UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Scienze Economiche, Aziendali e Statistiche
ACADEMIC YEAR	2019/2020
BACHELOR'S DEGREE (BSC)	STATISTICS FOR DATA ANALYSIS
SUBJECT	ECONOMIC STATISTICS 1
TYPE OF EDUCATIONAL ACTIVITY	B
AMBIT	50250-Statistico, statistico applicato, demografico
CODE	06674
SCIENTIFIC SECTOR(S)	SECS-S/03
HEAD PROFESSOR(S)	CUFFARO MIRANDA Professore a contratto in quiescenza Univ. di PALERMO
OTHER PROFESSOR(S)	
CREDITS	9
INDIVIDUAL STUDY (Hrs)	147
COURSE ACTIVITY (Hrs)	78
PROPAEDEUTICAL SUBJECTS	20581 - EXPLORATORY STATISTICS 02796 - POLITICAL ECONOMICS
MUTUALIZATION	
YEAR	2
TERM (SEMESTER)	1° semester
ATTENDANCE	Not mandatory
EVALUATION	Out of 30
TEACHER OFFICE HOURS	**CUFFARO MIRANDA** Wednesday 10:00 12:00 dipartimento 2° piano edificio 13 Thursday 10:00 12:00 dipartimento 2° piano edificio 13

DOCENTE: Prof.ssa MIRANDA CUFFARO

PREREQUISITES	Basic concepts of math (functions of one and more variables, simple and multiple derivatives, integrals) statistics (mean, variance, standard deviation, correlation and regression, estimators) and economics (consumer and entrepreneur behavior, macro-variables relationship).
LEARNING OUTCOMES	Knowledge and understanding: to learn the thecnical language, to know the statistical sources of economic phenomena; to use appropriately the statistical methods to analyze economic scenarios. Applying knowledge and understanding: To be able to recognize the statistical nature of data (cross-section, time series, spatial and panel data); to link correctly the macro-variables among them; to build simple economic indicators; to analyze and interpret economic 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 of National Statistical Institute; 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, to analyze an economic scenario by both graphs and tables and macro indicators. The oral test involves also the solution of simple exercises or the proof of some formula; further, the test aims to verify if the student knows well the most important economic statistical sources, both national and international. Evaluation Method: a minimum score will be based on the knowledge of national and international statistical sources on economic data, some basic concepts of ESA and index numbers.
EDUCATIONAL OBJECTIVES	The course aims to teach those concepts, thecnical language and statistical methods in order to analyse 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.
TEACHING METHODS	Frontal lessons and practical exercises on real or artificial data; laboratory by excel. Each student will be involved on the solution of the exercises.
SUGGESTED BIBLIOGRAPHY	Guarini R. e Tassinari F., Statistica Economica, Il Mulino, Milano, 2000.da consultare Biggeri L. et al., Statistica per le decisioni aziendali, Pearson Milano, 2012, da consultare Giovannini E. Le Statistiche Economiche, Il Mulino, 2006; tranne cap.V Documenti ISTAT su Forze Lavoro, Numeri Indici, Capitale Materiale, Tavola input-output. Documenti EUROSTAT. Dispense a cura del docente. Tutti i documenti e le dispense verranno caricati sul sito personale del docente.

SYLLABUS

Hrs	Frontal teaching
10	Subjects of Economic Statistics; economic operators and operations; Knight circuit; main economic statistical sources, both national and international
12	SNA 1995 and 2010; from Value Added to GDP; from National Income to National Disposable Income; Saving and accumulation; functional distribution and re-distribution; labour forces; human, social and material capital
6	The input-output table and Namea matrix
10	The main methods of Economic Statistics: index numbers for time and spatial comparisons; time series analysis according to the classical approach.
10	Consumer and entrepreneur behavior by statistical function; statistical evaluation of poverty; income inequality; productivity measures

Hrs	Practice
30	Practical exercises on the board and by PC on all the subjects of frontal lectures