



# UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Biomedicina, Neuroscienze e Diagnostica avanzata		
ACADEMIC YEAR	2023/2024		
BACHELOR'S DEGREE (BSC)	NEUROPHYSIOPATHOLOGY TECHNIQUES		
INTEGRATED COURSE	HYGIENE, PREVENTION AND MEDICAL TECHNIQUES - INTEGRATED COURSE		
CODE	22324		
MODULES	Yes		
NUMBER OF MODULES	3		
SCIENTIFIC SECTOR(S)	MED/42, MED/50, MED/07		
HEAD PROFESSOR(S)	FASCIANA TERESA MARIA ASSUNTA	Professore Associato	Univ. di PALERMO
OTHER PROFESSOR(S)	FASCIANA TERESA MARIA ASSUNTA	Professore Associato	Univ. di PALERMO
	IMMORDINO PALMIRA	Ricercatore a tempo determinato	Univ. di PALERMO
	TURDO ALICE	Ricercatore a tempo determinato	Univ. di PALERMO
CREDITS	6		
PROPAEDEUTICAL SUBJECTS			
MUTUALIZATION			
YEAR	1		
TERM (SEMESTER)	1° semester		
ATTENDANCE	Mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	<p><b>FASCIANA TERESA MARIA ASSUNTA</b> Monday 14:00 16:00 Via del Vespro 133. Plesso di Igiene e Microbiologia. Secondo Piano</p> <p><b>IMMORDINO PALMIRA</b> 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</p> <p><b>TURDO ALICE</b> Wednesday 15:00 17:00 Laboratorio di fisiopatologia cellulare e molecolare, via del vespro 131 -presso Dermatologia (primo piano)-</p>		

**DOCENTE:** Prof.ssa TERESA MARIA ASSUNTA FASCIANA

<b>PREREQUISITES</b>	Basic knowledge of chemistry, physics and microbiology and the possible prevention and safety factors that influence the health conditions of the operator expert in neurophysiopathology techniques and of the patient.
<b>LEARNING OUTCOMES</b>	<p>Knowledge and understanding: Acquisition of the knowledge and skills necessary to understand basic notions on the fundamental principles and behaviors aimed at reducing possible harm, risk prevention and health promotion related to the profession.</p> <p>Ability to apply knowledge and understanding: The student must be able to apply their basic knowledge to adopt a conscious and responsible behavior in the perception and management of the risks associated with the use of equipment for recording bioelectric signals and supplying currents electric.</p> <p>Independent judgment: The student must be able to correctly analyze the possible factors that influence the health conditions of the operator and the patient and identify strategies for promoting health.</p>
<b>ASSESSMENT METHODS</b>	<p>TYPE OF TEST Oral test. The student must answer a minimum of three questions, asked orally, covering all topics of the teaching program. The test aims to assess whether the student possesses knowledge and understanding of the topics of the teaching program, autonomy of judgment, ability to apply the knowledge acquired, and specific disciplinary language.</p> <p>EVALUATION OF THE TEST AND ITS CRITERIA The evaluation of the test is in thirtieths, as follows. - Grade: 30 - 30 cum laude Assessment: Excellent - ECTS grades: Excellent (A - A +) Outcome: Excellent knowledge of teaching content. Student demonstrates high analytical-synthetic ability and is able to apply knowledge to solve problems of high complexity. - Grade: 27 - 29 Assessment: Excellent - ECTS grades: Very good (B) Outcome: Excellent knowledge of teaching content and very good command of language. Student demonstrates analytical-synthetic ability and able to apply knowledge to solve problems of medium and, in some cases, high complexity. - Grade: 24 - 26 Assessment: Good - ECTS grades: Good (C) Outcome: Good knowledge of teaching content and good language property. Student is able to apply knowledge to solve problems of medium complexity. - Grade: 21 - 23 Assessment: Fair - ECTS grades: Satisfactory (D) Outcome: Fair knowledge of teaching content, in some cases limited to main topics. Acceptable ability to use discipline-specific language and to apply acquired knowledge independently. - Grade: 18 - 20 Assessment: Sufficient - ECTS grades: Sufficient (E) Outcome: Minimal knowledge of teaching content, often limited to main topics. Modest ability to use discipline-specific language and independently apply acquired knowledge. - Grade: 1 - 17 Assessment: Insufficient - ECTS grades: Fail (F) Outcome: Does not possess acceptable knowledge of the main teaching content. Very little or no ability to use discipline-specific language and independently apply acquired knowledge. Failed Examination.</p>
<b>TEACHING METHODS</b>	Lectures with the aid of multimedia support.

**MODULE**  
**APPLIED TECHNICAL MEDICAL SCIENCES**

*Prof.ssa ALICE TURDO*

**SUGGESTED BIBLIOGRAPHY**

Articoli scientifici, documenti e risorse di rete forniti dal docente al termine delle singole lezioni.

<b>AMBIT</b>	10343-Scienze e tecniche di neurofisiopatologia
<b>INDIVIDUAL STUDY (Hrs)</b>	30
<b>COURSE ACTIVITY (Hrs)</b>	20

**EDUCATIONAL OBJECTIVES OF THE MODULE**

Acquire prevention measures to promote safety for patients, operators and work environments

**SYLLABUS**

Hrs	Frontal teaching
2	•Accident risks. Accidents and near misses.
2	•Specific risks (Carcinogenic risks. Biological risks. Physical risks. Noise. Vibration. Radiation. Microclimate and lighting. General electrical risks. Explosion risks. Chemical risks: Mists, oils, fumes, vapors, dusts. Video terminals)
4	•General mechanical risks. Risks for operator and patient associated with the use of machines and equipment for recording bioelectrical signals.
2	•Labeling. CPE, PPE and work organization
2	•Health surveillance
2	•Workplaces. Signage. Emergencies.
2	Work related stress
2	•The safety procedures with reference to the specific risk profile.
2	•Exodus and fire procedures. Organizational first aid procedures. Other risks

**MODULE**  
**GENERAL AND APPLIED HYGIENE**

*Prof.ssa PALMIRA IMMORDINO*

**SUGGESTED BIBLIOGRAPHY**

Igiene, medicina preventiva e salute globale. DATA PUBBLICAZIONE: Gennaio 2022; ISBN: 978-88-299-3245-0; AUTORI: Auxilia - Pontello

<b>AMBIT</b>	10350-Scienze della prevenzione e dei servizi sanitari
<b>INDIVIDUAL STUDY (Hrs)</b>	30
<b>COURSE ACTIVITY (Hrs)</b>	20

**EDUCATIONAL OBJECTIVES OF THE MODULE**

Basic knowledge of the principle of statistics and epidemiology (particularly the main types of epidemiological studies) Basic knowledge of primary, secondary and tertiary prevention. Basic knowledge of the infectious diseases primary prevention (Sicilian Regional Immunization schedule, vaccines available, safety, efficacy of vaccines and possible adverse events related to vaccinations) Basic knowledge of chronic degenerative disease prevention (primary, secondary - screening and tertiary - rehabilitation prevention strategies)

**SYLLABUS**

Hrs	Frontal teaching
2	Principles of statistics, demography and epidemiology
2	Epidemiological studies (observational, case control, cohort, randomized clinical trial, etc...)
2	Primary, secondary and tertiary prevention
2	Prevention, control, elimination and eradication of infectious diseases. Epidemiology, primary and secondary prevention of infectious diseases.
6	Sicilian Regional Immunization schedule. Vaccines available and offered to general population. Safety and efficacy of vaccines and possible adverse events related to vaccinations.
2	Primary and secondary prevention of chronic degenerative diseases (alcohol, smoking, nutrition, physical activity).
2	Secondary prevention of oncological diseases (screening)
2	Tertiary prevention and rehabilitation

## MODULE MICROBIOLOGY

*Prof.ssa TERESA MARIA ASSUNTA FASCIANA*

### SUGGESTED BIBLIOGRAPHY

Sherris Microbiologia Medica EMSI

La Placa Principi di Microbiologia Medica EdiSes

De Grazia S, Giammanco G, Ferraro D – Microbiologia e microbiologia clinica per infermieri. Casa Editrice Pearson

<b>AMBIT</b>	10338-Scienze biomediche
<b>INDIVIDUAL STUDY (Hrs)</b>	30
<b>COURSE ACTIVITY (Hrs)</b>	20

### EDUCATIONAL OBJECTIVES OF THE MODULE

To acquire a basic knowledge of the world of microorganisms, including their structural and biological characteristics and the interactions between microorganisms and host. To know and understand the mechanisms of the pathogenic action of microorganisms in general and of some important pathogens in particular. Students will learn some applications of microbiology, focusing in particular on methods for the control of microbial infections and the general principles of microbiological diagnosis. Students will need to demonstrate to be able to relate microbiological knowledge to nursing practice.

## SYLLABUS

Hrs	Frontal teaching
1	Structure and replication of bacteria
2	Structure and replication of fungi; pathogenicity factors of fungi.
3	Structure and replication of viruses. Virus-cell and virus-host interactions. Way of transmission of microorganisms
2	Antimicrobial agents and vaccines.
2	Principle of microbiological diagnosis
10	Principals pathogens causing respiratory, gastroenteric and urogenital diseases (Streptococcus spp; Staphylococcus spp; Neisseria spp; Micobacterium spp; Clostridium spp; Enterobacterium spp; Treponema spp. Campylobacter spp. Herpesvirus; Papillomavirus; hepatitis viruses; Retroviruses; Toxoplasma gondii; )