V year (2nd semester) **A.Y. 2025-26**	Scientific Field	**PEDIATRIC SCIENCES**	TUTOR	ECTS
	MEDS14/B	Pediatric Surgery	Castagetti Marco	1
	MEDS/20A	General and Specialised Pediatrics	Cianfarani Stefano	1
ROSSI P. **COORDINATOR**	MEDS/20A	General and Specialised Pediatrics	Paolo Palma	1
	MEDS/20A	General and Specialised Pediatrics	Villani Alberto	1
	MEDS/20A	General and Specialised Pediatrics	Cotugno Nicola	1
	MEDS/20B	Neuropsichiatry	Mazzone Luigi	1
			TOT	6

SPECIFIC AIMS	The primary goal of the pediatric curriculum is to ensure that all students have a foundation of core pediatric knowledge about common clinical conditions of childhood as well as less common but important disorders. The aim is to equip students with the necessary clinical skills that will allow them to provide proficient, developmentally appropriate and compassionate care for pediatric patients. The course will cover aspects of growth, morbidity-mortality in Pediatrics, nutrition, fluid balance, acute diseases, immune disorders, infectious diseases, allergic disorders, rheumatic diseases, gastroenterology, respiratory system, nephrology, neurology and endocrinology. The course comprises 50 hours of lectures flanking modules, problem-based learning, tutorials and a variety of small group clinical teaching. Each student will spend 1 to 4 weeks in in both in- and out-patients clinics at ‘Bambino Gesù’ Children’s Hospital in order to maximize clinical learning.

PROGRAM **PEDIATRIC SCIENCES**	- The newborn infant and common diseases in the newborn period - Physical examination of the child - Growth and development (principles of anthropometry) - Pathophysiology of body fluids - Principles of pediatric immunology - Approach to the child with recurrent infections - Congenital immunodeficiency - Acquired immunodeficiency - Allergic disorders - Rheumatic diseases of childhood - Management of the child with sepsis - Shock - Infections of central nervous system - Measles and rubella - Mumps - Varicella-zoster - Parvovirus and herpes virus infections - Epstein-Barr virus - Cytomegalovirus - Gastroenteritis (viral and bacterial) - Pneumonia - Tuberculosis - Preventive measures - Gastroesophageal reflux - Acute diseases of the digestive tract - Chronic diseases of the digestive tract - Disorders of liver - Disorders of exocrine pancreas - Diseases of upper respiratory tract - Diseases of lower respiratory tract - Congenital heart diseases - Acquired heart diseases - Anemias - Bleeding disorders - Leukemia - Lymphoma - Solid tumors

	- Glomerulonephritis - Nephrotic syndrome - Urinary tract infections - Hypopituitarism - Diabetes insipidus - Diabetes mellitus - Disorders of thyroid gland - Disorders of adrenal gland - Disorders of puberty - Seizures - Neurocutaneous syndrome - Elements of Pediaric Pharmacology

EXAM COMMISSION	The Coordinator, full Professors of the disciplines, Professors of similar disciplines, Specialists of the subject, compose the exam Commission of the Integrated Course.

Cianfarani Stefano President
Villani Alberto
Cotugno Nicola
Mazzone Luigi
Palma Paolo
Castagnetti Marco

CONTACTS

Cianfarani Stefano	stefano.cianfarani@uniroma2.it	06 69593074
Villani Alberto	alberto.villani@uniroma2.it	06 68592744
Palma Paolo	paolo.palma@uniroma2.it	06 68592697
Cotugno Nicola	cotugno@med.uniroma2.it	06 68592184
Mazzone Luigi	luigi.mazzone@uniroma2.it	06.2090.2721
Castagnetti Marco	marco.castagnetti@opbg.net	06 68592402

PREREQUISITES: Previous knowledge and competence in the following subjects: Biology and Genetics, Pharmacology, Systemic Pathology 2, Immunology and Immunopathology, Microbiology, Systematic Pathology 3.

The specific learning outcomes of the program are coherent with the general provisions of the Bologna Process and the specific provisions of EC Directive 2005/36/EC. They lie within the European Qualifications Framework (Dublin Descriptors) as follows:

1. **Knowledge and Understanding**

- Asses the physiologic principles that govern the function of the main body systems and the alterations induced by functional and structural abnormalities.
- Describe the main aspects of general pathology and explain the pathophysiologic mechanisms underlying the concept of benign and malignant disorders as well as reversible and irreversible cellular damage.
- Demonstrate knowledge about the mechanism of cell cycle maintenance and regulation; the factors affecting it and their consequences.
- Understand the core principles of acute and chronic inflammation in relation to the molecular, systemic and clinical aspects.
- Relate the general principles, terminology, and modes of spread of disease to the study of Systemic Pathology and the ways in which pathology contributes to the understanding of patient presentation in a clinical setting.
- Focus on each organ and describe the pathogenesis of the main disease.
- Correlate basic disease states studied at a cellular and gross anatomical level with the overt clinical signs and symptoms seen in those disorders.
- Learn to interpret appropriate laboratory and diagnostic studies.

2. **Applying Knowledge and Understanding**

- Apply the diagnostic procedure in pathology, through introduction of the differential diagnostic methods at the clinical level.
- Apply a basic understanding of histopathology and morbid anatomy to the examination of microscopic sections and gross specimens, respectively, displaying pathological processes.
- Provide a differential diagnosis based on specific clinical data, providing a comprehensive explanation of the underlying reasoning.
- Learn the practical aspects of the pathologic diagnostic instruments, when to use them and how to perform them.

3. **Making Judgements**

- Recognize the importance of an in-depth knowledge of the topics consistent with a proper medical education.
- Identify the fundamental role of a proper theoretic knowledge of the subject in the clinical practice.

4. **Communication Skills**

- Present the topics orally in an organized and consistent manner.
- Use of proper scientific language coherent with the topic of discussion.

5. **Learning Skills**

- Identify the possible use of the acknowledged skills in the future career.
- Assess the importance of the acquired knowledge in the overall medical education process.