



# UNIVERSITÀ DEGLI STUDI DI PALERMO

<b>DEPARTMENT</b>	Promozione della Salute, Materno-Infantile, di Medicina Interna e Specialistica di Eccellenza "G. D'Alessandro"		
<b>ACADEMIC YEAR</b>	2016/2017		
<b>BACHELOR'S DEGREE (BSC)</b>	NURSING		
<b>INTEGRATED COURSE</b>	NURSING RESEARCH METHODOLOGY - INTEGRATED COURSE		
<b>CODE</b>	15891		
<b>MODULES</b>	Yes		
<b>NUMBER OF MODULES</b>	2		
<b>SCIENTIFIC SECTOR(S)</b>	MED/45, SECS-S/02		
<b>HEAD PROFESSOR(S)</b>	CORRAO SALVATORE	Professore Ordinario	Univ. di PALERMO
<b>OTHER PROFESSOR(S)</b>	CORRAO SALVATORE	Professore Ordinario	Univ. di PALERMO
	BARONE STEFANO	Professore Associato	Univ. di PALERMO
<b>CREDITS</b>	7		
<b>PROPAEDEUTICAL SUBJECTS</b>			
<b>MUTUALIZATION</b>			
<b>YEAR</b>	2		
<b>TERM (SEMESTER)</b>	2° semester		
<b>ATTENDANCE</b>	Mandatory		
<b>EVALUATION</b>	Out of 30		
<b>TEACHER OFFICE HOURS</b>	<p><b>BARONE STEFANO</b>  Monday 11:00 13:00 Aula M - presso il Dipartimento di scienze agrarie, alimentari e forestali, viale delle scienze, Palermo, edificio 4, sezione Coltivazioni Arboree. Piano terra.  Wednesday 11:00 13:00 Aula M - presso il Dipartimento di scienze agrarie, alimentari e forestali, viale delle scienze, Palermo, edificio 4, sezione Coltivazioni Arboree. Piano terra.</p> <p><b>CORRAO SALVATORE</b>  Monday 9:00 13:00</p>		

**DOCENTE:** Prof. SALVATORE CORRAO

<b>PREREQUISITES</b>	Basic knowledge of English ( written ) . Learn the basics of mathematics.
<b>LEARNING OUTCOMES</b>	<p>Knowledge and understanding .  Understanding the role of the nurse in medical research , specifically for the nursing , and methods to conduct research and / or analyze it critically .  Applying knowledge and understanding.  Writing a research protocol ; identification of the various parts of a scientific publication ; interpreting the results of a search .  Making judgments .  Identification of needs in the field of nursing research and development of the capacity for critical evaluation of the scientific literature . Knowing how to use research results for decision -making in clinical nursing practice .  Communication skills .  Knowing how to submit the protocol and / or the results of a search.  learning ability .  Development of critical thinking and self-learning capabilities from the information Biomedical .</p>
<b>ASSESSMENT METHODS</b>	WRITTEN TEST
<b>TEACHING METHODS</b>	FRONTAL LESSONS

**MODULE  
NURSING RESEARCH METHODOLOGY**

*Prof. SALVATORE CORRAO*

**SUGGESTED BIBLIOGRAPHY**

Polit D.F., Tatano Beck C. Nursing Research. Principles and Methods. LippincottWilliams & Wilkins. 2004  
Sironi C. Introduzione alla Ricerca Infermieristica. I fondamenti teorici e gli elementi di base per comprenderla nella realta' italiana. Casa Editrice Ambrosiana. 2010

<b>AMBIT</b>	10307-Scienze infermieristiche
<b>INDIVIDUAL STUDY (Hrs)</b>	60
<b>COURSE ACTIVITY (Hrs)</b>	40

**EDUCATIONAL OBJECTIVES OF THE MODULE**

At the end of the course the student will develop skills in research and will be able to realize a research project and hone their decision-making skills in clinical practice using "evidence based".

Recognize the elements that characterize the evolution of nursing research.

Know the phases of the research process and identify the research designs in the national and international literature.

Identify problems from which it is possible to formulate research questions concerning the scope nursing issues.

Search, select and evaluate the results of nursing research or interest in the field of nursing.

**SYLLABUS**

Hrs	Frontal teaching
2	key concepts and terms of qualitative and quantitative research:
2	The research Protocol and search products
2	The roles in a research project
2	The "setting". Phenomena, concepts and constructs. Theory and conceptual models.
2	Definition of concepts and variables
2	BIAS. Counfounding
2	internal validity and generalizability
2	Types of study and research process applied to qualitative and quantitative studies.
2	Review of the literature
2	research question and hypothesis to be tested
2	conceptual models used in nursing research
4	Designs for the search Nursing
2	qualitative studies
2	quantitative studies
2	Outcomes research
2	Design and implement a data collection plan
2	self-administered questionnaires
2	Data quality evaluation
4	descriptive and inferential statistics notions
4	Types and structures of scientific publications. Use research to clinical practice.
2	EBM
2	EBN

**MODULE**  
**STATISTICS FOR EXPERIMENTAL AND TECHNOLOGICAL RESEARCH**

*Prof. STEFANO BARONE*

**SUGGESTED BIBLIOGRAPHY**

Fowler, Jarvis, Chevannes, (2006) "Statistica per le professioni sanitarie", Edises, Napoli.  
Lantieri, Riso, Ravera, (2004) "Statistica medica per le professioni sanitarie", McGraw-Hill, Bologna.  
- Materiale didattico fornito dal docente.

<b>AMBIT</b>	10315-Scienze interdisciplinari
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30

**EDUCATIONAL OBJECTIVES OF THE MODULE**

**OBJECTIVES OF MODULE "STATISTICS FOR EXPERIMENTAL RESEARCH AND TECHNOLOGY"**  
Objective of the module is investigate major issues of descriptive and inferential statistics and introduce students to the knowledge of the quantitative method for the resolution of issues related to the observation of phenomena in the medical field. Will be introduce the main indices of centrality '(mean, median, mode) and the main indices of variability' (variance, standard deviation, range and coefficient of variation) for the study of phenomena characterized by a single variable. Will be treat also the main forms of statistical relationship between two characters qualitative or quantitative. In this context it is applied the chi-square test, the coefficient of correlation and linear regression model based on the analysis of qualitative variables and / or quantity of primary interest in bio-medical field.  
will be complete the course some basic knowledge on the calculation of the probabilities' and diagnostic tests born in the medical field but based on the statistical method.

**SYLLABUS**

<b>Hrs</b>	<b>Frontal teaching</b>
2	Historical development of the concept of Statistics.
2	- Introduction to Descriptive and inferential statistics
2	- Phases of a statistical survey and the statistical elements.
2	- Frequency Distributions for discrete and continuous variables
2	- Graphical representation of frequency distributions : histograms , bar charts .
3	- Statistical Measures of location - Arithmetic mean , mode and median .
3	- statistical Key of ' absolute and relative variability - Range , variance , standard deviation , coefficient of variation .
2	- Connection between mutable and statistical correlation between variables
2	- Linear correlation coefficient of Bravais - Pearson cograduaz coefficient . A Spearman rank
2	- Work on the Probability theory.
2	- Observational and experimental studies
2	- Meaning of Gauss curve in the medical field .
2	- The linear regression model : examples in the medical field .
2	- Validity of a diagnostic test : sensitivity , specificity , positive and negative predictive value of a test accuracy.