UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Promozione della Salute, Materno-Infantile, di Medicina Interna e Specialistica di Eccellenza “G. D’Alessandro”
ACADEMIC YEAR	2022/2023
BACHELOR'S DEGREE (BSC)	NURSING
INTEGRATED COURSE	RESEARCH METHODOLOGY AND PREVENTION IN NURSING - INTEGRATED OCURSE
CODE	20312
MODULES	Yes
NUMBER OF MODULES	3
SCIENTIFIC SECTOR(S)	MED/42, MED/45, INF/01
HEAD PROFESSOR(S)	LO MONACO MARIKA — Ricercatore a tempo determinato — Univ. di PALERMO
OTHER PROFESSOR(S)	IMMORDINO PALMIRA — Ricercatore a tempo determinato — Univ. di PALERMO LO MONACO MARIKA — Ricercatore a tempo determinato — Univ. di PALERMO TAORMINA VINCENZO — Ricercatore a tempo determinato — Univ. di PALERMO
CREDITS	9
PROPAEDEUTICAL SUBJECTS	
MUTUALIZATION	
YEAR	2
TERM (SEMESTER)	2° semester
ATTENDANCE	Mandatory
EVALUATION	Out of 30
TEACHER OFFICE HOURS	**IMMORDINO PALMIRA** Thursday 14:00 16:00 studio del docente presso la sezione di Igiene del dipartimento promise via del vespro, 133 90127 Palermo (policlinico). Si prega di concordare l'appuntamento previa email al docente palmira.immordino@unipa.it **LO MONACO MARIKA** Tuesday 12:00 14:00 Segreteria di Coordinamento corso di Laurea in Infermieristica, piano terra **TAORMINA VINCENZO** Monday 11:00 14:00 Dipartimento di Matematica e Informatica (stanza 222)

DOCENTE: Prof.ssa MARIKA LO MONACO

PREREQUISITES	Basic knowledge of anatomy, physiology, biology, genetics, biochemistry. Basic knowledge of Information Technology, Network and Social Media. Electronic Mail and Libreoffice,
LEARNING OUTCOMES	Knowledge and understanding Understanding the role of the nurse in the field of medical research, specifically that of nursing, and of methods for conducting research and / or critically analyzing it. understand clinical epidemiology, hygiene and prevention; understand computer science. Ability to apply knowledge and understanding Writing a research protocol; identification of the various parts of a scientific publication; interpretation of the results of a research. ability to build a database; insert the variables; learn about the main Excel-type archiving programs Autonomy of judgment Identification of needs in the field of nursing research and development of the capacity for critical evaluation of scientific literature. Knowing how to use research results for clinical decision-making in care practice. Be able to do the analysis of the data entered in the database. Communication skills Knowing how to present the protocol and / or the results of a research; be able to write a scientific work thanks to the results obtained from the analysis of the clinical data inserted. Learning skills Development of critical sense and self-learning skills starting from biomedical information
ASSESSMENT METHODS	A written and an oral test will be held. The written exam will check general knowledge of the course and will allow the student to access to the oral exam. The questions raised at the oral exam will tend to verify a) the acquired knowledge and b) the processing and synthesis skills. Regarding the verification of knowledge, the ability to contextualize the topic within a specific process will be required. As regards the verification of the processing capacity, the ability to extrapolate the data will be evaluated minimum information on the process in a clear and concise way and an understanding of the implications of the discipline. The evaluation scheme is the following: 30-30 and praise Excellent knowledge of the contents of the course; the student demonstrates high analytical-synthetic ability and is able to apply knowledge to solve highly complex problems. 27-29 Excellent knowledge of teaching contents and excellent language properties; the student demonstrates analytical-synthetic ability and is able to apply the knowledge to solve problems of medium complexity and, in some cases, even high ones. 24-26 Good knowledge of teaching contents and good language properties; the student is able to apply the knowledge to solve problems of medium complexity. 21-23 Fair knowledge of the contents of the course, in some cases limited to the main subjects; acceptable ability to use the specific language of the discipline and to apply the acquired knowledge independently. 18-20 Minimum knowledge of teaching content, often limited to the main subjects; modest ability to use the specific language of the discipline and to apply the acquired knowledge autonomously. Insufficient Does not possess an acceptable knowledge of the main contents of the teaching; very little or no ability to use the specific language of the discipline and to independently apply the acquired knowledge.
TEACHING METHODS	face to face lessons

MODULE
INFORMATICS

Prof. VINCENZO TAORMINA

SUGGESTED BIBLIOGRAPHY

- Biomedical Informatics. Computer Applications in Health Care and Biomedicine
Shortliffe, Edward H., Cimino, James J. (Eds.) Editore: Springer Verlag; 3° edizione (25 maggio 2006) ISBN-10 : 0387289860
- Biomedical Informatics: An Introduction to Information Systems and Software in Medicine and Health
1st Edition
David J. Lubliner; Editore Auerbach Publications ISBN-10 : 1466596201

AMBIT	10315-Scienze interdisciplinari
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	30

EDUCATIONAL OBJECTIVES OF THE MODULE

The main objective of the module is the knowledge of the fundamental principles of the functioning of informatic systems and their relative ability of use. The module therefore proposes an introductory course on computer systems, taking the Personal Computer as a paradigm, to then deepen the use of the main tools for individual productivity in the health sector: the spreadsheet and databases, the electronic record.

SYLLABUS

Hrs	Frontal teaching
2	Legislation and security about basic pc and internet
3	Basic informatics
3	The clinical and nursing record in the integration with Health Information Systems
2	Computerized transmission of diagnostic tests
3	Health informatics - telemedicine -
3	Network infrastructures: computer networks, the Internet and the World Wide Web
3	Code regarding the protection of personal data, health communication and protection of privacy
3	Health information processing systems
4	Applications. The databases: definition and management of an informatical medical record.
2	Use of social networks
2	Evaluation and management of health technologies

MODULE
RESEARCH METHODOLOGY IN NURSING

Prof.ssa MARIKA LO MONACO

SUGGESTED BIBLIOGRAPHY	
Polit, Denise F., Beck, Cheryl Tatano, Nursing research: generating and assessing evidence for nursing practice Wolters Kluwer Health/Lippincott Williams & Wilkins, [2012]. Ninth Edition.	
AMBIT	10307-Scienze infermieristiche
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	30

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	Academic career
4	The role of the nurse as user and/or research producer;
2	Historical Developments in Nursing Research Theory
4	Concepts of EBM in Nursing
4	Classification of biomedical information
6	Databases of biomedical information and learning how to use Pubmed
2	Qualitative research
4	Research Protocols and Research ethics
2	Design and implement a data collection plan for the degree thesis

MODULE
CLINICAL EPIDEMIOLOGY AND STATISTICS

Prof.ssa PALMIRA IMMORDINO

SUGGESTED BIBLIOGRAPHY

- Basic epidemiology. World Health Organization, 2006 (Open source PDF)
- Epidemiology, biostatistics, and preventive medicine. Philadelphia, PA : Saunders Elsevier, 2007.

AMBIT	10303-Scienze propedeutiche
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	30

EDUCATIONAL OBJECTIVES OF THE MODULE

The objective of the course is to present the basic concepts of statistical methodology and epidemiological methodology.
The training course is aimed at the knowledge / understanding of the concepts of descriptive and inferential statistics applied to epidemiology and the design of observational and experimental studies so that the student is able to perform / undestand simple hypothesis tests and to calculate measures of occurrence and risk.
The student will be requested to know the basics of demography, disease determinants, sources and information flows to understand health phenomena in our country and apply them to clinical epidemiology and public health.the basics of demography, disease determinants, sources and information flows to understand health phenomena in our country and apply them to clinical epidemiology and public health.

SYLLABUS

Hrs	Frontal teaching
1	Definition, history and aims of epidemiology.
3	Numerical and categorical variables. Measures of central tendency and variability. Normal distribution.
3	Inferential statistics: statistical tests, p-value and confidence intervals.
3	Occurrence of diseases: main characteristics of measures (precision and accuracy) and frequency measures (rate, proportion, ratio).
2	Demography, health data and open-data in public health.
3	Risk measures. Causality, confounding and standardization.
3	Design, definition and interpretation of epidemiological studies for descriptive aims. Observational cross-sectional studies.
2	Cohort studies.
2	Case-control studies.
2	Experimental studies.
2	Sporadic, endemic and epidemic diseases.

Hrs	Practice
4	Statistical analisis. Epidemiological study design simulation.