



Advanced Course of R and RStudio
Statistical Programming with R
 (Contents and proposed schedule)

Content	Time	Day
Module I. Programming in R and RStudio	09:30 – 11:30	1
Coffee break	11:31 – 11:59	
Module II. Exploratory Data Analysis (EDA)	12:00 – 13:30	
Loading and Pre-processing of Datasets	13:31 – 14:29	
Lunch break	14:30 – 15:30	
Assumptions of Linear Models (Normality, Heterogeneity, Independence)	15:31 – 16:29	
Module III. Univariate Statistical Analysis (USA)	16:30 – 17:30	2
Linear Models (ANOVA, ANCOVA, Regression)	09:30 – 11:30	
Generalized Linear Models GLM (Logistic and Poisson Regression)	11:31 – 11:59	
Coffee break	12:00 – 13:30	
Generalized Additive Models GAM (Bivariate and Multiple Regression)	13:31 – 14:29	
Lunch break	14:30 – 15:30	
Module IV. Multivariate Statistical Analysis (MSA)	15:31 – 16:29	3
Unconstrained Ordination (PCA, nMDS)	16:30 – 17:30	
Coffee break	09:30 – 11:30	
Constrained Ordination (RA, CCA)	11:31 – 11:59	
Student work on (their own) projects	12:00 – 14:00	
Coffee break		
Presentation of results and final discussion		