UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Scienze Economiche, Aziendali e Statistiche
ACADEMIC YEAR	2019/2020
MASTER'S DEGREE (MSC)	BUSINESS ECONOMIC SCIENCES
INTEGRATED COURSE	STATISTICS FOR BUSINESS CONTROL - INTEGRATED COURSE
CODE	17110
MODULES	Yes
NUMBER OF MODULES	2
SCIENTIFIC SECTOR(S)	SECS-S/03
HEAD PROFESSOR(S)	VASSILIADIS ELLI Ricercatore Univ. di PALERMO
OTHER PROFESSOR(S)	VASSILIADIS ELLI Ricercatore Univ. di PALERMO
CREDITS	10
PROPAEDEUTICAL SUBJECTS	
MUTUALIZATION	
YEAR	2
TERM (SEMESTER)	1° semester
ATTENDANCE	Not mandatory
EVALUATION	Out of 30
TEACHER OFFICE HOURS	**VASSILIADIS ELLI** Tuesday 12:00 14:00 Stanza del docente

DOCENTE: Prof.ssa ELLI VASSILIADIS

PREREQUISITES	Knowledge obteined in basic courses in Statistics and in business disciplines
LEARNING OUTCOMES	Knowledge and understanding: to learn the technical language, to know the macro and micro statistical sources; to use appropriately the statistical methods to analyze economic scenarios, both macro and micro. Applying knowledge and understanding: To be able to recognize the statistical nature of data; to link correctly the micro and macro-variables among them; to build simple economic indicators; to analyze and interpret economic and business data. Making judgements: to be able to evaluate the consequences of a choice rather than another; to be able to integrate the different statistical sources; to be able to evaluate critically the results of simple analysis. Communication skills: ability to explain the results of the analyses to the peers and to a public not expert in the field. Learning skills: To be able to consult scientific papers; capability in upgrading sources, concepts and methods; to be able to contextualize an economic phenomenon.
ASSESSMENT METHODS	The final test is exclusively an oral test. The examination board will be interested to understand if the student has learnt the appropriate technical language to express correctly the fundamental concepts and subjects. The oral test involves also the solution of simple exercises or the proof of some formula. Evaluation Method: the score will be interpreted in the following way: a score of 30-30!: an excellent knowledge of the subjects and a great command of technical language; 26-29: good knowledge of discipline and some tolerable inaccuracy; 25-23: some knowledge of the main issues and heavy inaccuracy; 18-22: minimal knowledge of the arguments.
TEACHING METHODS	Frontal lesson and pratical exercises

MODULE
QUALITY CONTROL

Prof.ssa ELLI VASSILIADIS

SUGGESTED BIBLIOGRAPHY	
Montgomery D. C. (2006), Controllo statistico della qualita' (ed. it.) McGraw Hill. Tamburrano E. (1999), Il controllo statistico di qualita, Franco Angeli, Milano.	
AMBIT	21021-Attività formative affini o integrative
INDIVIDUAL STUDY (Hrs)	73
COURSE ACTIVITY (Hrs)	27
EDUCATIONAL OBJECTIVES OF THE MODULE	
Study of the main models for the evaluation of the quality and interpretation of the results in a Total Quality Management (TQM) approach. Special emphasis will be given to the dissemination of the "culture of quality" as a strategic element for the competitive development of firms. For this purpose, both the difficulties that firms have in adopting the concept of quality as "systemic variable" that the opportunity to develop a customized approach to quality will be analyzed.	

SYLLABUS

Hrs	Frontal teaching
2	Historical overview of the concept of quality: from the concept of quality to TQM. The components of quality.
2	The most important contributions to Quality. The PDCA cycle.
2	The seven tools of quality of Ishikawa.
2	The ISO 9000 standard.
2	The EFQM model
6	Control charts for attributes for variables and individual measures
2	Process capability

Hrs	Practice
6	Application of control charts
3	Evaluation of process capability

MODULE
ECONOMIC AND BUSINESS STATISTICS

Prof.ssa ELLI VASSILIADIS

SUGGESTED BIBLIOGRAPHY	
Piacentino C. (2009), Elementi di Statistica economica e Contabilita' nazionale, Aracne Ed. Biggeri L., Bini M., Coli A., Grassini L. e Maltagliati M. (2012), Statistica per le decisioni aziendali, Pearson Italia, Milano. Andolina P. (2011), L'informazione statistica per la gestione aziendale, Aracne Ed., Roma.	
AMBIT	21021-Attività formative affini o integrative
INDIVIDUAL STUDY (Hrs)	111
COURSE ACTIVITY (Hrs)	39
EDUCATIONAL OBJECTIVES OF THE MODULE	
The course aims to teach those statistical methods necessary to analyze business problems, with implications with macro-economic phenomena. At the end of the course, each student will be able to get out of several statistical sources, to collect data, to sketch a simple economic analysis and synthetize it.	

SYLLABUS

Hrs	Frontal teaching
2	Introduction to the subjects of the course
4	Economic operators and operations; Knight circuit; national and international economic statistical sources; the censuses and surveys.
4	Business statistical sources; internal and external sources; data quality
4	SNA 1995 and 2010; value added, GDP; national income; disposable national income; consumption and saving.
4	The temporal and spatial comparison of economic and business variables: price index numbers, industrial production index numbers; PPP.
4	Analysis of business technical performance: efficiency and productivity, production function, measuring partial and total productivity.
4	The relationship among the economic and business variables.
4	Business forecasts; measuring seasonality.

Hrs	Practice
9	Practical exercises on the different subjects of the course