carried out in online distance education mode which is highly conducive for the participants to learn from their own residence. The workshop had altogether 20 video lecture sessions. The sessions were delivered via video lessons created by Spoken Tutorial team. The lessons covered all the basic topics in R Programming. The lessons were very thoroughly presented with the help of hands-on programs. The presented lessons were followed by a series of assignments, based on the topics taught.

An online test on R Programming was also conducted for those participants who were willing to appear for one.

OUTCOMES

The participants showed positive response toward the SDP. They actively participated in the sessions and submitted their assignments before due date. Further, most of the participants also turned up for attempting the online R-test, remotely conducted by IIT Bombay, though the test was not mandatory. A training completion certificate was given to all the successful participants of the test by Spoken Tutorial Project, IIT Bombay.

CONCLUSION

The workshop was beneficial to all the participants. All the participants were provided with a Participation certificate by the organizers.

The workshop initiated by Department of Mathematics, Rajiv Gandhi University was made possible due to the online repository of knowledge created by Spoken Tutorial. Such online repository is tremendously advantageous in the current times of COVID-19 pandemic, when there is a push toward online learning and teaching. Several educational institutions can benefit from ready-made video lessons thereby making it easier to conduct online classes. In addition to video lessons Spoken Tutorial has also been helpful in conducting tests and distribution of Certificates for participation.

Convener

Dr. Nipen Saikia
 Associate Professor
 Department of Mathematics
 Rajiv Gandhi University.

Secretary

Mrs. Dakjum Eshi
 Assistant Professor
 Department of Mathematics
 Rajiv Gandhi University

PROGRAMME SCHEDULE

Day	10 am-11 am	11.30am-12.30 pm		2.30 pm- 3.30 pm
Day 1	Overview of R and R-Studio	Installing R and R-Studio		Introduction to Basics of R
Day 2	Introduction to Data Frames in R	Introduction to R studio		Introduction to R script
Day 3	Working Directories in RStudio	Indexing and Slicing Data Frames		Creating Matrices using Data Frames
Day 4	Merging and Importing Data	Data types and Factors		Lists and its Operations
Day 5	Plotting Histograms and Pie Chart	Plotting Bar, Charts and Scatter Plot		Introduction to ggplot2
Day 6	Aesthetic Mapping in ggplot2	Data manipulation using Dplyr Package		More Functions in dplyr Package
Day 7	Pipe Operator	Conditional Statements		Functions in R

B
R
E
A
K