Course

Introduction to R/RStudio

January 30 - February 01, 2020

Institut Pasteur de Tunis (IPT)

January 30th, 2020 (Computer Room, Research and Training Building)		
	Session **Intro/Variables/Datatypes/Logical Operation**	Speakers
9:00-10:15	Take your first steps with R ● R core fundamentals: environment ● R Basics: Objects and Data Types ● R Basics: Arithmetics	Fatma Guerfali, IPT Kais Ghedira, IPT
10:15-10:45 Coffee break		
10:45-12:00	Understand and manipulate common data structures (vectors, matrices, data frames, etc): example of plotting functions	Fatma Guerfali, IPT Kais Ghedira, IPT
12:00-13:30 Lunch		
13:30-14:45	Take your first steps with RStudio (environment and basics)	Fatma Guerfali, IPT Kais Ghedira, IPT
14:45-15:15 Coffee break		
15:15-16:30	Understand and manipulate common data structures (vectors, matrices, data frames, etc): example of plotting packages	Fatma Guerfali, IPT Kais Ghedira, IPT

January 31st, 2020 (Computer Room, Research and Training Building)	
Session **Function / Collection**	Speakers

9:00-10:15	Data Mining & Manipulation: import and explore a specific dataset by writing your own R script (I)	Kais Ghedira, IPT Fatma Guerfali, IPT
10:15-10:45 Coffee break		
10:45-12:00	Data Mining & Manipulation: import and explore a specific dataset by writing your own R script (II)	Kais Ghedira, IPT Fatma Guerfali, IPT
12:00-13:30 Lunch		
13:30-14:45	Data Mining & Manipulation: import and explore a specific dataset by using an existing R script (I)	Kais Ghedira, IPT Fatma Guerfali, IPT
14:45-15:15 Coffee break		
15:15-16:30	Data Mining & Manipulation: import and explore a specific dataset by using an existing R script (II)	Kais Ghedira, IPT Fatma Guerfali, IPT

February 1st, 2020 (Computer Room, Research and Training Building)		
	Session **Flow Control**	Speakers
9:00-10:15	Advanced R: develop a Shiny web application (I)	Oussama Souiai, IPT
10:15-10:45 Coffee break		
10:45-12:00	Advanced R: develop a Shiny web application (II)	Oussama Souiai, IPT
12:00-13:30 Lunch		
13:30-14:45	Advanced R: GIS data & Interactive Maps with R (I)	Jaber Belkhiria
14:45-15:15 Coffee break		
15:15-16:30	Advanced R: GIS data & Interactive Maps with R (II)	Jaber Belkhiria