BIOSTATISTICS IN HEALTH SCIENCES

January 20 - February 7, 2025 ::: 15th Edition

Week 1

Day	Start	End	Theme
20/01/2025	09:00	10:30	Course presentation / The role of Biostatiscs in Health Sciences / Basic notions
	11:00	12:30	Introduction to IBM SPSS Statistics (questionnaire database)
	14:00	15:30	Sampling procedures / Descriptive Statistics
	16:00	17:30	Probability Theory / Normal Distribution / Central Limit Theorem
21/01/2025	14:00	15:30	Estimation theory / Punctual and interval estimation
	16:00	17:30	Statistical hypothesis test / t-tests / One Sample t test
22/01/2025	09:00	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
24/01/2025	09:30	11:00	Analysis of Variance / Mixed Design / Practical exercises / Effect size | Writing results
	11:30	13:00	Analysis of Variance / Overall review | First week balance

Week 2

Day	Start	End	Theme
27/01/2025	09:00	10:30	Revisions & Exercises
	11:00	12:30	Pearson Correlation Coefficient and Simple Linear Regression / Multiple Linear Regression
28/01/2025	09:00	10:30	Binary and Multinomial Logistic Regression
	11:00	12:30	Roc curves
	14:00	15:30	Nonparametric statistics / Overview
	16:00	17:30	Nonparametric statistics / Mann-Whitney / Wilcoxon
29/01/2025	09:00	10:30	Nonparametric statistics / Kruskal-Wallis / Friedman
	11:00	12:30	Nonparametric statistics / Chi-Square (crosstabs)
	14:00	15:30	Nonparametric statistics / Pearson's Phi | Cramer's V / Spearman's rho / Kendall's tau
	16:00	17:30	Course Balance

Week 3

Day	Start	End	Theme
06/02/2025	09:00	12:30	Clarification and support session
07/02/2025	09:00	12:30	Exam