BUSINESS MANAGEMENT (LM01)

(Lecce - Università degli Studi)

Teaching STATISTICS FOR BUSINESS		Teaching in italian STATISTICS FOR BUSINESS	Course year 2
		Teaching STATISTICS FOR BUSINESS	Language INGLESE
GenCod A003654		SSD code SECS-S/01	Curriculum CONTROLLO DI GESTIONE
Owner professor Leonardo MARIELLA		Reference course BUSINESS MANAGEMENT	
		Course type Laurea Magistrale	Location Lecce
		Credits 6.0	Semester Primo-Semestre
		Teaching hours Ore-Attivita-frontale: 48.0	Exam type Orale
		For enrolled in 2017/2018	Assessment Voto-Finale
		Taught in 2018/2019	Course timetable https://easyroom.unisalento.it/Orario
BRIEF COURSE DESCRIPTION	The course explains the most commonly used statistical methods such as support for managerial decisions.		
REQUIREMENTS	Elements of Statistics and Business Economy		
COURSE AIMS	The teaching is intended to provide the student with: - specific knowledge of the most frequently used statistical methods to deal with and analyze problems in the business environment; - in order to facilitate understanding all the techniques are applied to specific cases; - the autonomy of judgment and the intuitive ability of the student are stimulated through the solution of problems to be dealt with autonomously or through activities for small groups;		

TEACHING METHODOLOGY

Lectures with use of audiovisual supports, exercises in the classroom

- in order to form communication skills and verify learning skills, solved problems are exposed by

ASSESSMENT TYPE

Oral examination with resolution of specific problems

the students to the classroom



FULL SYLLABUS

Main sources of Business Statistics:

- o Internal sources for data collection
- o The National Statistical System and external sources
- * The National Statistical System
- * External sources for data collection
- o Other databases
- * The databases of Cerved Group s.p.a

Descriptive Statistics:

- * Collective and statistical features
- * Tables and graphs
- * Statistical indexes
- * Balance indexes
- o Composition indexes
- o Balance indexes and turnover ratios
- o Profitability ratios

Position and variability of distributions:

- * Position indexes
- o Modal value
- o Median value
- o Mean and trimmed mean
- * Variability indexes
- o Accuracy of modal value
- o Accuracy of median value
- o Accuracy of mean
- * The Delphi method and its variants
- o Features of the expert panel
- o Features of the method
- * Some variants of the Delphi method

Empirical distribution function and indices:

- * Empirical distribution function
- * Position and empirical distribution function
- o Quantile values
- o Half sum of quantile values
- * Variability and empirical distribution function
- o Interquantile range
- * The Shang method

Index numbers:

- * Simple index numbers
- * Composite index numbers
- * Weighted composite index numbers
- * Business productivity
- o Analysis of the output of a process
- o Analysis of the inputs of a process
- o Partial productivity indices
- o Overall productivity indexes
- * Temporal and spatial analysis of business productivity

Analysis of interdependence:

- * Independence
- * Statistical connection between two features
- * Cograduation and correlation between two features
- * Customer features



Analysis of dependence:

- * Mean-independence
- * Linear regression model
- * Break even analysis
- * Convenience analysis
- * Multiple linear regression model
- * Generalized break even analysis
- * Balance analysis

Inference Statistics:

- * Population and sample
- * Features of an infinite population
- o Sampling from infinite populations
- o Estimating of an infinite population parameters
- * Control charts
- o Control charts for attributes
- o Control charts for variables
- * Features of an finite population
- o Sampling from finite populations
- o Estimating of an finite population parameters
- * Sampling techniques in auditing
- o Estimation sampling
- o Discovery sampling

REFERENCE TEXT BOOKS

L. MARIELLA, M. TARANTINO. Statistica Aziendale per il Controllo di Gestione. McGraw-Hill Education (Italy), Milano, gennaio 2013.

