COURSE OUTLINE

Ημερομηνία: 1 Νοε 2022

A. INFORMATION FOR THE COURSE

-1-

A1. School	School of Science and Technology of Information
A2. Department	Department of Statistics
A3. Master Programme	
A4. Course Code	6123
A5. Title of the Course	STATISTICAL QUALITY CONTROL

Lecturers

Name	Rank	Specialization
PSARAKIS STELIOS	Professor	Statistics

B. TYPE OF COURSE

B1. Year of Study	3
B2. Semester	5th
B3. Level of Course (if applicable)	1st Cycle
B4. Type of course	Elective
B5. Field	Background
B6. ECTS credits allocated (ECTS)	7.00
B7. Is the Course in the Syllabus?	Yes
B8. If yes, which is the reference Page?	29-68
B9. Is there a site for the course?	Yes https://www.dept.aueb.gr/el/stat-courses

C. INSTRUCTION

C1. Lectures Include:	Classroom lectures: Yes Distance learning lectures: No Seminars: No Laboratory exercises: Yes Field training exercise: No Literary analysis: Yes Tutorial: No Interactive teaching: No Educational visits: No Project: Yes Essays/reports: No Independent study: Yes Lectures given by scientists: No Internship: No
C2. Scheduled Hours for Lectures per week	4.00
C3. Scheduled Hours for Tutorials per week	2.00
C4. Scheduled Hours for Workshops per week	
C5. Scheduled Hours for Case Studies per week	
C6. Scheduled Hours for Other Activities per week	
C7. Scheduled Hours for Lectures per semester	52
C8. Scheduled Hours for Tutorials per semester	26
C9. Scheduled Hours for Workshops per semester	
C10. Scheduled Hours for Case Studies per semester	
C11. Scheduled Hours for Other Activities per semester	
C12. Mode of Delivery	Face to Face
C13. Student's Evaluation	Written examination at the end of the semester: Yes Oral examination: No Midterm exam: No Homework: No Project: Yes Public Presentation: No Laboratory exercises: No Practical exercises: No Exempt work: No

-2-

C14. Language of Instruction	Greek

D. PREREQUISITE COURSES

E. COURSE CONTENTS (Syllabus)

Definition of quality. Basics on quality and statistical quality control. Cause and effect chart, Pareto chart. Control charts for variables. Attributes control charts, Individual charts. Capability indices, Introduction to multivariate control charts. Basics of six sigma methodology. Acceptance sampling.

F. LEARNING OUTCOMES

The student after the course will acquire the skills needed to deal with problems improving the quality of products or services using statistical methods.

G. LITERATURE

G1. Use of Multiple Literature	Yes
G2. Recommended or required reading	