

## DESCRIPTION OF THE COURSE OF STUDY

|                              |                       |   |
|------------------------------|-----------------------|---|
| <b>Course code</b>           | <b>12.6-3LEK-F-TD</b> |   |
| <b>Name of the course in</b> | Polish                | <b>Traumatologia dziecięca</b>            |
|                              | English               | <b>Traumatology in paediatric surgery</b> |

### 1. LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES

|  |  |
|--|--|
| <b>1.1. Field of study</b>                             | medicine   |
| <b>1.2. Mode of study</b>                              | full-time  |
| <b>1.3. Level of study</b>                             | uniform Master's study   |
| <b>1.4. Profile of study*</b>                          | practical  |
| <b>1.5. Specialization*</b>                            | lack   |
| <b>1.6. Unit running the course of study</b>           | Faculty of Medicine and Health Sciences, Department of Surgery, Urology and Paediatric Traumatology, UJK |
| <b>1.7. Person/s preparing the course description</b>  | dr n. med. Przemysław Wolak  |
| <b>1.8. Person responsible for the course of study</b> | dr n. med. Przemysław Wolak  |
| <b>1.9. Contact</b>                                    | przemyslaw.wolak@ujk.edu.pl  |

### 2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

|   |   |
|---|---|
| <b>2.1. Affiliation with the module</b>                       | facultative   |
| <b>2.2. Language of instruction</b>                           | English   |
| <b>2.3. Semesters in which the course of study is offered</b> |   |
| <b>2.4. Prerequisites*</b>                                    | Anatomy, physiology, surgery, paediatrics, paediatric surgery |

### 3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

|                                |   |  |
|--------------------------------|---|--|
| <b>3.1. Form of classes</b>    | <b>Lectures: 15 hours , Classes – 20 hours</b>  |  |
| <b>3.2. Place of classes</b>   | Lectures – in didactic rooms of the UJK<br>Classes - Department of Surgery, Urology and Paediatric Traumatology |  |
| <b>3.3. Form of assessment</b> | <b>Credit with grade</b>  |  |
| <b>3.4. Teaching methods</b>   | conversation lecture, discussion, case study in natural conditions  |  |
| <b>3.5. Bibliography</b>       | <b>Required reading</b>   | 1. Emergency Pediatric Surgery, An Issue of Surgical Clinics Todd A. Ponsky, Aaron P. Garrison, Elsevier 2017.<br>2. Emergent Management of Trauma, Third Edition, John Bailitz, Faran Bokhari, Thomas A. Scaletta, Jeffrey J. Schaidler, McGraw-Hill Medical, 2011. |
|                                | <b>Further reading</b>  | Rockwood and Wilkins' Fractures in Children, John M Flynn<br>David L. Skaggs, Peter M Waters, LWW 2014.  |

### 4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED TEACHING OUTCOMES

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|--|
| <p><b>4.1. Course objectives</b> (<i>including form of classes</i>)</p> <p>C1 acquisition of knowledge concerning specificity and distinctness of trauma-related disorders in children and adolescents</p> <p>C2 preparation for hospitalization in conditions of paediatric surgery ward, skills of diagnosing surgical disorders in children</p> <p>C3 shaping appropriate attitude of physician with respect to surgically ill children</p>   |
| <p><b>4.2. Detailed syllabus</b> (<i>including form of classes</i>)</p> <p><b>Lectures</b></p> <ol style="list-style-type: none"> <li>1. Distinctness of paediatric traumatology.</li> <li>2. Traumatology of osteoarticular system in children.</li> <li>3. Burns in children</li> <li>4. Cerebrocranial injuries in children.</li> <li>5. Injuries of the parenchymal organs in children.</li> <li>6. Battered child syndrome.</li> <li>7. Multiple organ injuries in children.</li> </ol> <p><b>Classes</b></p> <p>Presentation of cases, participation in diagnostics and treatment of children with injuries, including participation in surgical procedures.</p> |
| <p><b>4.3 Education outcomes in the discipline</b></p>   |

| Code                                  | A student, who passed the course  | Relation to teaching outcomes |
|---------------------------------------|---|-------------------------------|
| within the scope of <b>KNOWLEDGE:</b> |   |                               |
| W01                                   | knows the most common life-threatening conditions in children and the rules of conduct in these states;   | E.W6.                         |
| W02                                   | knows and understands the capabilities and limitations of laboratory tests in emergency situations  | E.W39.                        |
| W03                                   | knows and understand the causes, symptoms, principles of diagnosis and therapeutic management in relation to the most common diseases requiring surgical intervention, taking into account the individuality of childhood, in particular:<br>a) bone fractures and injuries of organs;  | F.W1.                         |
| W04                                   | knows selected issues of pediatric surgery including traumatology and otorhinolaryngology, defects and acquired diseases being an indication for surgical treatment in children;  | F.W2.                         |
| W05                                   | knows eligibility rules as well as basic and most common complications of surgery and other invasive diagnostic and treatment procedures;   | F.W3.                         |
| W06                                   | knows perioperative safety rules, preparing a patient for surgery, general and local anesthesia and controlled sedation;  | F.W4.                         |
| W07                                   | knows postoperative treatment and analgesic therapy as well as post-operative monitoring;   | F.W5.                         |
| W08                                   | knows the current guidelines for cardiopulmonary resuscitation of the newborns, children and adults   | F.W7.                         |
| W09                                   | knows the principles of the integrated state system of medical rescue;  | F.W8.                         |
| W10                                   | knows the issues concerning modern imaging tests, in particular:<br>a) basic radiological symptomatology of diseases,<br>b) instrumental methods and imaging techniques used to perform medical treatments,<br>c) the indications, contraindications and preparation of patients to particular types of imaging tests and contraindications the use of contrast agents;   | F.W10.                        |
| W11                                   | knows and understands the causes, symptoms, principles of diagnosis and therapeutic procedures for the most frequent diseases of the central nervous system in terms of:<br>a) a swelling of the brain and its consequences, with particular emphasis on the states of emergency,<br>b) other forms of intracranial narrowness of their consequences,<br>c) cranio-cerebral injuries<br>d) diseases of the spine and spinal cord; | F.W13.                        |
| W12                                   | knows the rules concerning the diagnosis of brain death.  | F.W15.                        |
| W13                                   | knows and understands the concept of death, violent and sudden death, as well as the difference between the concepts of injury or damage;   | G.W14.                        |
| within the scope of <b>ABILITIES:</b> |   |                               |
| U01                                   | makes conclusions as to the relationship between anatomical structures on the basis of intravital diagnostic tests, in particular in the field of radiology (plain images, tests using contrast agents, CT scans and magnetic resonance imaging);   | A.U4.                         |
| U02                                   | acts correctly in the case of injuries (uses dressing or immobilization, stitches the wound);   | E.U36.                        |
| U03                                   | assists during a typical surgery, prepares the surgical site and locally anesthetizes operated area;  | F.U1.                         |
| U04                                   | uses basic medical tools;   | F.U2.                         |
| U05                                   | complies with the aseptic and antiseptic rules;   | F.U3.                         |
| U06                                   | manages simple wounds and changes sterile surgical dressing;  | F.U4.                         |
| U07                                   | assesses radiological test result in terms of the most common types of fractures, especially fractures of long bones;   | F.U7.                         |
| U08                                   | performs temporary immobilization of a limb, selects the type of immobilization necessary for use in typical clinical situations and checks blood supply to the limbs after using the cast;   | F.U8.                         |
| U09                                   | manages external bleeding;  | F.U9.                         |
| U10                                   | during child examination recognizes symptoms indicating the possibility of using violence against the child;  | G.U5.                         |

#### 4.4. Methods of assessment of the intended teaching outcomes

| Teaching outcomes<br>(code) | Method of assessment (+/-) |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
|-----------------------------|----------------------------|---|-----|-----------------|---|-----|-----------------|---|-----|------------------|---|-----|-----------------|---|-----|-----------------|---|-----|---------|---|-----|
|                             | Exam oral/written*         |   |     | Test*           |   |     | Project*        |   |     | Effort in class* |   |     | Self-study*     |   |     | Group work*     |   |     | Others* |   |     |
|                             | Form of classes            |   |     | Form of classes |   |     | Form of classes |   |     | Form of classes  |   |     | Form of classes |   |     | Form of classes |   |     |         |   |     |
|                             | L                          | C | ... | L               | C | ... | L               | C | ... | L                | C | ... | L               | C | ... | L               | C | ... | L       | C | ... |
| W01                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| W02                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| W03                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| W04                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| W05                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| W06                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| W07                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| W08                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| W09                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| W10                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| W11                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| W12                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| W13                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| U01                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| U02                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| U03                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| U04                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| U05                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| U06                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| U07                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| U08                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| U09                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |
| U10                         |                            |   |     |                 |   |     |                 |   |     |                  |   |     |                 |   |     |                 |   |     |         |   |     |

\*delete as appropriate

#### 4.5. Criteria of assessment of the intended teaching outcomes

| Form of classes | Grade | Criterion of assessment |
|-----------------|-------|-------------------------|
| lecture (L)     | 3     | 61%-68%                 |
|                 | 3,5   | 69%-76%                 |
|                 | 4     | 77%-84%                 |
|                 | 4,5   | 85%-92%                 |
|                 | 5     | 93%-100%                |
| classes (C)*    | 3     | 61%-68%                 |
|                 | 3,5   | 69%-76%                 |
|                 | 4     | 77%-84%                 |
|                 | 4,5   | 85%-92%                 |
|                 | 5     | 93%-100%                |

- Thresholds are valid from 2018/ 2019 academic year

## 5. BALANCE OF ECTS CREDITS – STUDENT’S WORK INPUT

| Category  | Student's workload |
|---|--------------------|
|   | Full-time studies  |
| <b>NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/</b> | <b>35</b>          |
| <i>Participation in lectures*</i>   | <b>15</b>          |
| <i>Participation in classes, seminars, laboratories*</i>                            | <b>20</b>          |
| <i>Preparation in the exam/ final test*</i>   |                    |
| <i>Others*</i>  |                    |
| <b>INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/</b>                           | <b>15</b>          |
| <i>Preparation for the lecture*</i>   |                    |
| <i>Preparation for the classes, seminars, laboratories*</i>                         | <b>10</b>          |
| <i>Preparation for the exam/test*</i>   | <b>5</b>           |
| <i>Gathering materials for the project/Internet query*</i>                          |                    |
| <i>Preparation of multimedia presentation</i>                                       |                    |
| <i>Others*</i>  |                    |
| <b>TOTAL NUMBER OF HOURS</b>  | <b>50</b>          |
| ECTS credits for the course of study  | <b>2</b>           |

**Accepted for execution** (date and signatures of the teachers running the course in the given academic year)

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