**SYLLABUS**

Academic year 2018/2019

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| **Name of a course/module** | Orthopedics and Traumatology |
| **Name of the Department/-s where the course is implemented** | Department of Orthopedics and Traumatology Medical University of Bialystok |
| **e-mail of Department** |  |
| **Faculty** | Faculty of Medicine with the Division of Dentistry and Division of Medical Education In English |
| **Name of a field of study** | Orthopedics and Traumatology |
| **Level of education** | First degree studies, Uniform master’s degree studies. |
| **Form of study** | full time **x** part time □ |
| **Language of instruction** | Polish □ English **x** |
| **Type of course** | obligatory **x**  facultative □ |
| **Year of study / Semester** | I □ II □ III □ IV □ V □ VI □ | 1 □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □ 9 □10 □ 11 □ 12 □ |
| **Introductory courses with preliminary requirements** | **Implementation of the learning outcomes in terms of knowledge, skill sets and competencies of the previous years of study in the field of Orthopedics and Traumatology** |
| **Number of didactic hours with specification of forms of conducting classes** | Lectures 65; Seminars; Classes  |
| **Assumptions and aims** **of the course** | 1. he course program offers basic knowledge of general orthopaedics, traumatic and non-

traumatic disorders |
| **Didactic methods** | - providing knowledge in a form of a lecture- consultation (both regular and organized in individual cases)- discussion- presentation- case description- self study- study of the literature- other practical classes- forms of distance learning (if applicable)- other methods/forms (e.g. e-learning) |
| **Full name of the person conducting the course** | Dr hab. Marek Bielecki  |
| **Full name of the person responsible for teaching** | Coordination: Krzysztof Koryszewski M.D. |

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| **Symbol and number of learning outcomes according to the teaching standards and other learning outcomes** | **Description of directional learning outcomes** | **Form of classes** | **Verification methods for achieving intended learning outcomes**  |
| **Knowledge** |
| E.W1. | Student has knowledge and understanding ofthe causes, symptoms, basis for diagnosis andtreatment of the most common orthopaedicconditions | Lect, sem, class | *Summarizing methods e.g.,**- written exam* *Forming methods, e.g.,**- observation of the student's work**- pretest**- evaluation of the activity in the classroom**- completion of each activity**- assessment of preparation for classes**- discussion in class**- partial tests**- preliminary tests**- case description* |
| E.W2. | Student has knowledge and understanding oforthopedics, including trauma, acquired conditions which require surgical treatment | Lect, sem, class |
| E.W3. | Student knows the basics for qualifying andperforming of the most common orthopedicprocedures as well as the most complications | Lect, sem, class |
| **Skills** |
| E.U1. | Student is able to assess an x-ray with regards tothe most typical fractures, especially long bones | classes | *Summarizing methods e.g,.**- practical examination* *(with simulator, phantom)**- realization of a specific task**- project, presentation**Forming methods, e.g.,**- observation of the student's work**- pretest**- evaluation of the activity in the classroom**- completion of each activity**- assessment of preparation* *for classes**- discussion in class**- partial tests**- preliminary tests**- case description* |
| E.U2. | Student is able to carry out temporary jointimmobilization, choose the type ofimmobilization used in typical clinical situationsand assess circulation following immobilization | classes |
| E.U3. | Student is able to carry out proceduresfollowing injuries (dressing or casting, cleaningand suturing a wound) | classes |
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| **Social competence** |
| K1 | establish the doctor-patient relationship based on deep and profound respect | classes | *Summarizing methods e.g.,**Continuous assessment by teachers (observation)**Forming methods, e.g.,**- observation of the student's work**- discussion in class**- opinions of patients, colleagues* |
| K2 | take into consideration welfare of the patient and put it in the first place | classes |
| K3 | Keep medical secret and respect all patient’s rights | classes |
| K4 | be aware of his/her own limitations and need to improve their skills continually  | classes |
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| **ECTS points** | 4+4+4 |
| **Student Workload** |
| **Form of activity** | **Number of hours to carry out activity** |
| **Activities requiring participation of a teacher:** |
| 1. Implementation of the course: lectures (according to the curriculum)
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| 1. Implementation of the course: classes (according to the curriculum)
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| 1. Implementation of the course: seminars (according to the curriculum)
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| 1. Implementation of the course: electives
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| 1. Participation in consultation
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|  | Total hours: |
| **Student self-study:***1 punkt ECTS oznacza 25-30 godzin pracy studenta w różnych formach, takich jak np.:* |
| 1. Preparation for the theoretical and practical classes (realization of projects, documentation, case description etc.)
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| 1. Preparation for tests/credits
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| 1. Preparation for an exam/final test-credit
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|  | Total hours: |

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| **Course contents:**  |
| **Learning outcomes** **(symbol and number)** | **Topics** |
| E.W1/E.W3 | **LECTURES** |
| E.W1/E.W3 | Microsurgical operations in traumatology  |
| . E.W1/E.W3 | Injuries of the nerves and their treatment |
| E.W1/E.W3 | Orthopaedic oncology-general principles. Benign tumors. Primary malignant tumors-part 1.  |
| E.W1/E.W3 | Recent and inveterate injuries of the flexors of the hand and their treatment  |
| E.W1/E.W3 | Orthopaedic oncology-primary malignant tumors-part 2. Metastatic disease, myeloma multiplex |
| E.W1/E.W3 | Injuries of the extensors of the hand, fractures of the distal radius, scaphoid fracture |
| E.W1/E.W3 | Fractures of the hand, Sudeck’s syndrome |
| E.W1/E.W3 | Diseases of the hand and their treatment: Carpal tunnel syndrome, trigger finger, ganglion  |
| E.W1/E.W3 | Diseases of the hand and their treatment: Dupuytren’s contracture, tennis elbow |
| E.W1/E.W3 | Hallux valgus, orthopaedic and surgical treatment of the pressure ulcers  |
|  | **SEMINARS** |
| E.W1/E.W3 | General principles of treatments in injuries of locomotoric system – contusion, , dislocation, fracture |
| E.W1/E.W3 | Injuries of shoulder – fractures, dislocation, contorsion, X-ray negative (diagnosis, primary intervention, treatment) |
| E.W1/E.W3 | Injuries of elbow and humerus - diagnosis, primary intervention, treatment, complication. |
| E.W1/E.W3 | Injuries of forearm – types of fractures. Multitissue injuries |
| E.W1/E.W3 | Multitissue injuries of hand – diagnosis, possibilities and outcomes of treatment |
| E.W1/E.W3 | Fractures of pelvis. Traumas and dislocation of hip - diagnosis, primary intervention, treatment, complication |
| E.W1/E.W3 | Traumatic injuries of spine (fractures, dislocations). First aid, primary intervention. Limits and possibilities od surgical treatment spinal cord lesions |
| E.W1/E.W3 | Injuries of knee (Intraarticular knee fractures, X-ray negative injuries, knee instabilities) - diagnosis, primary intervention, treatment, complication. |
| E.W1/E.W3 | Fractures of tibial shaft. Injuries of ankle and foot. |
| E.W1/E.W3 | Soft tissue injuries (muscles, tendons). Enthesopathies. Compartment syndrome |
|  | **CLASSES** |
| E.U1/E.U3. | General principles of treatments in injuries of locomotoric system – contusion, , dislocation, fracture |
| E.U1/E.U3, K1/K4 | Injuries of shoulder – fractures, dislocation, contorsion, X-ray negative (diagnosis, primary intervention, treatment) |
| E.U1/E.U3, K1/K4. | Injuries of elbow and humerus - diagnosis, primary intervention, treatment, complication. |
| E.U1/E.U3, K1/K4 | Injuries of forearm – types of fractures. Multitissue injuries |
| E.U1/E.U3, K1/K4 | Multitissue injuries of hand – diagnosis, possibilities and outcomes of treatment |
| E.U1/E.U3, K1/K4 | Fractures of pelvis. Traumas and dislocation of hip - diagnosis, primary intervention, treatment, complication |
| E.U1/E.U3, K1/K4 | Traumatic injuries of spine (fractures, dislocations). First aid, primary intervention. Limits and possibilities od surgical treatment spinal cord lesions |
| E.U1/E.U3, K1/K4 | Injuries of knee (Intraarticular knee fractures, X-ray negative injuries, knee instabilities) - diagnosis, primary intervention, treatment, complication. |
| E.U1/E.U3, K1/K4 | Fractures of tibial shaft. Injuries of ankle and foot. |
| E.U1/E.U3, K1/K4 | Soft tissue injuries (muscles, tendons). Enthesopathies. Compartment syndrome |

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| **Obligatory textbook:** |
| Current Diagnosis & Treatment in Orthopedics, Harry B. Skinner, 2006 |
| **Optional textbook:** |
| Textbook of Orthopedics 5th Revised edition by John Ebnezar, 2006Blueprints Orthopedics by Grant Cooper, 2005 |

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| **Criteria for assessing the achieved learning outcomes and the form and conditions for receiving credit:**  |
| Requirements to achieve a passing grade in practical classes.Attendance on classes, seminars, and lectures. Satisfactory result from the written exam. |

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*(date and signature of the person preparing the syllabus)*

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 *(date and signature of the Head of the and (course coordinator)*

 *Department where the course is held)*