

**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	<b>MEDICINE</b>
1.3 Department	3
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	<b>INTERNAL MEDICINE - REUMATOLOGY</b>		
2.2. Discipline code	MED5101.B		
2.3 The holder of course activities	Professor Dr. Paulina Ciurea; Professor Dr. Anca Rosu		
2.4 The holder of seminar activities	Professor Dr. Paulina Ciurea; Professor Dr. Anca Rosu, Professor Dr. Florentin Ananu Vreju, Associate Professor Anca Emanuela Musetescu; Lecturer Cristina Criveanu, Lecturer Simona Bănicioiu-Covei, Lecturer Stefan Cristian Dinescu, Teaching Assistant Cristina Elena Biță, Teaching Assistant Alesandra Florescu		
2.5.Academic degree	Professor, Associate Professor, Lecturer, Assistant		
2.6. Employment (base norm/associate)	Base Norm		
2.7. Year of study	<b>V</b>	2.8. Semester	<b>I</b>
2.9. Course type (content)		2.10. Regime of discipline (compulsoriness)	
		<b>CSD</b>	

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

3.1 Number of hours per week	<b>7,14</b>	3.2 From which course	<b>2</b>	3.3 seminary/laboratory	<b>5,14</b>
3.4 Total hours in curriculum	<b>99,96</b>	3.5 From which course	<b>28</b>	3.6 seminary/laboratory	<b>71,96</b>
Time found distribution (hours)					
Study by manual, course support, bibliography, and notes					<b>20</b>
Additional documentation in the library, specialized electronic platforms and, on the field					<b>10,24</b>
Training seminars / labs, homework, reports, portfolios, and essays					<b>10</b>
Tutoring					<b>-</b>
Examinations					<b>2</b>
Other activities: counselling, student circles					<b>7,8</b>
3.7 Total hours of individual study	<b>50,04</b>				
3.9 Total hours per semester	<b>150</b>				
3.10 Number of credits	<b>6</b>				

**4. PREREQUISITES (where appropriate)**

4.1 curriculum	The students must have strong knowledge of anatomy, medical semiology, farmacology, internal medicine, clinical immunology
4.2 competency	-

**5. CONDITIONS (where appropriate)**

5.1. of course deployment	Course room/online
5.2. of seminary/ lab deployment	Hospital room/simulation room/online Preparation in advance by individual study

**6. SPECIFIC COMPETENCES ACCRUED<sup>7)</sup>**

<b>PROFESSIONAL COMPETENCES</b>	<b>C1</b> -to identify disease status and establish the correct diagnosys of the diseases
	<b>C4</b> -to address health issues in terms of specifics terms of community structure in relations to the social, economic and/or cultural communities that own
	<b>C5</b> –to initiate and conduct a scientific research and/or formative in own field of competence

<b>TRANSVERSAL COMPETENCES</b>	<p><b>CT1-Autonomy and responsibility:</b></p> <ul style="list-style-type: none"> <li>• Acquisition of moral guidelines, training of professional and civic attitudes, allowing students to be fair, honest, non-conflictual, cooperative, sympathetic to suffering, available to help peoples, interested in community development</li> <li>• To know, respect and contribute to the development of moral values and professional ethics</li> <li>• To learn to recognize when a problem arises and provide responsible solutions to solve it</li> </ul> <p><b>CT2-Social interaction:</b></p> <ul style="list-style-type: none"> <li>• To recognize and have respect for diversity and multiculturalism</li> <li>• To have or learn to develop team working skills</li> <li>• To communicate orally and writing requirements, working methods, results, to consult with his team</li> <li>• To get involved in volunteering, to know critical community issues</li> </ul> <p><b>CT3-Personal and professional development</b></p> <ul style="list-style-type: none"> <li>• To have openness to lifelong learning</li> <li>• To realise the need for individual study as the basis of personal autonomy and professional development</li> <li>• To optimally exploit his potential in creative and collective activities</li> <li>• To have ability to use information and communication technology</li> </ul>
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**7. DISCIPLINE OBJECTIVES (based on the grid of specific competences acquired)**

7.1 The general objective of the discipline	<p>Discipline of rheumatology objective is to provide students from V year, information and logistical support to be able to:</p> <p>communicate with the patient in appropriate way, to integrate into a team, to participate in diagnostic and therapeutic decision, to acquire appropriate ethical behaviour and to develop the ability to apply, solve, built, develop notions and concepts</p>
7.2 The specific objectives of the discipline	<p>The curriculum adapted to European quality standards of teaching and assessment methods used by involving students in research and evaluation of patients, rheumatology discipline aims to build skills that underlying medical act preventive, diagnostic, curative and rehabilitation</p> <p>Course completion, the student will be able to acquire</p> <p><b>COGNITIVE SKILLS</b> that will allow them:</p> <ul style="list-style-type: none"> <li>• To integrate knowledge learned from other disciplines</li> <li>• To analyse and synthesize information related to the course that they received on rheumatologic pathology</li> <li>• To appreciate the need for laboratory needed exploration patient assessment</li> <li>• To describe, to explain and evaluate the mechanisms by which the body adapts to variations in the internal or external environment</li> <li>• Critically analyse the variations of biological parameters and to identify factors that lead to these variations: pulmonary functional parameters, bile pigments, pancreatic enzymes, blood glucose, anthropometric parameters and seek clinical relevance</li> <li>• To interpret diagrams, charts, graphical representations of functions or functional parameters</li> <li>• To integrate theoretical and practical knowledge acquired in the discipline of rheumatology with those obtained from other fundamental disciplines and use them as a platform for clinical training</li> <li>• To communicate clearly, rigorous knowledge or results</li> <li>• To make assumptions and verify them by experiment</li> </ul> <p><b>PRACTICAL SKILLS:</b></p> <ul style="list-style-type: none"> <li>• To form a team, share tasks, collaborate, communicate needs, to follow a given protocol, record results, discuss them in team</li> <li>• To acquire a range of skills necessary to perform a physical examination of the patient with rheumatic disease</li> <li>• To properly assess the context ethiopathogenic type of rheumatologic diseases</li> <li>• To acquire and consolidate imaging methods in rheumatology,</li> <li>• To measure and calculate body mass index and waist-hip</li> <li>• To monitor the general condition of patients in terms of clinical and functional</li> <li>• To measure disease activity index and specific functionality rheumatologic diseases</li> <li>• To interpret biological markers of inflammation</li> <li>• To interpret results of immunological tests</li> </ul>

	<ul style="list-style-type: none"> <li>To develop appropriate diagnostic and therapeutic scheme rheumatologic pathology</li> <li>To prepare written reports on specific activities to conduct research in the field of rheumatology</li> </ul> <p><b>ATTITUDES:</b></p> <ul style="list-style-type: none"> <li>To be open to acquiring moral guidelines, training of professional and civic attitudes, to be able to help people, to be interested in community development</li> <li>To know, respect and contribute to the development of moral values and professional ethics</li> <li>To learn to recognize when a problem arises and provide responsible solutions to solve it</li> <li>To recognize and have respect for diversity and multiculturalism</li> <li>To have or learn to develop team working skills</li> <li>To communicate orally and writing requirements, working methods, results, to consult with his team</li> <li>To get involved in volunteering, to know critical community issues</li> <li>To have openness to lifelong learning</li> <li>To realise the need for individual study as the basis of personal autonomy and professional development</li> <li>To optimally exploit his potential in creative and collective activities</li> <li>To have ability to use information and communication technology</li> <li>To have initiative to engage in educational activities and scientific community</li> </ul>
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## 8. CONTENTS

8.1 Course (content units)	Hours
1. Introductory aspects in rheumatology discipline - concepts of immunology and autoimmunity, specific elements of clinical and laboratory tests for rheumatology evaluation	2
2. Systemic lupus erythematosus - basic elements, etyopathogenic	2
3. Systemic lupus erythematosus - clinical manifestations and forms , immunological context, developing positive and differential diagnosis , therapeutic attitude	2
4. Systemic scleroderma - etiopathogenic mechanisms, clinical implications, laboratory evaluation, elements of positive and differential diagnosis, therapeutic options	2
5. Poly / Dermatomyositis - etiology, classification, pathogenic mechanisms, clinical, laboratory context, developing positive diagnosis and differential regimens	4
6. Mixed connective tissue disease. Sjogren syndrome, diagnostic criteria and therapeutic approach	2
7. Rheumatoid arthritis - definition notions etiopathogenic, clinical and biological profile, clinical and evolutionary forms, positive and differential diagnosis, course of treatment.	4
8. Spondyloarthritis - seronegative group characteristics. Ankylosing Spondylitis - clinical, laboratory investigations and treatment regimens	2
9. Psoriatic arthritis . Enteropathy arthritis. Reactive arthritis - etiopathogenic aspects, clinical and therapeutic	2
10. Microcrystalline arthritis - Gout - definition, etiology notions defining hyperuricemia status , clinical course forms, differential diagnosis and positive, prophylactic and therapeutic measures specific	2
11. Systemic vasculitis, classification, diagnostic certainty and differential therapeutic approach	2
12. Osteoarthritis - definition, classification, positive diagnosis and therapeutic options	2

**BIBLIOGRAPHY**

1. The course taught
  2. Reumatologie. Vol I și II. Sub redacția Paulina Ciurea. Editura Medicală, București 2021. ISBN 978-973-39-0894-4 și ISBN 978-973-39-0895-1.
  3. Reumatologie, Ciurea Paulina, 2007. Editura Medicală Universitară, 2007, Craiova, ISBN 978-973-106-060-6. (accesibila in format imprimat la Biblioteca UMF Craiova).
  4. Medicina Interna - Reumatologie. Sub redactia Paulina Ciurea. Editura Medicală Universitară, 2013, Craiova, ISBN 978-973-106-207-5. (accesibila in format imprimat la Biblioteca UMF Craiova).
  5. Tehnici de terapie locala in reumatologie – Florentin Vreju, Paulina Ciurea (sub redactia), Editura Medicală Universitară, 2014, Craiova, ISBN 978-973-106-226-6. 1. (accesibila in format imprimat la Biblioteca UMF Craiova).
  6. Intrebări și răspunsuri in reumatologie – Anca Emanuela Musetescu, Paulina Ciurea (sub redactia), Editura Sitech, 2018, Craiova. (accesibila in format imprimat la Biblioteca UMF Craiova).
  7. Primer on the Rheumatic Diseases, edited by John H. Klippel, John H. Stone, Leslie J. Crofford, 2008. Editura New York: Springer, a 13- editie ( accesibila in format imprimat la Biblioteca UMF Craiova)
  8. Compendiu de Specialitati Medico-Chirurgicale. Volumul 2. Capitolul XI. Reumatologie. Sub redactia Victor Stoica, Viorel Scripcariu. Editura Medicala, 2016, Bucuresti, ISBN 978-973-39-0802-9.
  9. Adam Feather, David Randall, Mona Waterhouse: Kumar și Clark Medicină Clinică. Leonard Azamfirei, Anca Dana Buzoianu, Dan Ionuț Gheonea – coordonatorii ediției în limba română, Ediția a 10-a, Editura Hipocrate, București, 2021
- For online access, it will access the official website of UMF Craiova: [www.umfcv.ro](http://www.umfcv.ro) - Biblioteca - RESURSE ELECTRONICE: [expertconsultbook.com](http://expertconsultbook.com),  
Username: [library@umfcv.ro](mailto:library@umfcv.ro)  
Password: library

**8.2 Practical work (topics / themes)**

1. Physical examination of the osteoarticular system: clinical evaluation of articular sites inflamed, joint mobility, specific maneuvers	5,14
2. Extra-articular manifestations examination in autoimmune pathology and laboratory explorations specific	5,14
3. Items assessment in rheumatoid arthritis	5,14
4. Physical examination of the patient with spondylitis- covering items BASDAI and BASFI scores needed to achieve	5,14
5. Joint punctures technique: acquiring appropriate approach maneuvers minimally invasive intra- articular pathology in the context of an underlying inflammatory ( eg synovial fluid extraction and local infiltration of corticosteroids in case of knee osteoarthritis reaction) . Indications and contraindications of intraarticular infiltration, synovial fluid layout interpretation.	15,42
6. Elements of musculoskeletal ultrasound and interpretation sonoanatomic major changes: joint effusion, synovitis degree, irregularities bone cartilage damage structures)	10,28
7. Interpretation of images obtained by conventional radiology, computer tomography and magnetic resonance imaging - for rheumatoid arthritis, seronegative spondyloarthropathies , major collagen , arthritis	10,28
8. Evaluation and interpretation of diagnostic techniques in osteoporosis (DXA)	5,14
9. Learning hygienic- dietary therapeutic measures appropriate rheumatologic patient pathology	5,14
10. Using specific pharmacological therapy in rheumatic diseases	5,14

**BIBLIOGRAPHY**

1. Course lecture:
2. Reumatologie, Ciurea Paulina, 2007. Editura Medicală Universitară, 2007, Craiova, ISBN 978-973-106-060-6. (accesibila in format imprimat la Biblioteca UMF Craiova).
3. Reumatologie, Eugen Popescu, Denisa Predeteanu, Ruxandra Ionescu, Editura National, Bucuresti - 1997( accesibila in format imprimat la Biblioteca UMF Craiova).
4. Primer on the Rheumatic Diseases, edited by John H. Klippel, John H. Stone, Leslie J. Crofford, 2008. Editura New York: Springer, a 13- editie ( accesibila in format imprimat la Biblioteca UMF Craiova)
5. Compendiu de Specialitati Medico-Chirurgicale. Volumul 2. Capitolul XI. Reumatologie. Sub redactia Victor Stoica, Viorel Scripcariu. Editura Medicala, 2016, Bucuresti, ISBN 978-973-39-0802-9. Medicina Interna - Reumatologie. Sub redactia Paulina Ciurea. Editura Medicală Universitară, 2013, Craiova, ISBN 978-973-106-207-5. (accesibila in format imprimat la Biblioteca UMF Craiova). (accessible in printed format at the Library UMF Craiova)

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

- Knowledge, practical skills and attitudes learned in this discipline provides the basis for the study of pathological processes, for the diagnosis, curative and rehabilitation of rheumatic diseases.

## 10. METHODOLOGICAL LANDMARKS

Types of activity	Teaching Techniques / learning materials and resources: In case of special situations (alert states, emergency states, 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 fulfillment of all the objectives provided in the discipline file.
Course	Lecture, interactive group work, learning problems / projects etc.
Practical work	Use these combined methods: interactive discussion, consideration in the form of short stories and test similar to the residential grid simulation of complex practical cases, plans attitude diagnostic and therapeutic
Individual study	Before each course and each practical work

## 11. RECOVERY PROGRAM

	No. absences that can recover	Place of deployment	Period	In charge	Scheduling of topics
Absences recoveries	3 absences	- Headquarters discipline: - Medical Clinic I, Section Rheumatology /online - Internal Medicine Clinic, Hospital CFR /online	Monday-Wednesday, hours : 11-12 <sup>30</sup>	The university which was conducted under the guidance of clinical training	-
Schedule consultations / Students' Scientific Circle	-	- Headquarters discipline: - Medical Clinic I, Section Rheumatology /online - Internal Medicine Clinic, Hospital CFR /online	Every Friday hours: 13-15 <sup>00</sup>	Professor Paulina Ciurea Professor Anca Rosu Professor Florentin Vreju Associate Professor Anca Musetescu Lecturer Cristina Criveanu Lecturer Simona Băncioiu-Covei, Lecturer Stefan Cristian Dinescu Teaching Assistant Cristina Biță Teaching Assistant Alesandra Florescu	The themes developed in the course and practical internships and those proposed by the student, in accordance news rheumatology areas
Program for students poorly trained	-	- Headquarters discipline: - Medical Clinic I, Section Rheumatology /online	Monday and Tuesday hours 15-16 <sup>30</sup>	Professor Florentin Vreju Associate Professor Anca Musetescu Lecturer Cristina Criveanu Lecturer Simona Băncioiu-Covei, Lecturer Stefan Cristian Dinescu Teaching Assistant Cristina Biță Teaching Assistant Alesandra Florescu	The themes developed in the course and practical internships

## 12. ASSESSMENT

Activity	Types of assesment	Methods of evaluation	Percentage from final grade
Course	Formative assesment through essays, projects and surveys during the semester Summative assesment during the exam	Multiple Choice Questions Answering System (MCQ)/MCQ with the help of the IT platform in the online version.	50%

<b>Practical work</b>	Formative assesment through Multiple Choice Questions Answering System (MCQ) or/and descriptive, projects, survey during the semester. Periodic assesment during the semester Summative assesment during the exam	Multiple Choice Questions Answering System (MCQ) simultaneously with the one from the course / with the help of the video platform in the online version.	40%
<b>Periodic checks</b>			5%
<b>Attendance at the course</b>			5%
<b>Minimum performance standard</b>	At least 50% for each component of the evaluation		
<b>13. GUIDANCE AND COUNSELLING PROGRAMS</b>			
<b>Professional guidance and counselling programs (2 hours/monthly)</b>			
<b>Scheduling the hours</b>	<b>Place of deployment</b>		<b>In charge</b>
30 minutes / week after course completion	Headquarters discipline/online: - Medical Clinic I, Section Rheumatology - Internal Medicine Clinic, Hospital CFR		Professor Paulina Ciurea Professor Anca Rosu Professor Florentin Ananu Vreju

**Endorsement date in the department: 28.09.2022**

**Department Director,  
Prof. Cristin VERE**

**Coordinator of study program  
Prof. Marius-Eugen CIUREA**

**Discipline holder,  
Prof. Paulina CIUREA**