





- Leukocyte infiltrate as a new therapeutic target;
- Innovative methods to modulate the immune response;
- Microbiome;
- Next-generation vaccines;
- Single cell sequencing;
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- Concepts of pharmacokinetic and pharmacodynamics tolerance;
- Classification of drugs;
- Depressant substances: mechanisms of action, effects, classic and innovative pharmacological treatment;
- Factors underlying anxiety and depression;
- Classical pharmacology and innovative approaches to manage anxiety and depression;
- General concepts of drug interactions;
- Specific examples of drug interactions.;

### **General Nursing Sciences, General Clinics and Paediatrics MED/45**

- "In-novus" and new perspectives for nursing: technological and organisational innovation towards 4.0 nursing. The human component: man governing the processes. Research as the first step towards innovation.
- The contribution of innovation in nursing in achieving health outcomes for the patient.
- Role of nurses in innovation: promoters and creators, not just users. Responsibility of innovation and its integration into nursing care planning.
- Interdisciplinarity in innovation: Nursing competencies and their contribution in the care and diagnosis team.
- Nursing and genomics: nursing perspectives and new skills.
- Nursing and artificial intelligence: development and application to the nursing care process.
- Drafting of a preliminary project of innovation in nursing.

### **Teaching and learning activities and teaching methods**

Lectures, group work, individual and group essays.

### **Assessment method**

The final exam will consist in a written examination with multiple-choice answers.

The written exam is divided into 7 blocks, each consisting of 15 questions, for a total of 105 questions.

In order to pass the written examination, 9 correct answers out of 15 questions in at least 5 modules are required. In the other two modules, a minimum of 7 correct answers out of 15 questions is required.



For Internal Medicine MED/08 and General Nursing Sciences, General Clinics and Paediatrics MED/45 students will have 4 hours during the lessons to prepare a project under the supervision of the professor. A positive assessment of the project entitles the student to take a shorter test of 11 questions. The student must answer correctly 5 out of 11 questions, having already scored +4 on the total mark thanks to the project.

The marks for each module (1 point for each correct answer) will contribute to the definition of a single final mark, out of 30.

In order to obtain the "cum laude" the student will have to reach a mark of at least 101/105 (101 correct answers out of 105 questions). The results will be published within 15 working days.

## **Recommended readings**

Materials provided by the professor.

### **General Nursing Sciences, General Clinics and Paediatrics MED/45**

- Wilkinson J. Processo infermieristico e pensiero critico. CEA. Milano
- Schumpeter, Teoria dello sviluppo economico, 1919
- Unleashing nurse-led Innovation, BDO & Penn Nursing, 2019
- Romanelli et Al. La genomica in medicina: attualità e prospettive per infermieristica. AIR. 2010.