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

2. R package dplyr (1hr) - Rakesh Poduval

- Features with examples
- Dessert: data.table, dtplyr

3. R package ggplot2 (1hr) - Rakesh Poduval

- Features with examples
- Dessert: plotly

4. Analysis of student's data (1hr 30m) - Rakesh Poduval

- Data preparation: challenges, pre-processing, transformations, filters
- Analysis and interpretations

5. R Packaging (1hr 30m) - Rakesh Poduval

- Basic structure, namespace, dependencies
- Build a simple "hello world" package
- Build package "BCM" with the data provided

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?