



## MEDICINE AND SURGERY

**Course: Pediatrics**

**Year: 5<sup>th</sup>**

**Period: 2<sup>nd</sup> semester**

**Credits: 6**

### **Objectives**

The pediatric undergraduate course includes a comprehensive teaching program with lectures, small groups discussions, simulation activities and bedside clinical teaching committed to providing the students with the general knowledge and fundamentals skills of pediatric care. The course is aimed to furnish students with fundamentals for taking a history from the parent(s) and/or child, and perform a competent clinical examination; to know about common conditions of childhood as well as less common but important conditions; to recognize procedures for patient management and finally to understand growth and development, and the impact illness may have on growth and development.

**At the end of the course, students should have acquired general skills in:**

- communicating adequately with children and their parents
- taking a good pediatric history
- examining the four ages of childhood, newborn, infant, toddler and older child.
- constructing a reasonable differential diagnosis
- planning an appropriate investigation and management for the topics developed during the course

**At the end of the course, students should have acquired Knowledge and Understanding of:**

- growth, development and nutrition, from neonatology to adolescent hood;
  - assessment, diagnosis and management of the main acute and chronic illness;
  - assessment diagnosis and management of the most common pediatric infectious diseases;
- the prevention of illness by health promotion, immunization, by screening tests such as the Guthrie test at birth, developmental assessment, hearing tests and other developmental examinations.

### **Contents**

#### **Pediatrics**

Topic 1 : Introduction to paediatrics.

Topic 2: Neonatology



- Topic 3: Respiratory tract infections and asthma
- Topic 4: Gastroenterology
- Topic 5: Neurology and Neurodysfunction
- Topic 6: Emergency and critical care
- Topic 7: Nephrology
- Topic 8: Nutrition and metabolic syndrome. Diabetes
- Topic 9: Endocrinology. Disorders of pubertal development
- Topic 10: Vaccine-preventable diseases
- Topic 11: Musculoskeletal Diseases
- Topic 12: Immunomediated Diseases

### **Child neuropsychiatry**

- Topic 1: Neurodevelopmental Disorders
- Topic 2: Child Psychiatric Disorders

### **Teaching Methods**

- Lectures
- Synchronous sessions
- Simulation activities
- Bedside activities

The main purpose of lectures is to transfer knowledge to students by guiding them through the most relevant subjects of the disciplines included in the course. In addition to the recorded lessons, ppt presentations, video clips and articles related to the main focuses of the course will be uploaded to the LMS system.

The synchronous sessions (On Campus) will be organized as collaborative activities for small/medium sized groups (e.g. discussion of clinical cases in the presence of a panel of discussants). These sessions will be an opportunity to clarify the doubts related to what is proposed in the lectures as well as to activate and solidify knowledge acquired during lectures and independent study, in a collaborative learning setting. Participation is mandatory.

The Simulation activities and unfolding case study is a comprehensive and interactive program, aimed at consolidate knowledge, promoting practical skills and develop critical thinking in the field of pediatric competences. Students demonstrate skills using the simulator. Patient data are



presented as the situation progresses. Questions are posed to encourage decision making. Participation is mandatory.

The Bedside activities are planned to consolidate knowledge, promoting practical skills in history taking and physical examination and developing abilities to identify and describe the most appropriate diagnostic and therapeutic approach to the main pediatric pathologies. Participation is mandatory.

### **Verification of learning**

The exam consists of a written assessment by multiple-choice questions to evaluate the student's knowledge on the topics developed during the course.

### **Texts**

Nelson Textbook of Pediatrics. 20<sup>th</sup> edition - Elsevier

Goodman R & Scott S Child and Adolescent Psychiatry. 3<sup>rd</sup> edition, Wiley-Blackwell