

## **COURSE: BIOSTATISTICS - CHEMOMETRICS**

### **Course content:**

Statistical treatment of analytical results: errors, distributions, statistical significance tests, variance analysis, Introduction to Chemometrics, Validation - Verification of Analytical Methods, Calculation of uncertainty, standard requirements EN / ISO / IEC 17025, quantification techniques, least square method, Biostatistics: Main statistic distributions in Clinical Chemistry, Sampling, Basic parametric statistical tests, Basic non-parametric statistical tests, ROC curves , survival analysis, Kaplan-Meier analysis, univariate and multivariate Cox analysis, logistic regression, Applications in clinical samples.

## **LECTURERS**

### **Faculty Members:**

*M. Koupparis* (coordinator), Professor, Faculty Member Department of Chemistry,  
*K. Efstathiou*, Professor, Faculty Member Department of Chemistry.

### **Outside contributors:**

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### **ASSESSMENT METHOD:**

Written exam