Statistics

Luca Pennella

September 10th, 2024

Lecture Plan

Pre-courses

09-13 September 2024					
	Monday	Tuesday	Wednesday	Thursday	Friday
9.00-10.00		Statistics Ed. H3 aula 3A	Statistics Ed. H3 aula 1B	Statistics Ed. C11 aula Magna	
10.00-11.00					
11.00-12.00	Linear Algebra Ed. H3 aula 3B	Linear Algebra Ed. H3 aula 3A	Linear Algebra Ed. H3 aula 1B	Linear Algebra Ed. H3 aula 3B	
12.00-13.00					
13.00-14.00					
14.00-15.00	Computer Programming Ed. H3 aula 3 B	Computer Programming Ed. H3 aula 3 B	Computer Programming Ed. H3 aula 3 B	Computer Programming Ed. H3 aula 3 B	
15.00-16.00					
16.00-17.00					

16-20 September 2024					
	Monday	Tuesday	Wednesday	Thursday	Friday
9.00-10.00	Statistics Ed. H3 aula 2B	Statistics Ed. H3 aula 2B	Statistics Ed. H3 aula 2B	Statistics Ed. H3 aula 1B	
10.00-11.00					
11.00-12.00	Linear Algebra Ed. H3 aula 2B	Linear Algebra Ed. H3 aula 2B			
12.00-13.00					
13.00-14.00					
14.00-15.00	Computer Programming Ed. H3 aula 2 B	Computer Programming Ed. H3 aula 2 B	Computer Programming Ed. H3 aula 2 B	Computer Programming Ed. H3 aula 1 B	
15.00-16.00					
16.00-17.00					

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Course Contents

This is an introductory course aimed at reviewing basic statistical concepts, including:

- Descriptive Analysis: frequency distributions, graphical displays, measures of location and shape;
- Elements of Probability: events, axioms of probability, discrete and continuous variables, and random variables;
- R: Fundamentals of R programming language, data visualization and data analysis
- Mysterious contents

If you don't need these concepts you have won 'delay the alarm clock for two hours'.

During class

Textbooks:

- Cicchitelli G., D'Urso P., Minozzo M., Statistics: Principles and methods, 1st Edition (2021), Pearson
- Rafael A Irizarry, Introduction to Data Science Statistics and Prediction Algorithms Through Case Studies