

BCM College workshop - September 2021

1. Introduction to R (1hr 30m) - Rasin R S

- RStudio tool overview
 - Libraries: Installation, load, dependencies
 - Data types: (num, chr, list), class, data frames
 - Basic operations: Some useful statistical functions, control flow
 - Import/export: text, csv, excel
 - Basics of dplyr, ggplot2 packages
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2. R package dplyr (1hr) - Rakesh Poduval

- Features with examples
 - Dessert: data.table, dtplyr
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3. R package ggplot2 (1hr) - Rakesh Poduval

- Features with examples
 - Dessert: plotly
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4. Analysis of student's data (1hr 30m) - Rakesh Poduval

- Data preparation: challenges, pre-processing, transformations, filters
 - Analysis and interpretations
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5. R Packaging (1hr 30m) - Rakesh Poduval

- Basic structure, namespace, dependencies
 - Build a simple "hello world" package
 - Build package "BCM" with the data provided
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6. Introduction to GitHub - Rakesh Poduval - Optional

- Repositories, teams, overview, collaborate with others.
- Create, clone, initial setup with R Studio, pull and push
- Track changes, revert, share.
- Create a team & repository for BCM ?