

Integrated course in **PRACTICAL MEDICINE II**

II° YEAR	SSD TEACHING	TEACHING MODULE	SSD TEACHER	TEACHERS	ECTS
PRACTICAL MEDICINE II	MED/04	Techniques in General Pathology	MED/04		1
	BIO/09	Functional Evaluation	BIO/09		1
ECTS credits 3 <i>Coordinator</i>	BIO/09	Functional Evaluation	BIO/09		1
	BIO/10	Biochemical Techniques	BIO/10		1
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Gianfranco Bosco					

TRAINING OBJECTIVES AND EXPECTED LEARNING OUTCOMES

Understand the general principles of the scientific method through observation and participation in experimental laboratory activities. Acquire knowledge of first aid procedures also through the use of a defibrillator.

The expected learning outcomes are consistent with the general provisions of the Bologna Process and the specific provisions of Directive 2005/36 / EC. They can be found within the European Qualifications Framework (Dublin descriptors) as follows:

1. Knowledge and understanding

- Knowledge and understanding of the main first aid manoeuvres.
- Knowledge of the operating principles and use of a defibrillator.
- Knowledge and understanding of the problems related to the setting of a scientific problem
- Knowledge and understanding of issues related to the collection and analysis of experimental data.

2. Applied knowledge and understanding

- Know how to identify and carry out first aid manoeuvres in an emergency situation.
- Know how to perform defibrillation.
- Know how to formulate a scientific question on the basis of pre-existing experimental data.

3. Autonomy of judgement

- Recognise the importance of a thorough knowledge of the topics in accordance with appropriate medical education.
- Identify the fundamental role of correct theoretical knowledge of the subject in clinical practice.

4. Communication

- Explain the topics clearly and coherently.
- Use of appropriate scientific language consistent with the topic of discussion.

5. Learning Ability

- Recognise the possible applications of skills obtained in future careers.
- Evaluate the importance of acquired knowledge in the general process of medical education.

PREREQUISITES

Knowledge of Physics, Chemistry, Biochemistry, Human Anatomy, Physiology and General Pathology.

PROGRAMME

The activities of the second year of practical medicine include a series of seminar activities and possible laboratory attendance to illustrate the general principles of the experimental method and the basic life support course.

BASIC LIFE SUPPORT COURSE: The main objective of the BLS is to prevent hypo-anoxic brain damage through cardiopulmonary resuscitation (CPR) manoeuvres, which consist in maintaining airway patency, ensuring the exchange of oxygen with ventilation and supporting circulation through external cardiac massage. The function of the Semi-Automatic External Defibrillator (AED) is to correct the cause of cardiac arrest directly when it is caused by

Ventricular Fibrillation (VF) or Ventricular Tachycardia (TV) without pulse. In this scenario, the BLS-D creates the conditions for the restoration of a valid heart rhythm and the recovery of the subject in arrest. Students at the end of the course should be able to recognise a cardiac arrest condition, be able to assess the victim's unconsciousness, act in safety to perform cardiorespiratory resuscitation, implementing artificial ventilation and an external cardiac massage. They will also develop the ability to use an external semi-automatic defibrillator, including knowledge regarding the safety regulations of the instrument.

RECOMMENDED TEXTS

No specific texts are required.



METHODS OF CONDUCT AND TEACHING METHODS ADOPTED

Attendance is foreseen in the laboratory, department, multimedia seminars etc.

Attendance is compulsory.

ASSESSMENT METHODS AND CRITERIA FOR VERIFYING LEARNING

Assessment of students' practical activities and a written test to verify the knowledge acquired.

COURSE CATALOGUE OPTIONAL COURSES TO BE CHOSEN BY STUDENTS

The elective teaching activities that can be chosen by students are offered on the Integrated Course and include Seminars, Research Internships, Departmental Internships and Monographic Courses. The subjects of these A.D.E. courses are not exam subjects. The acquisition of the hours allocated to the A.D.E. activities takes place only through a compulsory attendance of 100% and eligibility is foreseen.

EXAM COMMISSION

The Commission for the examinations of the integrated course is composed of the Chairman, the holders of the relevant scientific disciplines, the teachers of the related disciplines and the subject operators.

STUDENT AFFAIRS OFFICE OF THE INTEGRATED COURSE

<i>Contact the Didactic Office of the Degree course:</i>		
Dr. M.Luisa Romiti	romiti@med.uniroma2.it	06 72596041
Dr. M. LoPonte	loporte @uniroma2.it	06 72596041

TEACHING CONTACTS

Gianfranco Bosco (Coordinator)	bosco@med.uniroma2.it	06 72596420