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| <b>Name of the course</b>                                    | <b>Pediatrics</b>   |                       |                                  | <b>Code</b>                                 | MSE602                |
| <b>Type of study program:</b>                                | Integrated university study program, Medicine   |                       |                                  | <b>Year of study:</b>                       | 6                     |
| <b>Credits (ECTS):</b>                                       | 12  | <b>Semester:</b>      | XI                               | <b>Number of hours per semester (l+s+e)</b> | 200<br>(50+60+90)     |
| <b>Status of the course:</b>                                 | obligatory  | <b>Preconditions:</b> | Passed all exams of the 5th year | <b>Comparative conditions:</b>              | /                     |
| <b>Access to course:</b>                                     | Sixth year students   |                       |                                  | <b>Hours of instructions:</b>               | According to schedule |
| <b>Course teacher:</b>                                       | Prim. Marija Šandrak Beslač, MD, PhD  |                       |                                  |   |                       |
| <b>Consultations:</b>  | As agreed with students   |                       |                                  |   |                       |
| <b>E-mail address and phone number:</b>                      | marija.sandrak@mef.sum.ba   |                       |                                  |   |                       |
| <b>Associate teachers</b>                                    | Acc. prof. Senka Mesihović Dinarević, MD, PhD<br>Prof. Andrea Cvitković Roić, MD, PhD<br>Prof. Marija Jelušić Dražić, MD, PhD<br>Prof. Joško Markić, MD, PhD<br>Prof. Igor Prpić, MD, PhD<br>Prof. dr. sc. Ernest Bilić, MD, PhD<br>Assist. prof. Sabina Terzić, MD, PhD<br>Assist. prof. Ivan Pavić, MD, PhD<br>Assist. prof. Iva Hojsak, MD, PhD<br>Ljubica Odak, MD, PhD<br>Prim. Ana Boban Raguž, MD, PhD<br>Prim. Ivona Letica, MD<br>Milena Oreč, MD<br>Borko Rajič, MD<br>Vladimir Jegdić, MD<br>Ante Damjanović, MD<br>Anita Kolobarić, MD<br>Svjetlana Mikulić, MD<br>Iva Mandić, MD   |                       |                                  |   |                       |
| <b>Consultations:</b>  | As agreed with students   |                       |                                  |   |                       |
| <b>E-mail address and phone number:</b>                      |   |                       |                                  |   |                       |
| <b>The aims of the course:</b>                               | The aim of the course is to acquaint students with the basics pediatrics as a discipline and familiarize them with the basic skills needed to work with children in a primary medical care environment.   |                       |                                  |   |                       |
| <b>Learning outcomes (general and specific competences):</b> | <p><b>General outcomes:</b></p> <ul style="list-style-type: none"> <li>• Demonstrate the ability to upgrade one's own skills and ability to learn and improve knowledge with improvement and modification of already acquired knowledge under the pressure of new scientific evidence.</li> </ul> <p><b>Specific outcomes:</b></p> <ul style="list-style-type: none"> <li>• Understand the basic concepts related to children of different ages (infant, young child, adolescent) as an object of pediatrics interest.</li> <li>• Understand the measures of disease prevention and treatment, as well as rehabilitation of sick children.</li> <li>• Understand the importance of vital statistics and basic aspects maternal and child health care organizations.</li> <li>• Describe the implementation of newborn screening and vaccination, and other measures of prevention and preservation of children's health.</li> <li>• Understand the need for and supervision of normal growth and development of children.</li> <li>• Define, describe and classify the casuistry of the pediatrics according to the functions and diseases of the main organ systems.</li> <li>• Define, describe and explain the most common acute and chronic diseases of children age so that students as future doctors of general medicine would know independently recognize and solve the problems of sick children at the level of ambulatory work, i.e. primary health care protection.</li> <li>• Demonstrate the ability to solve the most common emergency situations in pediatric medicine.</li> </ul> |                       |                                  |   |                       |

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| <b>Course content (Syllabus):</b>  | The teaching of the pediatrics course consists of 200 hours that cover 12 teaching units through lectures, exercises and seminars: social medicine, neonatology, immunology and hematology, nephrology, cardiology, pulmonology, endocrinology, gastroenterology, genetics, neurology, pediatric orthopedics and emergencies  |                                    |                              |                                |
| <b>Format of instruction (mark in bold)</b>  | <b>Lectures</b>   | <b>Exercises</b>                   | <b>Seminars</b>              | <b>Independent assignments</b> |
|  | <b>Consultations</b>  | Work with mentor                   | Field work                   | Other                          |
|  | <p>Note: Lessons from each unit begin with morning exercises which introduce the student to the practical aspect of recognizing and treating certain diseases of children's pathology. In the exercises with assistants, in addition to practical work, they have daily checks of previously acquired knowledge as well as practicing the approach to the patient and his therapy. The seminars are interactive, all groups have the opportunity to prepare a current programmed case study and practice the process of differential diagnosis. The working day ends with a block of lectures from the programmed unit.</p> <p>Lectures and seminars will be held at the lecture hall of the School of Medicine Mostar. Clinical exercises (practicals) will be organized in small groups according to the schedule and will be held at the Pediatric Clinic, University Clinical Hospital Mostar. Practical will be held in the morning and lectures and seminars will be held afterwards in blocks of three or four hours, depending on the course unit.</p> <p>Class attendance and student participation in all forms of classes are compulsory in accordance with the Rulebook of the University of Mostar School of Medicine. Accordingly, student attendance at lectures, seminars, and practicals will be regularly checked. Only justifiable absences due to, for example, illness will be acceptable within the limits allowed and according to the Ordinance on Studies.</p> |                                    |                              |                                |
| <b>Student responsibilities</b>  | The student is obligated to prepare in advance the predefined material that is being discussed on seminars and evaluate on practicals. The teacher/course coordinator are obliged to inform students in advance about the seminar they should prepare. Students are required to wear white coats and masks and have a stethoscope during practicals. The teacher/course coordinator continuously evaluates student participation throughout seminars and practicals (demonstrated knowledge, the ability to correlate a patient` history, physical status, and diagnostic procedures into disease diagnose and appropriate treatment management). Student activity during classes (lectures, seminars, practicals) is certified in the daily work log.  |                                    |                              |                                |
| <b>Screening student work (mark in bold)</b>   | <b>Class attendance</b>   | <b>Class participations</b>        | Seminar essay                | <b>Practical training</b>      |
|  | <b>Oral exam</b>  | <b>Written exam</b>                | <b>Continuous assessment</b> | Essay                          |
| <b>Detailed evaluation within a European system of points</b>  |   |                                    |                              |                                |
| <b>STUDENTS RESPONSIBILITIES</b>   | <b>HOURS</b>  | <b>PROPORTIONS OF ECTS CREDITS</b> | <b>PROPORTIONS OF GRADE</b>  |                                |
| Attendance and engagement in classes   | 200   | 6,7                                | 0 %                          |                                |
| Written exam   | 70  | 2,3                                | 50 %                         |                                |
| Practical exam   | 30  | 1                                  | 0 %                          |                                |
| Oral exam  | 60  | 2                                  | 50 %                         |                                |
| Total  | 360   | 12                                 | 100 %                        |                                |
| Further clarification:   |   |                                    |                              |                                |
| <p>The written test consists of 50 theoretical and casuistic style questions where the student chooses the correct answer from the five offered answers. The test is 50% of the grade. In the practical exam, the student tests knowledge of the practical aspects of recognizing and treating children with the assistant. He receives one patient, and several aspects are important: history, physical status, differential diagnosis, analysis of laboratory and other tests. The share in the total grade is 0%, but without passing the practical exam, it is not possible to take the oral exam. The oral exam consists of five questions that the student gets by drawing cards from those prescribed by the curriculum and related to the textbook, and given on the website of the department. The student must know</p> |   |                                    |                              |                                |

the answers to all questions, and the grade is affected by the quality of the answers, i.e. knowledge of pathophysiological processes, differential diagnosis and interpretation of findings. The oral exam contributes 50% to the overall grade. Thus, the total grade is obtained by summing the grades from the written and oral parts of the exam and dividing it by the number two, and the final grade is obtained, which is entered in the report on the passed exam.

**Final score:**

The final assessment is carried out according to the Regulation of Studies of the University of Mostar and applies to all study groups. According to the Regulations on studying final grade is obtained as follows:  
0-54 % insufficient (1); 55-66 % sufficient (2); 67-78 % good (3); 79- 90 % (very good 4); 91-100 % excellent.

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| <b>Required literature:</b>                    | <ul style="list-style-type: none"> <li>- Selected chapters from Nelson’s Textbook of Pediatrics, 21st ed. Elsevier, 2019.</li> <li>- Lissauer T, Carroll W, eds. Illustrated Textbook of Paediatrics, 6th edition, Elsevier, 2021.</li> </ul>  |
| <b>Optional literature:</b>                    | <ul style="list-style-type: none"> <li>- Selected papers from medical books and journals</li> </ul>  |
| <b>Additional information about the course</b> | <p>Method of monitoring the quality of teaching:</p> <ul style="list-style-type: none"> <li>- Student survey</li> <li>- Analysis of teaching quality by students and teachers</li> <li>- Analysis of passability in exams</li> <li>- Report of the Office for Teaching Quality</li> <li>- Self-evaluation and external evaluation (team visits quality control)</li> </ul> |

Annexes: calendar classes

| <b>The number of teaching units</b> | <b>TOPICS AND LITERATURE</b>  |
|-------------------------------------|---|
| <b>I.</b>                           | Title: Social pediatrics  |
|                                     | Short description: Morbidity and mortality of children, health indicators children's rights within society, child psychology  |
|                                     | Literature: Literature: mandatory and supplementary   |
| <b>II.</b>                          | Title: Neonatology  |
|                                     | Short description: physiological aspects of adaptation, pathological conditions, assessment of vitality, assessment of age, reflexes.   |
|                                     | Literature: mandatory and supplementary   |
| <b>III.</b>                         | Title: Hemato-oncology of childhood   |
|                                     | Short description: Development and functions of the hematopoietic and immune system; anemias, leukemias, solid tumors, hemostasis disorders, immunodeficiencies, interpretation of lab findings   |
|                                     | Literature: mandatory and supplementary   |
| <b>IV.</b>                          | Title: Pediatric endocrinology  |
|                                     | Short description: Diabetes mellitus I and II, diseases of the thyroid gland, pituitary gland, adrenal gland, gonads, basic principles of electrolyte and acid-base imbalance therapy.  |
|                                     | Literature: mandatory and supplementary   |
| <b>V.</b>                           | Title: Pediatric nephrology   |
|                                     | Short description: Specific kidney diseases of newborns, urinary tract infection, urinary tract anomalies, glomerular nephropathy, nocturnal enuresis in children, tubulopathies, rickets.  |
|                                     | Literature: mandatory and supplementary   |
| <b>VI.</b>                          | Title: Gastroenterology   |
|                                     | Short description: Natural and artificial infant nutrition, preschool nutrition and school child, parenteral nutrition, acute and chronic diseases of the digestive tract, liver disease in children.   |
|                                     | Literature: mandatory and supplementary   |
| <b>VII.</b>                         | Title: Child neurology  |
|                                     | Short description: Cerebral seizures and epilepsy, CNS anomalies, brain tumors, degenerative brain diseases, bleeding, ischemia and craniocerebral injuries, spinal cord diseases, inflammation of the central nervous system, diagnostic procedures, neurocutaneous syndromes. |
|                                     | Literature: mandatory and supplementary   |
| <b>VIII.</b>                        | Title: Genetics   |
|                                     | Short description: Hereditary and acquired in development, basics of human genetics, prenatal damage to the fetus, antenatal and postnatal diagnosis, chromosomal diseases, metabolic   |

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|            | diseases, selected case studies.  |
|            | Literature: mandatory and supplementary   |
| <b>IX.</b> | Title: Children's pulmonology   |
|            | Short description: Acute infections of the upper respiratory tract, pneumonia, tuberculosis, cystic fibrosis, bronchiolitis, obstructive bronchitis, allergic diseases of the respiratory tract, malformations, foreign body.                   |
|            | Literature: mandatory and supplementary   |
| <b>X.</b>  | Title: Pediatric cardiology   |
|            | Short description: Diagnostic methods, features of KVS in children, murmurs on heart, congenital heart defects, myocarditis, heart rhythm disorders, rheumatic fever, Kawasaki disease, collagenosis, arterial hypertension, circulatory shock. |
|            | Literature: mandatory and supplementary   |