

COURSE DESCRIPTION

COURSE NAME		STATISTICAL ANALYSIS OF EXPERIMENTAL ALGORITHMS				CODE: MOC2103O1
STUDY YEAR	MASTER II	SEMESTER	1	COURSE STATUS (C -compulsory/ OP -optional/ F -facultative)		OP
HOURS PER WEEK		TOTAL HOURS PER SEMESTER	TOTAL HOURS INDIVIDUAL ACTIVITY	CREDITS	EVALUATION (P -during the semester, C -oral examination, E -written examination, M -mixed)	TEACHING LANGUAGE
C	S	L	Pr.			
2	-	2	-	56	184	8
					M	English
COURSE TEACHER	TEACHING AND SCIENTIFIC DEGREE, FIRST NAME, LAST NAME			DEPARTMENT		
	LECT. VALENTIN CLOCOTICI			Computer Science		
PREVIOUS COURSES REQUESTED		An introductory course in mathematical statistics.				
OBJECTIVES	After completing this course students should be able to: understand and implement some common multivariate methods; correctly apply and interpret all of the statistical methods studied; choose an appropriate method for a given data set and problem; successfully communicate their findings to their peers; correctly interpret multivariate analyses in the scientific literature.					
GENERAL DESCRIPTION	Preparing & Cleaning Data Analysis of variance (ANOVA) and covariance (ANCOVA) Multiple Regression Analysis Principle Components and Factor Analysis Cluster Analysis					
DESCRIPTION OF SEMINARY / LABORATORY WORKS	Practicals include: - using a statistical package like SPSS or Ms Excel Data Analysis - statistical analysis of multivariate datasets. - case studies Exercises can be finished at home if needed.					
TEACHING METHODS	PowerPoint presentations and blackboard (if needed).					
BIBLIOGRAPHY (SELECTION)	Lecture notes G. Mihoc, V. Urseanu, E. Ursianu: Modele de analiză statistică, Editura Științifică și Enciclopedică, București, 1982.					
EVALUATION	conditions					
	criteria					
	evaluation methods	Four projects throughout the semester that will involve analyzing a data set and interpreting the findings; one literature review project; final exam (25 multiple choice items)				
	final result - formula	Points (maximum) = 4×25 (data analysis projects) + 30 (literature review project) + 20 (final exam) Final result is obtained by normalization.				