

Scheme of Work

2023-08-16

Week	Topic	Remarks
1	Topic 1: Introduction to R language - Introduction to basic features of R programming - Logical vectors and relational operators	Entrance Survey
2	Topic 1: (cont'd) - Extracting elements from vectors - Data frames and list	
3	Topic 2: Programming with R - Flow control - Introduction to function	
4	Topic 2: (cont'd) - Introduction to function - Packages, libraries, and repositories	
5	Topic 3: Importing data into R - Importing from flat files with “utils” base package - Importing Excel data file - Importing data from other statistical software - Exporting data	Focus on Histogram, Scatter diagram, Bar chart, Box plot, and Line chart
6	Topic 4: Programming statistical graphics - Plotting using base package (graphics)	Focus on Histogram, Scatter diagram, Bar chart, Box plot, and Line chart Online Quiz
7	Topic 4: (Cont'd) - Plotting using ggplot2	
8	Topic 5: Data Cleaning and filtering - Introduction to tidy data - Introduction to tidyr package	Discuss project
9	Topic 5: (Cont'd) - Missing Data - Keep and remove variables - Filtering data and variables	Discuss project
10	Topic 6: Basic Statistical Analysis - Summary statistics, frequency, and cross tabulation data	Discuss project
11	Topic 6: (Cont'd) - Test of mean (test of single mean, independent t-test, paired t-test, and one-way ANOVA)	
12	Topic 6: (Cont'd) - Test of association (Pearson Chi-Square and Fisher's Exact test)	Presentation
13	Topic 6: (Cont'd) - Correlation test	Test
14	Topic 6: (Cont'd) - Linear regression (simple and multiple linear regression)	Report submission

References

<https://aims.uitm.edu.my/index.cfm/page/module/moduleId/159206>

Back to main website *Miss Sue*