**SYLLABUS**

Academic year 2018/2019

|  |  |  |
| --- | --- | --- |
| **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. | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 of  the causes, symptoms, basis for diagnosis and  treatment of the most common orthopaedic  conditions | | 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 of  orthopedics, including trauma, acquired conditions which require surgical treatment | | Lect, sem, class |
| E.W3. | Student knows the basics for qualifying and  performing of the most common orthopedic  procedures as well as the most complications | | Lect, sem, class |
| **Skills** | | | | |
| E.U1. | Student is able to assess an x-ray with regards to  the 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 joint  immobilization, choose the type of  immobilization used in typical clinical situations  and assess circulation following immobilization | | classes |
| E.U3. | Student is able to carry out procedures  following injuries (dressing or casting, cleaning  and suturing a wound) | | classes |
|  |  | |  |
| **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 |
|  |  | |  |

|  |  |  |
| --- | --- | --- |
| **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) | |  |
| 1. Implementation of the course: classes (according to the curriculum) | |  |
| 1. Implementation of the course: seminars (according to the curriculum) | |  |
| 1. Implementation of the course: electives | |  |
| 1. Participation in consultation | |  |
|  | | 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.) | |  |
| 1. Preparation for tests/credits | |  |
| 1. Preparation for an exam/final test-credit | |  |
|  | | Total hours: |

|  |  |
| --- | --- |
| **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 |

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

|  |
| --- |
| **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. |

……………………………………………………..

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

……………………………………………… ………………………………………………

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

*Department where the course is held)*