Course offered for the STAT PhD program starting from a.y. 2019/2020

TITLE	***Environmental analytical chemistry***
Lecturer	Riccardo Narizzano
Duration and Credits	3 CFU (12 hrs)
Course description	The course is aimed to provide basic knowledge of the most important principles of instrumental analytical chemistry; particular attention will be focused on the environmental application of spectroscopy, spectrometry, chromatography and microscopy. Relevant environmental topics, such as emerging contaminants, antimicrobial resistance and microplastics will be faced. The students will be introduced to the statistic techniques for processing the experimental data to provide information for monitoring and forensic purposes with particular emphasis on sampling, detection and quantitation limits, acceptability criteria for calibration curves, conformity assessment. Worked-examples on real case scenario will be discussed.
Course organization	frontal lessons and visit to ARPAL laboratory.
Teaching period	Any period from March to May.