

SYLLABUS
concerning the cycle of education 2019-2025
(date range)

1.1. 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	

* - 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

Knowledge of the anatomy of the musculoskeletal system

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

3.1. Objectives of this course/module

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)

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)

A. Lectures

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

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

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	Written or oral test	Lecture

EK_03		
EK_04		
EK_05		
EK_06	Practical pass	Exercises
EK_07		
EK_08		
EK_09		
EK_10		
EK_11		
EK_12		
EK_13		
EK_14		
EK_15		
EK_16		
EK_17		

4.2 Conditions for completing the course (evaluation criteria)

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	-
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Rules and forms of apprenticeship	-
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6. LITERATURE

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, 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)Robert A. Novelline, James T. Rhea, Thomas Ptak, Faranak Sadri-Tafazoli, Andrew B. Small Medipage, 2007

Additional literature:

8. ABC postępowania w urazach Peter Driscoll, David Skinner, Richard Earlam, red. wyd. pol. Juliusz Jakubaszko Górnicki Wydawnictwo Medyczne, 2010
9. Alloplastyka stawu biodrowego Lawrence D. Dorr, red. wyd. pol. Wojciech Marczyński Elsevier Urban & Partner, 2009
10. Artroskopia Mark D. Miller, A. Bobby Chhabra, Marc R. Safran, red. wyd. pol. Tadeusz Gaździk Elsevier Urban & Partner, 2012
11. Artroskopia stawu biodrowego (e-book)M.R. Safran, A.S. Ranawat, J.K. Sekiya, M. Leunig Elsevier Urban & Partner, 2013
12. Atlas anatomii ortopedycznej Nettera Jon C. Thompson, Frank H. Netter, red. wyd. Artur Dziak Elsevier Urban & Partner, 2007,
13. Atlas zabiegów stawowych w osteopatii kończyn Serge Tixa, Bernard Ebenegger, Wydawnictwo Lekarskie PZWL, 2004

Acceptance Unit Manager or authorized person