**SYLLABUS**

**for the** **education cycle starting in the academic year 2021/2022**

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| **Name of a course/module** | Pediatric surgery | |
| **Faculty of** | **Medicine with Division of Dentistry and Division of Medical Education in English** | |
| **Name** **of a field of study** | Medicine | |
| **Level of education** | long-cycle programme studies | |
| **Form of study** | full-time studies | |
| **Language of instruction** | English | |
| **Type of course** | obligatory □x facultative □ | |
| **Year of study/Semester** | I □ II □ III□ IV □ V □x VI □ | 1 □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □ 9□ 10 □x 11 □ 12 □ |
| **Number of didactic hours of classes with division for forms of teaching** | a 1-week block of pediatric surgery labs (31hrs) and seven 2-hours lectures on pediatric surgery | |
| **Assumptions and aims of the course** | Students should acquire knowledge of:   * Specificity of pediatric and neonatal surgery. Congenital obstruction of alimentary tract * Pediatric urology. Congenital obstructive lesions of urinary tract. Hypospadiasis. Bladder extrophy and epispadiasis syndrome * Prenatal diagnosis/therapy and pediatric surgery. Congenital diaphragmatic hernia * Trauma injuries in children. Traumatic shock * Neural tube defects. Hydrocephalus * Acquired intestinal obstruction. Necrotizing enterocolitis. Short-bowel syndrome * Pediatric oncologic surgery * Central venous access * Abdominal pain, appendicitis, peritonitis * Leśniowski-Crohn’s disease. Ulcerative colitis * Burns in children – the strategy of treatment * Inguinal hernia * Undescended testis, torsion, varicocele. Phimosis * Hirschsprung’s disease. Constipation. Meconium ileus. Cystic fibrosis * Central nervous system injuries * Congenital abdominal wall defects * Neonatal cholestasis. Cholelithiasis * Gastro-esophageal reflux disease * The pre- and postoperative care in pediatric surgery * Osteomyelitis * Congenital lung anomalies. Pleural empyema * Urinary tract infection in children. Vesico-ureteral reflux. Urolithiasis * Gastrointestinal bleeding in children. Vascular malformations in children   Students should attain skills in:   * assisting for surgical procedures * Minor wounds – treatment, practical aspects * Burns – treatment – practical aspects * How to stitch up wounds * Pediatric trauma – practical aspects | |

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| **Symbol of** **education outcomes in accordance with the standards** | **Description of directional effects of education** | **Methods of verification of achieved learning outcomes** |
|  | **Knowledge (according to the detailed education outcomes)** |  |
| FW1 | Specificity of pediatric and neonatal surgery. Congenital obstruction of alimentary tract | labs and lectures, test |
| FW2 | Pediatric urology. Congenital obstructive lesions of urinary tract. Hypospadiasis. Bladder extrophy and epispadiasis syndrome |
| FW3 | Prenatal diagnosis/therapy and pediatric surgery. Congenital diaphragmatic hernia |
| FW4 | Acquired intestinal obstruction. Necrotizing enterocolitis. Short-bowel syndrome |
| FW5 | Pediatric oncologic surgery |
| FW6 | Burns in children – the strategy of treatment |
| FW7 | Inguinal hernia, Undescended testis, torsion, varicocele. Phimosis |
|  | **Skills (according to the detailed education outcomes)** |  |
| FU1 | assisting for surgical procedures | labs and lectures |
| FU2 | Minor wounds – treatment, practical aspects |
| FU3 | Burns – treatment – practical aspects |
| FU4 | How to stitch up wounds |
| FU5 | Pediatric trauma – practical aspects |
| FU6 | How to use antiseptics |
|  | **Social competence (according to the general education outcomes)** |  |
| K1 | He /She recognizes his/her own diagnostic and therapeutic limitations, educational needs, planning of educational activity | **Continuous assessment by the teacher** |
| K2 | He /She is able to work in a team of professionals, in a multicultural and multinational environment |
| K3 | He /She implements the principles of professional camaraderie and cooperation with representatives of other professionals in the range of health care |
| K4 | He /She observes doctor-patient privilege; and patient rights |

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| **ECTS points** |  | |
| **Student Workload** | | |
| **Form of Activity** | | **Number of hours to complete the activity** |
| **Activities that require the participation of (academic) teacher** | | |
| 1. Realization of the course: lecture | | 14 |
| 1. Realization on of the course: seminar | | - |
| 1. Realization of the course: classes | | 31 |
| 1. exam | |  |
| 1. electives | |  |
|  | | total of hours 45 |
| **Self-study:** | | |
| 1. Preparation for classes | |  |
| 1. Preparation for credits / tests | |  |
| 1. Preparation for the exam / final test | |  |
|  | | total of hours |

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| **Course contents** | |
| **Topics** | **Form** *(lectures, classes etc.…)* |
| Pediatric oncologic surgery | classes |
| Central venous access | classes |
| Abdominal pain, appendicitis, peritonitis | classes |
| Leśniowski-Crohn’s disease. Ulcerative colitis | classes |
| Burns in children – the strategy of treatment | classes |
| Inguinal hernia | classes |
| Undescended testis, torsion, varicocele. Phimosis | classes |
| Hirschsprung’s disease. Constipation. Meconium ileus. Cystic fibrosis | classes |
| Central nervous system injuries | classes |
| Congenital abdominal wall defects | classes |
| Neonatal cholestasis. Cholelithiasis | classes |
| Gastro-esophageal reflux disease | classes |
| The pre- and postoperative care in pediatric surgery | classes |
| Osteomyelitis | classes |
| Congenital lung anomalies. Pleural empyema | classes |
| Urinary tract infection in children. Vesico-ureteral reflux. Urolithiasis | classes |
| Gastrointestinal bleeding in children. Vascular malformations in children | classes |
| Specificity of pediatric and neonatal surgery. Congenital obstruction of alimentary tract | lectures |
| Pediatric urology. Congenital obstructive lesions of urinary tract. Hypospadiasis. Bladder extrophy and epispadiasis syndrome | lectures |
| Prenatal diagnosis/therapy and pediatric surgery. Congenital diaphragmatic hernia | lectures |
| Trauma injuries in children. Traumatic shock | lectures |
| Acquired intestinal obstruction. Necrotizing enterocolitis. Short-bowel syndrome | lectures |
| Neural tube defects. Hydrocephalus | lectures |

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| **A list of recommended and optional books** |
| * Obligatory: Becker JM, Stucchi AF: Essentials of Surgery. Saunders Elsevier, Philadelphia 2006, ISBF – 721681867 * Optional: Grosfeld JL, O’Neill JA, Fonkalsrud EW, Coran AG (eds): Pediatric Surgery. Vol. 1,2 , Mosby Elsevier, Philadelphia 2006, ISBN – 032302842-X |

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| **Conditions for receiving credit** |
| * all students are obliged to complete a 1-week block of pediatric surgery labs (31hrs) and seven 2-hours lectures on pediatric surgery * The Final Test Result (>60% positive answers – credit) |

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| Date of issue**:** |  | Course coordinator or the head of the department where the course is held | *Prof. Wojciech Dębek* |