

DISCIPLINE SHEET**ACADEMIC YEAR****2022- 2023****1. DATA ABOUT THE STUDY PROGRAM**

1.1 Institution of higher education	UNIVERSITY OF MEDICINE AND PHARMACY OF CRAIOVA
1.2 Faculty	MEDICINE
1.3 Department	6
1.4 Study Domain	HEALTH
1.5 Study cycle	LICENCE
1.6 Study program/ Qualification	MEDICINE

2. DATA ABOUT THE DISCIPLINE

2.1 DISCIPLINE NAME	ORTHOPEDECS AND TRAUMATOLOGY				
2.2. Discipline code	MED4207				
2.3 The holder of course activities	Prof. Dan Anusca, Prof. Dan Grecu				
2.4 The holder of seminar activities	Prof. Dan Anusca, Prof. Dan Grecu, Lecturer Dragos Niculescu, Assistant professor Daniel Răzvan Diță, Assistant professor Alexandru Florian Grecu				
2.5.Academic degree	Professor, Associate professor, Lecturer, Assistant professor				
2.6. Employment (base norm/associate)	Base norm				
2.7. Year of study	IV	2.8. Semester	II	2.9. Course type (content) 2.10. Regime of discipline (compulsoriness)	CSD

3. THE ESTIMATED TOTAL TIME (teaching hours per semester)

3.1 Number of hours per week	3.4	3.2 From which - course	1	3.3 Clinical stage	2.4
3.4 Total hours in curriculum	47.6	3.5 From which - course	14	3.6 Clinical stage	33.6
Time found distribution (hours)					
Study from manual, course support, bibliography, and notes					10
Additional documentation in the library, specialized electronic platforms and, on the field					10
Training seminars / labs, homework, reports, portfolios, and essays					2
Tutoring					2
Examinations					2
Other activities, counselling, student scientific programs					1.4
3.7 Total hours of individual study	27.4				
3.9 Total hours per semester	75				
3.10 Number of credits	3				

4. PREREQUISITES (where appropriate)

4.1 curriculum	The students must possess advanced knowledge of anatomy and physiology
4.2 competency	

5. CONDITIONS (where appropriate)

5.1. of curse deployment	Course location must be outfitted with projection equipment / online environment available
5.2. of seminary/ lab deployment	Online/ physical attendance in the Clinical County Hospital. Medical uniform is mandatory for on-site attendance.

6. SPECIFIC COMPETENCES ACCRUED

PROFESSIONAL COMPETENCES	C1. Identification the disease status and establishing the correct diagnosis.
	C2. Preparing and applying an adequate treatment plan for the identified condition(s).
	C3. Assessing correctly the risk of disease or the context of the occurrence of an individual/collective disease, followed by the selection and implementation of adequate prophylactic measures
	C4. To address health issues/illness from the perspective of community specifics, directly related to the social, economic and/or cultural specific to community.
	C5. To initiate and conduct a scientific research activity and / or a training activity inside the field of competence

TRANSVERSAL COMPETENCES	<p>CT1. Autonomy and responsibility</p> <ul style="list-style-type: none"> the acquisition of moral reference points, the formation of professional and civic attitudes, that will allow to the students to be fair, honest, helpful, understanding, unconflictuals, to cooperate and to be comprehensive in the face of suffering, to be available to help people, and to be interested in community development; to know, to respect and to contribute to the development of moral values and professional ethics; to learn how to recognize the problems when they arise, and provide solutions for solving them. <p>CT2. Social interaction</p> <ul style="list-style-type: none"> to recognize and to have respect for diversity and multiculturalism; to have or to learn how to develop teamwork skills; to communicate orally and in writing the manner of work requirements, the obtained results, to consult with the team; to engage themselves in voluntary activities, to know the essential problems of the community. <p>CT3. Personal and professional development</p> <ul style="list-style-type: none"> to have opening to lifelong learning, to be aware for self-study as a basis of personal autonomy and professional development; to derive the optimum and creative potential in their own collective activities; to know how to use information and communication technologies.
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7. DISCIPLINE OBJECTIVES (based on the grid of specific competences acquired)

7.1 The general objective of the discipline	<ol style="list-style-type: none"> to acquire fundamental knowledge about the etiopathogenesis, physiopathology, pathological anatomy, clinical signs, paraclinical investigations, the diagnosis and treatment of trauma and orthopedic diseases to be capable to decide the treatment of orthopedic emergencies, of fracture, dislocation or sprain.
7.2 The specific objectives of the discipline	<ol style="list-style-type: none"> to know and to perform a clinical diagnosis of a fracture, dislocation or sprain to know and apply the treatment of osteoarticular trauma to know the preoperative planning of the patients that require a surgical intervention to follow the postoperative evolution of the patients and to apply the treatment of postoperative complications to know how to make a splint or cast immobilisation to know the DVT prophylaxis in immobilised patients

8. CONTENTS

8.1 Course (content units)	Hours
1. General knowledge about osteoarticular trauma. General knowledge about fractures (clinical diagnosis, paraclinical diagnosis, treatment and principles of treatment, local and general complications)	2
2. Fractures of the inferior limb. Femur, knee, calf, ankle, foot fractures (classification, diagnosis, treatment, complications).	2
3. Fractures of the superior limb. Clavicular, scapular, humerus, elbow, forearm, fist, hand fractures (classification, diagnosis, treatment, complications).	2
4. Sprains and dislocations. Sprains: definition, classification, physiopathology, diagnosis, treatment. Ankle sprain. Knee sprain. Meniscal lesions. Anterior and posterior cruciate ligaments tear. Dislocation: (classification, diagnosis, treatment, complications). Acromio-clavicular, shoulder, elbow, hip, knee, patellar dislocations.	2
5. Pelvic fractures and spine trauma. Fractures of the pelvic ring: classification, diagnosis, treatment, complications. Spine fractures: classification, diagnosis, treatment, complications. Lumbar discopathy: classification, clinical diagnosis and treatment. Osteoarthritis: definition, clinical and paraclinical diagnosis, treatment.	2
6. Specific and non-specific bone infections. Acute osteomyelitis. Chronic osteitis. Osteoarticular tuberculosis. Definition, etiopathogenesis, clinical forms, treatment.	2
7. Benignant and malignant osteoarticular tumours. Definition, classifications, clinical and paraclinical diagnosis, treatment.	2
BIBLIOGRAPHY	
<ol style="list-style-type: none"> Traumatologia osteoarticulară – curs Prof. Univ. Dr. Dan Anuşca Curs de Ortopedie și Traumatologie a Aparatului Locomotor – curs Prof. Univ. Dr. Dan Grecu, Șef Lucrări Dr. Dragoș Niculescu Oxford Handbook of Orthopaedics and Trauma. Gavin Bowden, Martin McNally Miller's Review of Orthopaedics - 8th Edition. Mark Miller, Stephen Thompson, 2019 	
8.2 Practical work (topics / themes)	
1. Clinical observation sheet of the orthopedic and trauma patient.	3
2. Clinical examination of the musculoskeletal system and of the patient with an orthopedic or traumatic pathology. Imagistic and laboratory investigations of the patient.	3
3. Fundamental lesions of the musculoskeletal system.	3
4. Preoperative evaluation of the surgical patient depending on the biological state and type of surgical	3

intervention (fractures, dislocations, joint replacement). Evaluation and stabilization of the polytrauma patient. Postoperative care of the surgical patient after regional or general anesthesia. Prophylactic methods of immediate general postoperative complications (respiratory and cardio-vascular complications or local complications (immediate or late).	
5. Antibiotic prophylaxis and treatment principles. Anti-inflammatory drugs and pain killers: classification, indications, dosage, examples. Anticoagulant treatment: classification, indications, dosage, examples. Prophylactic methods of immediate general postoperative complications (respiratory and cardio-vascular complications or local complications (immediate or late).	3
6. Orthopedic treatment of fractures. Splint and cast immobilisation. Indications of splint and cast. Transskeletal extension.	3
7. Surgical treatment of fractures. Osteosynthesis implants. Surgical approaches and techniques.	3
8. Performing invasive manoeuvres: urinary catheter, venous line, surgical approaches, surgical sutures, surgical drainage. Asepsis and antisepsis methods. Surgical wound care. Septic wound care. Wound draping technique. Care of a venous line. Postoperative nutrition.	3
9. Knee and hip replacement. Types of endoprostheses.	3
10. Postoperative and postimmobilisation functional rehabilitation of the patient with orthopedic or traumatic injury.	3
11. Clinical case presentation.	3
12. Operation room. Surgical techniques.	3
BIBLIOGRAPHY	
1. Traumatologia osteoarticulară – curs Prof. Univ. Dr. Dan Anuşca	
2. Curs de Ortopedie și Traumatologie a Aparatului Locomotor – curs Prof. Univ. Dr. Dan Grecu, Șef Lucrări Dr. Dragoș Niculescu	
3. Oxford Handbook of Orthopaedics and Trauma. Gavin Bowden, Martin McNally	
4. Miller's Review of Orthopaedics - 8th Edition. Mark Miller, Stephen Thompson, 2019	

9. CORROBORATING THE DISCIPLINE CONTENT WITH THE EXPECTATIONS OF EPISTEMIC COMMUNITY REPRESENTATIVES, PROFESSIONAL ASSOCIATIONS AND EMPLOYEE REPRESENTATIVES RELATING TO THIS PROGRAM

<ul style="list-style-type: none"> The Orthopaedics and Traumatology discipline is one of vital importance for a future medical doctor. The knowledge, acquired skill set and clinical attitudes learned at this discipline will give the future doctor the necessary prerequisites to face future challenges in all aspects of clinical work, given the high incidence of traumatic or orthopaedic pathology that can associate with other chronic/acute pathology.
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10. METHODOLOGICAL LANDMARKS

Types of activity	Teaching Techniques / learning materials and resources: explaining, interactive presentation, work in groups, teaching by solving problems/projects, etc. In case of special situations (alert states, emergency conditions, other types of situations that limit the physical presence of people) the activity can be carried out online using computer platforms approved by the Faculty / University. The online education process will be adapted accordingly to ensure the fulfilment of all the objectives provided in the discipline sheet
Course	Large groups discussion, Focused independent study, Presentation
Practical work	Heuristic conversation, Examining conversation, Experiment, Demonstration, Small groups discussion, Case study, etc.
Individual study	Before every course and practical stage

11. RECOVERY PROGRAM

	No. absences that can recover	Location of deployment	Period	In charge	Scheduling of topics
Absences recoveries	3	Orthopedic Clinic, SCJUC, 6 th floor	Friday, Saturday, Sunday 8.30-11.30	Assistant professor Daniel-Răzvan Diță, Assistant professor Alexandru Grecu	According with the missed practical stages
Schedule consultations / Students' Scientific Program	-	Orthopedic Clinic, SCJUC, 6 th floor	Friday, Saturday, Sunday 8.30-11.30	Lecturer Dragos Niculescu	According with student requirements
Program for students poorly trained	-	Orthopedic Clinic, SCJUC, 6 th floor	Friday, Saturday, Sunday 8.30-11.30	Prof. Grecu Dan, Lecturer Dragos Niculescu	According with student requirements or deficitary notions

12. ASSESSMENT			
Form of activity	Types of evaluation	Methods of evaluation	Percentage of final grade
Course	Summative during the exam	Written exam/ Online single and multiple choice exam given by using the UMF online platform	90%
Practical work	Practical methods	Written exam/ Online single and multiple choice exam given by using the UMF online platform	
Periodical evaluation			
Evaluation of individual activity			10%
Minimal standard	Minimum of 50 % for each evaluation component		
13. GUIDANCE AND COUNSELLING PROGRAMS			
Professional guidance and counselling programs (2 hours/monthly)			
Scheduling the hours		Location	In charge
Wednesday 12.00-12.30		Orthopedic Clinic, SCJUC, 6 th floor/online	Prof. Anusca Dan Prof. Grecu Dan Lecturer Dragos Niculescu

Endorsement date in the department: 27.09.2022

Department Director,
Prof. Valeriu ȘURLIN

Coordinator of study program,
Prof. Marius Eugen CIUREA

Discipline holder,
Prof. Dan GRECU