Appendix number 1.5 to The Rector UR Resolution No. 12/2019

SYLLABUS

**concerning the cycle of education 2024-2030**

(date range)

* 1. BASIC INFORMATION CONCERNING THIS SUBJECT / MODULE

|  |  |
| --- | --- |
| Subject / Module | Orthopedics and traumatology of the musculoskeletal system |
| Course code / module \* | OT/F |
| Faculty of (name of the leading direction) | Medical College of Rzeszów University |
| Department Name | Medical College of Rzeszów University |
| Field of study | medical direction |
| Level of education | uniform master's studies |
| Profile | practical |
| Form of study | stationary / extramural |
| Year and semester | year V, semester IX |
| Type of course | obligatory |
| Coordinator | Prof. S Snela |
| First and Last Name of the Teacher | lek. med. Sebastian Jaszczuk |

\* - According to the resolutions of the Faculty of Medicine

1.2. Forms of classes, number of hours and ECTS

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lecture | Exercise | Conversation | Laboratory | Seminar | ZP | Practical | Self-learning | **Number of points ECTS** |
| 15 | 30 | - | - | - | - | - | 30 | **3** |

1.3. The form of class activities

☒classes are in the traditional form

☐classes are implemented using methods and techniques of distance learning

1.4. Examination Forms / module (exam, credit with grade or credit without grade)

2. REQUIREMENTS

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| Knowledge of the anatomy of the musculoskeletal system |

**3. OBJECTIVES, OUTCOMES, AND PROGRAM CONTENT USED IN TEACHING METHODS**

* 1. Objectives of this course/module

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| --- | --- |
| C1 | Acquisition of knowledge concerning individual disease entities in the field of orthopedics and traumatology of the motor system. |
| C2 | Mastering the basics of orthopedic examination and symptomatology of musculoskeletal diseases and the basics of diagnostic and treatment of orthopedic and traumatic patients. |

3.2 OUTCOMES FOR THE COURSE / MODULE (TO BE COMPLETED BY THE COORDINATOR)

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| --- | --- | --- |
| EK (the effect of education) | The content of the learning effect defined for the subject (module) | Reference to directional effects (KEK) |
| EK­\_01 | knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in relation to the most common diseases requiring surgical intervention, taking into account the distinctiveness of childhood, including in particular:  a) acute and chronic diseases of the abdominal cavity,  b) chest diseases,  c) diseases of limbs and head,  d) bone fractures and organ injuries; | F.W1. |
| EK\_02 | knows the rules of qualifications and performance as well as the most common complications of basic surgical procedures and in-situ diagnostic and therapeutic procedures; | F.W3. |
| EK\_03 | knows the principles of perioperative safety, patient preparation for surgery, general and local anesthesia and controlled sedation; | F.W4. |
| EK\_04 | knows post-operative treatment with analgesic therapy and postoperative monitoring; | F.W5. |
| EK\_05 | knows the problems of contemporary image research, in particular:  a) radiological symptomatology of basic diseases,  b) instrumental methods and imaging techniques used for therapeutic procedures,  c) indications, contraindications and preparation of patients for particular types of imaging examinations and contraindications to the use of contrast agents; | F.W10. |
| EK\_06 | assists with a typical surgery, prepares an operating field and anesthetizes the localized area; | F.U1. |
| EK\_07 | uses basic surgical instruments; | F.U2. |
| EK\_08 | applies to the principles of aseptic and antisepsis; | F.U3. |
| EK\_09 | supplies a simple wound, assumes and changes a sterile surgical dressing; | F.U4. |
| EK\_10 | involves peripheral puncture; | F.U5. |
| EK\_11 | evaluates the result of a radiological examination of the most common types of fractures, especially long bone fractures; | F.U7. |
| EK\_12 | performs temporary immobilization of the limb, selects the type of immobilization necessary for use in typical clinical situations and controls the correctness of blood supply to the limb after the insertion of the immobilizing dressing; | F.U8. |
| EK\_13 | supplies external bleeding; | F.U9. |
| EK\_14 | performs basic resuscitation procedures with the use of an automatic external defibrillator and other rescue operations and provides first aid; | F.U10. |
| EK\_15 | works in accordance with the current algorithm of advanced resuscitation activities; | F.U11. |
| EK\_16 | it works properly in the case of injuries (assumes a dressing or immobilization, supplies and sutures a wound); | E.U36. |
| EK\_17 | he is guided by the good of the patient, placing them in the first place | K.02. |

**3.3 CONTENT CURRICULUM (filled by the coordinator)**

1. **Lectures**

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| **Course contents** |
| Organizational and introductory classes. Familiarizing students with issues, pass criteria. |
| Pathophysiology of the healing of motor organ damage (tendon, bone, nervous trunk and vessels) in the aspect of immobilization, time and conditions for regeneration (nerves), the possibility of rehabilitation and rehabilitation. Causes of failures and complications. |
| Ankle instability - clinical picture, diagnostics, treatment |
| Achilles tendon dysfunction dysfunction - clinical picture, diagnostics, treatment |
| Damage to the meniscus of the knee - clinical picture, diagnostics, treatment |
| Damage to the knee cartilage - clinical picture, diagnostics, treatment |
| Patellar fractures - clinical picture, diagnostics, treatment |
| Habitatic instability of the patella |

**B**. **Seminars**

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| **Course contents** |
| Organizational and introductory classes. Familiarizing students with issues, pass criteria. |
| Orthopedic nomenclature. Motion organ examination. Primary supply of damage to the musculoskeletal system. |
| Principles of supplying musculoskeletal injuries - contusion, sprain, dislocation, fracture including open fracture |
| Congenital defects of the musculoskeletal system - dysplasia and dislocation of the joint, hip, torticollis, foot defects. |
| Diseases of the adolescent period - sterile osteonecrosis of the femoral head, juvenile exfoliation of the femoral head, Scheuermann's disease. |
| Scoliosis - clinical examination, radiological evaluation, treatment methods. |
| Scoliosis - planning exercises for curvatures of different location, radiological assessment. |
| Spina bifida, radiological assessment. |
| Pain syndromes of the cervical spine - causes, diagnostics, treatment. |
| Pain syndromes of the lumbosacral spine - causes, diagnostics, treatment. |
| Osteoarthritis - causes, clinical symptoms, treatment. |
| Osteoarthritis of the knee - causes, clinical symptoms, treatment. |
| Damage to the anterior cruciate ligament - etiopathogenesis, reconstruction methods, preoperative and postoperative procedures, physiotherapy. |
| Damage to the collateral ligaments of the knee joint - etiopathogenesis, pre-operative and postoperative procedures, physiotherapy. |
| Amputations of limbs - principles, procedures before and after amputation in the upper and lower limb. |

**3.4 TEACHING METHODS**

Lecture: multimedia presentation.

Exercises: Case analysis

Student's own work: work with a book

4 METHODS AND EVALUATION CRITERIA

4.1 Methods of verification of learning outcomes

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| --- | --- | --- |
| Symbol of effect | Methods of assessment of learning outcomes (Eg.: tests, oral exams, written exams, project reports, observations during classes) | Form of classes |
| EK\_01  EK\_02  EK\_03  EK\_04  EK\_05 | Written or oral test | Lecture |
| EK\_06  EK\_07  EK\_08  EK\_09  EK\_10  EK\_11  EK\_12  Ek\_ 13  EK\_14  EK\_15  EK\_16  EK\_17 | Practical pass | Exercises |

4.2 Conditions for completing the course (evaluation criteria)

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| --- |
| **Exercises, seminars:**  1. full participation and activity in the exercises  2. written partial credits  Range of ratings: 2.0 - 5.0  **Lectures**:  1. test pass and open questions:  A: Questions in the field of messages to remember;  B: Questions in the field of speech to understand;  C: Solving a typical written task;  D: Solving an atypical writing task;  - for insufficient solution of tasks only from areas A and B = grade 2.0  - for solving tasks only from areas A and B, the possibility of obtaining max. rating 3.0  - for solving tasks from the area A + B + C, the possibility of obtaining max. evaluation 4.0  - for the solution of tasks in the area A + B + C + D, the possibility of obtaining a rating of 5.0  **Knowledge assessment:**  5.0 - has knowledge of the education content at the level of 93% -100%  4.5 - has knowledge of the content of education at the level of 85% -92%  4.0 - has knowledge of the content of education at the level of 77% -84%  3.5 - has knowledge of the content of education at the level of 69% -76%  3.0 - has knowledge of the content of education at the level of 60% -68%  2.0 - has knowledge of the educational content below 60%  **Skill assessment**  5.0 - the student actively participates in the classes, is well prepared, knows the rules of qualifications and performance very well and the most common complications of the basic surgical procedures and the in-view diagnostic and therapeutic procedures, correctly interprets the radiological examination  4.5 - the student actively participates in classes, knows the rules of qualifications and performance as well as the most common complications of basic surgical procedures and in-situ diagnostic and therapeutic procedures, correctly interprets the radiological examination  4.0 - the student actively participates in classes, is improved, knows the rules of qualifications and performance as well as the most common complications of basic surgical procedures and in-situ diagnostic and therapeutic procedures, correctly interprets the radiological examination  3.5 - the student participates in classes, his scope of preparation does not allow for a comprehensive presentation of the discussed problem, he knows the rules of qualification and performance and the most common complications of basic surgical procedures and in-situ diagnostic and therapeutic procedures, he interprets the radiological examination  3.0 - the student participates in classes, knows the rules of qualification and exercise and the most frequent complications of basic surgical procedures and in-situ diagnostic and therapeutic procedures, he interprets the radiological examination, often making mistakes, is often corrected  2.0 - the student passively participates in the classes, the statements are incorrect in substance, do not know the rules of qualifications and performance as well as the most frequent complications of the basic surgical procedures and the in-use diagnostic and therapeutic procedures, incorrectly interprets the radiological examination |

5. Total student workload required to achieve the desired result in hours and ECTS credits

|  |  |
| --- | --- |
| Activity | Hours / student work |
| Hours of classes according to plan with the teacher | 45 |
| Preparation for classes | 30 |
| Participation in the consultations | 2 |
| The time to write a paper / essay | - |
| Preparation for tests | - |
| Participation in colloquia | **-** |
| Other (e-learning) | **-** |
| SUM OF HOURS | **77** |
| TOTAL NUMBER OF ECTS | **3** |

6. TRAINING PRACTICES IN THE SUBJECT / MODUL

|  |  |
| --- | --- |
| Number of hours | - |
| Rules and forms of apprenticeship | - |

1. LITERATURE

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| --- |
| **READING:**  1 Ortopedia i traumatologia; Gaździk T.  2. Bolesny krzyż; Dziak A.  3. Bóle szyi, głowy i barków; Dziak A.  4. Ortopedia i rehabilitacja; Dega W.  5. Testy kliniczne w badaniu kości, stawów i mięśni, Buckup K.  6. [Artroskopia stawu biodrowego](http://medbook.com.pl/ksiazka/pokaz/id/11592/tytul/artroskopia-stawu-biodrowego-sekiya-safran-ranawat-leunig-gazdzik-elsevier-urban-partner), Książka z płytą DVD, Jon K. Sekiya, Marc R. Safran, Anil S. Ranawat, Michael Leunig, red. wyd. pol. Tadeusz Gaździk Elsevier Urban & Partner, 2013, 7. [100 rozpoznań - urazy (z serii Pocket Radiologist Top 100 diagnoses)](http://medbook.com.pl/ksiazka/pokaz/id/6737/tytul/100-rozpoznan-urazy-z-serii-pocket-radiologist-top-100-diagnoses-novelline-rhea-ptak-sadri-tafazoli-small-medipage)Robert A. Novelline, James T. Rhea, Thomas Ptak, Faranak Sadri-Tafazoli, Andrew B. Small Medipage, 2007 |
| Additional literature: 8. [ABC postępowania w urazach](http://medbook.com.pl/ksiazka/pokaz/id/9251/tytul/abc-postepowania-w-urazach-driscoll-skinner-earlam-jakubaszko-gornicki-wydawnictwo-medyczne) Peter Driscoll, David Skinner, Richard Earlam, red. wyd. pol. Juliusz Jakubaszko  Górnicki Wydawnictwo Medyczne, 20109. [Alloplastyka stawu biodrowego](http://medbook.com.pl/ksiazka/pokaz/id/8416/tytul/alloplastyka-stawu-biodrowego-dorr-marczynski-elsevier-urban-&-partner) Lawrence D. Dorr, red. wyd. pol. Wojciech Marczyński Elsevier Urban & Partner, 200910. [Artroskopia](http://medbook.com.pl/ksiazka/pokaz/id/10866/tytul/artroskopia-miller-chhabra-safran-gazdzik-elsevier-urban-&-partner) Mark D. Miller, A. Bobby Chhabra, Marc R. Safran, red. wyd. pol. Tadeusz Gaździk Elsevier Urban & Partner, 201211. [Artroskopia stawu biodrowego (e-book)](http://medbook.com.pl/ksiazka/pokaz/id/54175/tytul/artroskopia-stawu-biodrowego-safran-ranawat-sekiya-leunig-elsevier-urban-partner)M.R. Safran, A.S. Ranawat, J.K. Sekiya, M. Leunig  Elsevier Urban & Partner, 201312. [Atlas anatomii ortopedycznej Nettera](http://medbook.com.pl/ksiazka/pokaz/id/6285/tytul/atlas-anatomii-ortopedycznej-nettera-thompson-netter-dziak-elsevier-urban-&-partner) Jon C. Thompson, Frank H. Netter, red. wyd. Artur Dziak Elsevier Urban & Partner, 2007,13. [Atlas zabiegów stawowych w osteopatii kończyn](http://medbook.com.pl/ksiazka/pokaz/id/3440/tytul/atlas-zabiegow-stawowych-w-osteopatii-konczyn-tixa-ebenegger-wydawnictwo-lekarskie-pzwl) Serge Tixa, Bernard Ebenegger,Wydawnictwo Lekarskie PZWL, 2004 |

Acceptance Unit Manager or authorized person