

Faculty of Medicine / MEDICINE / PAEDIATRICS

Course:	PAEDIATRICS			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
11874	Mandatory	10	12	4+2.5+0
Programs	MEDICINE			
Prerequisites	No prerequisites required.			
Aims	The goal of pediatrics classes is to provide the student with knowledge and skills that will help in further care for the health of children, who represent about 20-30% of the population. In this clinical discipline, the unity of the three parts of medical activity can be seen most fully: prevention, treatment and habilitation of impaired functions. (principle of unique, unitary or holistic medicine).			
Learning outcomes	After completing the two-semester course in Pediatrics, medical student should have the following learning outcomes: 1. Knows the specifics of a child's organism and the principles and milestones of a child's physical, intellectual, emotional and social growth and development, from birth to adolescence. 2. Is capable to assess and analyze the health status of children and recognize environmental factors that affect children's health. 3. Is qualified to assess the growth and development and disorders of the child's growth and development. 4. Recognizes and is qualified to solve emergency situations in pediatrics and provide cardiopulmonary resuscitation for children of all ages. 5. Is qualified to recognize, diagnose and treat the most important conditions and diseases of a newborn. 6. Knows how to recognize the most common hereditary diseases and to set indications for genetic counseling. 7. Knows how to recognize, diagnose and treat the most important conditions and diseases in the field of general pediatrics. 8. Knows and applies the principles of stimulation of early child development and prevention and early detection of disorders in childhood.			
Lecturer / Teaching assistant	Full professor Olivera Miljanović, MD, PhD; full professor Vesna Miranović, MD, PhD, assistant professor Lidija Banjac, MD, PhD and teaching assistants			
Methodology	Lectures, workshops, simulations, colloquia, seminars, exercises and consultations.			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Introduction to Pediatrics. Social pediatrics and child health care S: Anamnesis and status in pediatrics			
I week exercises	Introductory exercise – orientation on the principles of practical teaching			
II week lectures	Children's growth S: Disorders of growth and puberty			
II week exercises	Pediatric history taking			
III week lectures	Child development – milestones in certain periods of childhood S: Vaccination			
III week exercises	Pediatric status: child examination			
IV week lectures	Developmental delay. Children with special needs S: Upper respiratory tract infections Cough. Antibiotic therapy in children			
IV week exercises	Assessment of growth and development. Use of growth charts.			
V week lectures	Newborn. Adaptation to extrauterine life S: Neonatal resuscitation. Care of a high-risk newborn			
V week exercises	Assessment of vitality and gestational age of the newborn			
VI week lectures	Premature newborn. Neonatal jaundice S: Metabolic disorders in newborns (congenital and acquired)			
VI week exercises	Examination of the newborn: clinical and neurological status			
VII week lectures	Hereditary diseases. Approach to a child with dysmorphism S: Communication in pediatrics			
VII week exercises	Solving tasks - examples of communication in pediatrics			
VIII week lectures	Perinatal medicine and prenatal diagnostics S: Inborn errors of metabolism, detection and treatment options			
VIII week exercises	Introduction to the principles of genetic counseling and information			
IX week lectures	Gastroenterology I S: Vomiting in childhood: reflux, symptom, disease			
IX week exercises	Abdominal examination. Examination of a child with gastroenterological complaints.			
X week lectures	Gastroenterology II S: Bleeding from the digestive system			
X week exercises	Monitoring: per os intake, content of gastric suction, stool.			
XI week lectures	Nutrition and eating disorders S: Eating disorders: obesity, anorexia and bulimia			

XI week exercises	Assessment of child nutrition. Macroscopic examination of stool
XII week lectures	Water and electrolytes. Disorder of acid-base balance S: Failure to thrive
XII week exercises	Assessment and monitoring of: fluid intake and loss; degree of dehydration and acid-base status.
XIII week lectures	Emergency pediatrics I: The most common life threatening conditions in children S:. Respiratory and circulatory insufficiency
XIII week exercises	Solving tasks: cardiopulmonary resuscitation in children
XIV week lectures	Emergency pediatrics II: Cardiopulmonary resuscitation S: Prevention of injuries and child abuse
XIV week exercises	Simulated cardiopulmonary resuscitation on mannequins
XV week lectures	Student questions and consultations S: Colloquium - test from the materials of the 9th semester
XV week exercises	Repetition of practical lessons of the 9th semester
XVI week lectures	Heart and blood vessels diseases S: Myocarditis and cardiomyopathies
XVI week exercises	Examination of the child in cardiology: auscultation; heart sounds and murmurs in patients with congenital heart defects.
XVII week lectures	Kidney and urogenital tract diseases S: Urinary tract infections
XVII week exercises	History and examination in pediatric nephrology. Interpretation of urine and kidney function analysis
XVIII week lectures	Infectious diseases in children S: A febrile child
XVIII week exercises	Recognition and classification of rash and infectious conditions in children.
XIX week lectures	Respiratory system diseases I S: Asthma in children
XIX week exercises	Assessment of Respiratory function and respiratory insufficiency degrees assessment.
XX week lectures	Respiratory system diseases II S: Cystic fibrosis
XX week exercises	Functional tests in pulmonology, spirometry, asthma status assessment.
XXI week lectures	Immunodeficiency S: Differential diagnosis of cyanosis. Kawasaki disease
XXI week exercises	Immunodeficiency states: diagnosis, laboratory characteristics.
XXII week lectures	Diseases of the nervous system I S: Allergic diseases in children
XXII week exercises	Diagnosis and classification of headaches and epilepsy in children.
XXIII week lectures	Diseases of the nervous system II S: Neuromuscular diseases. Neuro-cutaneous syndromes
XXIII week exercises	The most common neurodevelopmental disorders and neurological diseases in children.
XXIV week lectures	Rheumatology – Systemic connective tissue diseases S: ECG in children. Heart rhythm disorders
XXIV week exercises	Examination of a child with rheumatological disorders. Diagnostic protocols.
XXV week lectures	Anemia. Disorders of hemostasis and coagulopathy S: Lymphadenopathy and chest pain syndrome
XXV week exercises	Review and diagnostic protocols in hematology patients, interpretation of hematological analyses.
XXVI week lectures	Malignant diseases in children S: Bones and joints diseases and deformities
XXVI week exercises	Examination and diagnostic protocols in oncology patients.
XXVII week lectures	Endocrinology I S: Type 1 diabetes
XXVII week exercises	Child with DM type 1: examination, diagnosis, basic principles of therapy
XXVIII week lectures	Endocrinology II S: Rickets
XXVIII week exercises	The most common disorders in child endocrinology: presentation of patients, review, diagnostic protocols.
XXIX week lectures	L: Health protection of a sick child. Dosing and application of medicines in pediatrics. S: Sepsis and septic shock.
XXIX week exercises	Therapeutic protocols for urgent and most common diseases in pediatrics.
XXX week lectures	Repetitorijum praktične nastave X semestra
XXX week exercises	Repetitorium of practical lessons of the X semester.
Student workload	Classes and final exam: (8 hours) x 16 = 128 hours Necessary preparations before the beginning of the semester (administration, enrollment, certification): (8 hours) x 2 = 16 hours Total workload for the course: 6 x 30 = 180 hours Load structure: 128 hours (teaching and final exam) + 16 hours (preparation) + 36 hours (supplementary work)

Per week			Per semester			
12 credits x 40/30=16 hours and 0 minuts 4 sat(a) theoretical classes 0 sat(a) practical classes 2 excercises 9 hour(s) i 30 minuts of independent work, including consultations			Classes and final exam: 16 hour(s) i 0 minuts x 16 =256 hour(s) i 0 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 16 hour(s) i 0 minuts x 2 =32 hour(s) i 0 minuts Total workload for the subject: 12 x 30=360 hour(s) Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) 72 hour(s) i 0 minuts Workload structure: 256 hour(s) i 0 minuts (cources), 32 hour(s) i 0 minuts (preparation), 72 hour(s) i 0 minuts (additional work)			
Student obligations			Attending classes, actively participating in exercises and seminars, independent preparation of materials for seminars, solving set problems independently and in a group.			
Consultations			After lectures, seminars and exercises, online and live in agreement with the professor and teaching assistant.			
Literature			Janković B, Perišić V. (urednici) Pedijatrija - udzbenik za studente medicine, 2. izd. Beograd - Medicinski fakultet Univerziteta u Beogradu, 2014. Beograd - Službeni glasnik. Additional literature: 1. Janković B, Milenković A, Milovanović D (urednci). Urgentna pedijatrija u vanbolničkim uslovima: priručnik za lekare primarne zdravstvene zaštite, 2002. Unicef Beograd, 2. Lissauer T, Clayden G. Illustrated Textbook of Paediatrics. Fourth ed. 2012. Mosby, Elsevier Ltd			
Examination methods			Class attendance: 5 points Seminar: 5 points Colloquium in pediatric propaedeutics: 5 points. Two theoretical colloquiums: 20 points (one per semester, 10 points each) Final exam: 65 points Grade: A B C D E F Points: : 90-100 80-89 70-79 60-69 50-59 < 50 Passed exam implies cumulatively accumulated at least 50 points			
Special remarks			None			
Comment			None			
Grade:	F	E	D	C	B	A
Number of points	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points