

Training Schedule

Topic : R programing

Date : August 09, 2022 to January 24, 2023

Venue : ACLEDA Headquarters, Meeting Room 15AB, 15 Floors.

Time	Duration	Contents	Resource person
Tuesday 09 August, 2022			
17:00-19:00	2h	I. Introduction to R programing <ul style="list-style-type: none">- Arithmetic Operators	Mr. Chan Sophal AIB trainer
Tuesday 16 August, 2022			
17:00-19:00	2h	I. Introduction to R Programing (Cont.) <ul style="list-style-type: none">- Logical Operations- Using Functions	
Tuesday 23 August, 2022			
17:00-19:00	2h	II. Data structure and Variable <ul style="list-style-type: none">- Creating Variables- Numeric, Character and Logical Data	
Tuesday 30 August, 2022			
17:00-19:00	2h	II. Data Structure and Variable (Cont.) <ul style="list-style-type: none">- Vectors- Data Frames- Factors	
Tuesday 06 September, 2022			
17:00-19:00	2h	II. Data Structure and Variable (Cont.) <ul style="list-style-type: none">- Sorting Numeric, Character, and Factor Vectors- Special Values	

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Tuesday 13 September, 2022			
17:00-19:00	2h	III. R package and scripts <ul style="list-style-type: none">- Setting up your working directory- Downloading and importing data	Mr. Chan Sophal AIB trainer
Tuesday 20 September, 2022			
17:00-19:00	2h	III. R package and scripts (Cont.) <ul style="list-style-type: none">- Working with missing data- Extracting a subset of a data frame- Writing R scripts	
Tuesday 04 October, 2022			
17:00-19:00	2h	III. R package and scripts (Cont.) <ul style="list-style-type: none">- Adding comments and documentation- Creating reports	
Tuesday 11 October, 2022			
17:00-19:00	2h	IV. Descriptive statistic in R <ul style="list-style-type: none">- Measures of central tendency- Measures of variability- Skewness and kurtosis	
Tuesday 18 October, 2022			
17:00-19:00	2h	IV. Descriptive statistic in R (Cont.) <ul style="list-style-type: none">- Summary functions, describe functions, and descriptive statistics by group- Correlations	
Tuesday 25 October, 2022			
17:00-19:00	2h	V. Statistical graph <ul style="list-style-type: none">- Scatter Plots- Box Plots	
Tuesday 01 November, 2022			
17:00-19:00	2h	V. Statistical graph (Cont.) <ul style="list-style-type: none">- Scatter Plots and Box and-Whisker Plots Together- Histograms and etc	

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Tuesday 15 November, 2022			
17:00-19:00	2h	VI. Messy data implementation <ul style="list-style-type: none">- Messy Data- Renaming Columns (Variable Names)- Attaching / Detaching	Mr. Chan Sophal AIB trainer
Tuesday 22 November, 2022			
17:00-19:00	2h	VI. Messy data implementation (Cont.) <ul style="list-style-type: none">- Tabulating Data: Constructing Simple Frequency Tables- Ordering Factor Variables	
Tuesday 29 November, 2022			
17:00-19:00	2h	VII. Control structure <ul style="list-style-type: none">- while loops- for loops	
Tuesday 06 December, 2022			
17:00-19:00	2h	VII. Control structure (Cont.) <ul style="list-style-type: none">- If / else- Boolean logical operators	
Tuesday 13 December, 2022			
17:00-19:00	2h	VIII. Data exploration and visualization <ul style="list-style-type: none">- Using the gg plot 2 package to visualize data- Applying themes from gg themes to refine and customize charts and graphs	
Tuesday 20 December, 2022			
17:00-19:00	2h	VIII. Data exploration and visualization (Cont.) <ul style="list-style-type: none">- Building data graphics for dynamic reporting	

Time	Duration	Contents	Resource person
Tuesday 27 December, 2022			
17:00-19:00	2h	IX. Data querying <ul style="list-style-type: none">- Writing SQL statements in R- Using the Select, From, Where, Is, Like, Order By, Limit, Max, Min SQL functions	Mr. Chan Sophal AIB trainer
Tuesday 03 January, 2023			
17:00-19:00	2h	X. R function reporting and interactive reporting with R markdown <ul style="list-style-type: none">- Creating functions- Calling functions	
Tuesday 10 January, 2023			
17:00-19:00	2h	X. R function reporting and interactive reporting with R markdown (Cont.) <ul style="list-style-type: none">- R Mark down basics- Text formatting	
Tuesday 17 January, 2023			
17:00-19:00	2h	X. R function reporting and interactive reporting with R markdown (Cont.) <ul style="list-style-type: none">- Code chunks- YAML header- Preview of notebooks, presentations ,websites, and dashboards	
Tuesday 24 January, 2023			
17:00-18:00	1h	XI. R function reporting and interactive reporting with R markdown (Cont.) <ul style="list-style-type: none">- Code chunks- YAML header- Preview of notebooks, presentations ,websites, and dashboards	

Phnom Penh, August 01, 2022

Prepared:

A handwritten signature in blue ink, appearing to read "Bundy", with a horizontal line extending from the start of the word.

Ms. Hoeung Bundy

Manager of Training Facility Unit a.i