

Date	hours	Room	Topic
Thursday, October 13, 2022	4	Aula 11 G. D'Annunzio	Introduction to big data and software
Thursday, October 20, 2022	4	Aula 11 G. D'Annunzio	Data, information, models, data types, analytical representation of data, Calibration and regression, Introduction to Statistics, Univariate analysis
Thursday, October 27, 2022	4	Aula 11 G. D'Annunzio	Multivariate regression
Thursday, November 03, 2022	4	Aula 11 G. D'Annunzio	PCA: practical use; Cluster analysis: practical use
Thursday, November 10, 2022	4	Aula 11 G. D'Annunzio	Understanding regression-PLS: practical use, cluster analysis, normalization. PLS-DA: practical use
Thursday, November 17, 2022	4	Aula 11 G. D'Annunzio	Factorial designs, Fractional factorial designs, Overview of other types of experimental designs (Plackett–Burman designs, D-optimal designs, Supersaturated designs, Asymmetrical designs)
Thursday, November 24, 2022	4	Aula 11 G. D'Annunzio	Response surface methods and designs, Applications of designed experiments from various fields of food science
Thursday, December 01, 2022	4	Aula 11 G. D'Annunzio	Students report analysis
Thursday, December 08, 2022	4	Aula 11 G.	PCA in food analysis (Prof Sacchetti)
Thursday, December 15, 2022	4	Aula 11 G.	PLS-DA in food analysis (Prof Sacchetti)
TOT	40		