

One Day Workshop on R Programming Language for Teachers 9th November 2019

Human Resource Development Centre (HRDC), Integral University one of the Remote Centre of IIT Bombay organised a one day workshop on **R Programming Language for Teachers** on Nov 9, 2019, for faculty members of Integral University and institutes around the surrounding areas of the University.

The participants were invited for registration on NMEICT website (<https://www.it.iitb.ac.in/nmeict/>) by circulation of messages and notice. The workshop received warm response and was conducted in hybrid mode with synchronous live interaction from experts at IIT Bombay, followed by demonstration and hands on session by workshop coordinator Mr. Ranjan Kumar, who was previously trained by IIT Bombay for the workshop.

The workshop started with welcome of participants by Remote Center Coordinator Dr. Anup K Sirbaiya, followed by live interactive session with experts from IIT Bombay, **Prof. Radhendushka Srivastava, Prof. Kannan M. Moudgalya**, FOSSEE and Spoken Tutorial Teams, IIT Bombay Indian Institute of Technology Bombay. This was followed by post lunch session with hands on workshop where participants learnt about various topics related to R programming and application like Introduction to basics of R, data frames in R, RStudio, R script , Working Directories in RStudio, Indexing and Slicing Data Frames, Creating Matrices using Data Frames, Operations on Matrices and Data Frames, Merging and Importing Data, Data Types and Factors, Lists and its R Operations , Plotting Histograms and Pie Chart , Plotting Bar Charts and Scatter Plot, Introduction to ggplot2, Aesthetic Mapping in ggplot2, Data Manipulation using dplyr Package, More functions in the dplyr Package, Pipe Operator, Conditional Statements, Functions in R etc.

Workshop had total 13 registered participants from within and outside Integral University and institutes around the surrounding areas of the University, of which 9 completed the workshop after passing the required activities and assignments.

To keep the participants actively engaged and post workshop followup, a whatsapp group was created for all the participants and coordinators.

The details of the workshop can be found at:

<https://www.it.iitb.ac.in/nmeict/workshopContent.html?workshopid=Z7PLmVRto9HRdFsg5ld8Rw&category=UubpVTjA3FS-DQx8uW4rlA>