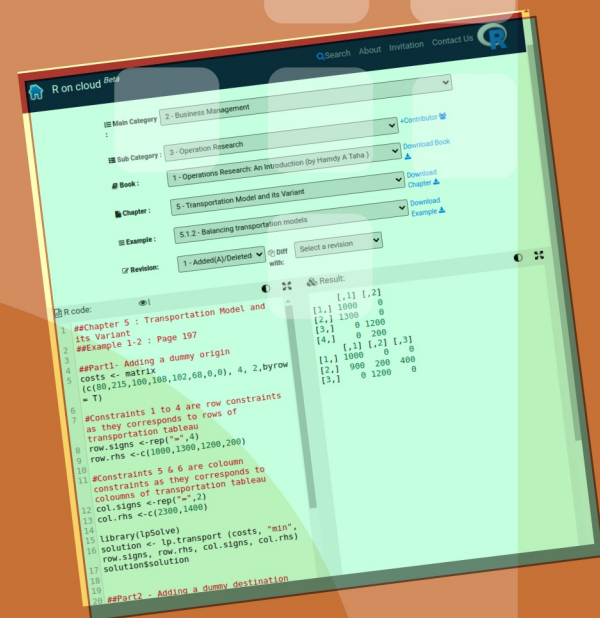




Workshop on data analytics using R

5 March 2022

One day, online, interactive,
hands-on sessions for 6 hours



The FOSSEE (Free/Libre and Open Source Software for Education) project at IIT Bombay (<https://fossee.in>) has been promoting R, and other FLOSS, such as Scilab, Python, OpenFOAM, eSim, Osdag, OpenModelica, R, Drupal and Linux, and open-source hardware, such as Arduino and OpenPLC.

The R workshop is organized by the Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) along with the FOSSEE and Spoken Tutorial Projects. These projects are funded by NMEICT, Ministry of Education, Govt. of India.

Course content

- Data types - Discrete data and Continuous Data
- Data analysis for discrete data
 - Univariate frequency/probability distribution
 - Bar Plot and Pie Chart
 - Bivariate discrete data analysis
 - Cross Tabulation (frequency/probability)
 - Stack Bar Plots
 - Testing of hypothesis
 - Chi-squared test
 - t-test
 - Confidence interval
- Data analysis for continuous data
 - Histogram
 - Mean, standard deviation, range, skewness and kurtosis
 - Bivariate continuous data
 - Correlation
 - Z-score and t-statistic
 - Testing equality of two means
 - Regression
- Data summary using skimr package

The R workshop will be useful for the below discipline:

Medical, Social Science, Humanities, Engineering, Science, Commerce, BCA, MCA

Benefits of the Workshop

On successful completion of the workshop, participants will be able to:

- Learn basic R programming
- Learn to perform data visualization
- Learn how to do basic statistical analysis using R
- Certificate for attending the R workshop

For more details visit:

<http://www.it.iitb.ac.in/nmeict/announcements.html>



Any queries related to R:

contact-r@fossee.in

Any queries related to spoken tutorials on R

[Spoken Tutorial Forums](#)

For general queries:

eoutreach@cse.iitb.ac.in



The FOSSEE project is funded by the National Mission on Education through ICT, MoE, Government of India.