



BIostatISTICS IN HEALTH SCIENCES

January 24th to February 11th, 2022 ::: 12th Edition

Week 1

Day	Start	End	Theme
24-01-2022	09:30	10:30	Course presentation / The role of Biostatistics in Health Sciences / Basic notions
	11:00	12:30	Introduction to IBM SPSS Statistics (questionnaire database)
25-01-2022	14:00	15:30	Sampling procedures / Descriptive Statistics
	16:00	17:30	Probability Theory / Normal Distribution / Central Limit Theorem
26-01-2022	14:00	15:30	Estimation theory / Punctual and interval estimation
	16:00	17:30	Statistical hypothesis test / t-tests / One Sample t test
27-01-2022	9:00	10:30	t-tests / Two independent samples / Paired samples
	11:00	12:30	t tests / Practical exercises / Effect size / Writing results
	14:00	15:30	Analysis of Variance / One-way
	16:00	17:30	Analysis of Variance / Repeated Measures
28-01-2022	9:00	10:30	Analysis of Variance / Mixed Design
	11:00	12:30	Analysis of Variance / Practical exercises / Effect size Writing results
	14:00	15:30	Analysis of Variance / Overall review First week balance

Week 2

Day	Start	End	Theme
01-02-2022	11:00	12:30	Revisions & Exercises
	14:00	17:30	Pearson Correlation Coefficient and Simple Linear Regression / Multiple Linear Regression
02-02-2022	9:00	12:30	Binary and Multinomial Logistic Regression
	14:00	15:30	Roc curves

Week 2 (cont.)

Day	Start	End	Theme
03-02-2022	9:00	10:30	Nonparametric statistics / Mann-Whitney / Wilcoxon
	11:00	12:30	Nonparametric statistics / Kruskal-Wallis / Friedman
	14:00	15:30	Nonparametric statistics / Chi-Square (crosstabs)
	16:00	17:30	Nonparametric statistics / Pearson's Phi Cramer's V / Spearman's rho / Kendall's tau
04-02-2022	14:00	15:30	Nonparametric statistics / Overview
	16:00	17:30	Course Balance

Week 3

Day	Start	End	Theme
09-02-2022	9:00	12:30	Clarification and support session
10-02-2022	9:00	12:30	Clarification and support session
11-02-2022	9:00	12:30	Exam

THIS IS AN IN-PERSON COURSE

All rules and guidelines from DGS and University of Minho for COVID-19 prevention will be strictly followed