Course Description Form

1. Course Name: Rheu	umatology				
2. Course Code: MEDRhe-52					
3. Semester / Year: 2 ⁿ	nd semester/ 5th year				
4. Description Prepara	ration Date: 1/3/2024				
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5. Available Attendance	ce Forms: Physical (mandatory) and Virtual(complementary)				
6. Number of Credit Ho	fours (Total) / Number of Units (Total)				
1 credit/ hour: 15 h	nours in total				
	tor's name (mention all, if more than one name)				
Name: Yasameen A					
Email: jasmine86ab	bbss@nahrainuniv.edu.iq				
8. Course Objectives	Knowledge				
Course Objectives	Demonstrate knowledge in the basic sciences pertinent to				
	connective tissues and joints.				
	Explain the signs and symptoms of common regional and				
	rheumatic presentations in terms of their underlying				
	scientific principles.				
	Explain the scientific principles of common autoimmune and imaging investigative techniques, and critique their				
	appropriateness and results.				
	4. Explain the scientific principles of common approaches to				
	the management of patients with autoimmune rheumatic				
	diseases and regional complaints.				
	Skills				

- 1. Apply acquired knowledge to identify and interpret signs and symptoms associated with connective tissue and joint disorders.
- 2. Utilize scientific principles to analyze and interpret imaging and investigative techniques commonly used in diagnosing autoimmune and rheumatic diseases.
- 3. Develop critical thinking skills to assess the appropriateness of investigative techniques and management approaches for patients with autoimmune rheumatic diseases.
- 4. Demonstrate effective communication skills in explaining complex scientific principles related to autoimmune and rheumatic diseases to patients and colleagues.

Ethics

- 1. Uphold ethical standards in the application of diagnostic and investigative techniques, ensuring patient well-being and autonomy.
 - 2. Respect patient confidentiality and privacy in the management of autoimmune rheumatic diseases and regional complaints.
 - 3. Recognize and address potential biases in the evaluation and management of patients with autoimmune rheumatic diseases, ensuring equitable care for all.
 - 4. Demonstrate integrity and honesty in critiquing investigative techniques and management approaches, prioritizing patient welfare above all else.

9. Teaching and Learning Strategies

Strategy

- 1. Interactive Lectures: Physical attendance
- 2. Problem-Based Learning (PBL): Via the Google Classroom

- 3. Small Group Discussions
- 4. Hands-on Workshops (selected students: optional)
- 5. Case-Based Learning (CBL): integrated within the lectures
- 6. Self-Directed Learning
- 7. Assessment Strategies
- 1. Continuous Assessment:
 - Regular quizzes and assignments.
 - Participation in interactive sessions.
- 2. Case Presentations:
 - Students present clinical cases.
 - Evaluation based on diagnosis and management.
- 3. Group Participation:
 - Active involvement in group discussions.
 - Criteria include contribution and engagement.
- 4. Skills Assessment:
 - Practical assessments of clinical skills.
 - Evaluation of proficiency in interventions.
- 5. Case Analysis:
 - Analysis of written or virtual case studies.
 - Focus on clinical reasoning and management.
- 6. Self-Assessment:
 - Online quizzes and reflective exercises.
 - Students evaluate understanding and set goals.
- 7. Comprehensive Examinations:
 - End-of-course MCQs and case-based assays.
 - Assess overall comprehension and application.

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10. Cou	se Siru	clure			
Week	Hours	Required Learning	Unit or subject nam	Learning method	Evaluation
		Outcomes			method

		1 11	Do ala anadan a alamain	T a strong	7.700
1		1. Understand the	Back and neck pain	Lecture	MCQ
		fundamental			•
		anatomical structures			
	1	of the back, neck, and			
		joints, including their			
		interrelationships and			
		functions.			
		2. Utilize			
		comprehensive			
		knowledge of the			
		physiological			
		mechanisms			
		underlying			
		degenerative and			
		inflammatory diseases			
		to effectively assess			
		patient complaints			
		related to these			
		conditions.			
		3. Identify and			
		enumerate the diverse			
		causes of back pain,			
		encompassing both			
		common etiologies and			
		less frequent but			
		potentially serious			
		factors.			
		4. Demonstrate			
		proficiency in			
		recognizing "red flags"			
		associated with back			
		pain, indicative of			
		underlying pathologies			
		requiring urgent			
		evaluation and			
		intervention.			
		5. Familiarize oneself			
		with a range of			
		management strategies			
		for back pain, spanning			
		from simple			
		interventions to			
		mitigate symptoms to			
		protocols for			
		addressing life-			
		threatening situations.			
		6. Develop the ability to			
		discern mimickers of			
		diagnosis and			
		appropriate treatment			
		planning.			
		diagnosis and appropriate treatment			

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2	1 1. Comprehend the underlying etiology and pathophysiology of Rheumatoid Arthritis (RA), elucidating mmune-mediated mechanisms and their effects on joint and cissue function. 2. Proficiently discern the varied patterns and clinical presentations associated with RA, distinguishing manifestations across different disease stages. 3. Recognize and evaluate the broad spectrum of extraarticular manifestations commonly linked to RA, assessing their potential impact on patient prognosis and management. 4. Interpret the key aboratory findings characteristic of RA, including serological markers such as cheumatoid factor and anti-cyclic citrullinated peptide (anti-CCP), as well as inflammatory markers like C-reactive protein (CRP) and	RA	Lecture+PBL	
	, ,			
	erythrocyte			
	sedimentation rate (ESR).			
3	1 1. Identify and differentiate the differential diagnosis of Rheumatoid Arthritis (RA) from other rheumatic and autoimmune conditions, utilizing clinical, laboratory, and imaging modalities. 2. Develop comprehensive treatment plans for RA patients, employing a stepwise approach	RA part 2	Lecture+case discussion	MCQ+ Formative

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		that integrates			
		disease-modifying			
		anti-rheumatic drugs			
		(DMARDs),			
		nonsteroidal anti-			
		inflammatory drugs			
		(NSAIDs),			
		corticosteroids, and			
		biologic agents as			
		appropriate.			
		3. Demonstrate			
		thorough			
		understanding of the			
		primary DMARDs used			
		in the management of			
		RA, including			
		methotrexate,			
		sulfasalazine,			
		hydroxychloroquine,			
		and biologic agents,			
		along with their major			
		contraindications and			
		potential side effects.			
		4. Evaluate and			
		anticipate			
		complications arising			
		from RA, encompassing			
		joint deformities,			
		extra-articular			
		manifestations,			
		cardiovascular disease,			
		and increased			
		infections, while also			
		understanding the			
		leading causes of			
		mortality in RA			
		patients, such as			
		cardiovascular events			
		and infections.			
4	1	1. Distinguish between	CTD part 1	Lecture+classroom	MCQ+
_		the various types of		activity	Formative
		Connective Tissue			
		Diseases (CTDs),			
		including systemic lupus			
		erythematosus (SLE),			
		rheumatoid arthritis,			
		systemic sclerosis,			
		Sjögren's syndrome, and			
		others, by analyzing			
		their distinct clinical			
		features and diagnostic			
		criteria.			
		2. Develop a			
		comprehensive			

	understanding of the			
	fundamental etiology			
	and pathophysiology			
	that underlie different			
	presentations of SLE,			
	elucidating the complex			
	interplay of genetic,			
	environmental, and			
	immunological factors			
	contributing to disease			
	development and			
	progression.			
	3. Explain the basic			
	mechanisms of			
	autoimmunity in SLE,			
	including aberrant			
	immune responses			
	targeting self-antigens			
	such as nuclear			
	components, resulting in			
	tissue damage and			
	systemic inflammation			
	characteristic of the			
	disease.			
	4. Familiarize oneself			
	with the various types of			
	upus, including systemic			
	upus erythematosus			
	(SLE), cutaneous lupus			
	erythematosus (CLE),			
	and drug-induced lupus,			
	while also			
	understanding the			
	classification criteria			
	established by			
	organizations such as the			
	American College of			
	Rheumatology (ACR)			
	and the Systemic Lupus			
	International			
	Collaborating Clinics			
	(SLICC).			
5	1 1. Recognize and	SLE	lecture	MCQ+
) 3	differentiate between the	~- -		Formative
	various presentations of			TOTHIALIVE
+6	Lupus, ranging from mild			
'	to severe manifestations,			
	including Lupus nephritis			
	pathology and lupus			
	cerebritis, by evaluating			
	clinical signs and			
	symptoms.			
	2. Recall and identify			
	the potential differential			
	diagnoses (DDX)			
	מומקווטטכט (מומקוו			

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		associated with Lupus			
		complaints, utilizing			
		comprehensive			
		knowledge of			
		overlapping symptoms			
		and clinical patterns to			
		facilitate accurate			
		diagnosis.			
		3. Formulate treatment			
		strategies tailored to the			
		different presentations of			
		Lupus, integrating			
		pharmacological			
		interventions, lifestyle			
		modifications, and			
		disease monitoring			
		protocols to optimize			
		patient outcomes.			
		4. Discuss the disease			
		course and potential			
		complications of Lupus,			
		including long-term			
		sequelae such as organ			
		damage, cardiovascular			
		complications, and			
		increased susceptibility to			
		infections, while			
		emphasizing the			
		importance of early			
		intervention and			
		multidisciplinary			
		management approaches.			
7	1	1. Demonstrate	CTD part 2	lecture	MCO
7	1	proficiency in identifying	CID part 2	lecture	MCQ+
					Formative
		and categorizing the			
		types of Connective			
		Tissue Diseases (CTDs),			
		ncluding Scleroderma,			
		Autoimmune			
		Myopathies, Sjögren's			
		Syndrome, Overlap			
		Syndromes, and Mixed			
		CTD, by understanding			
		their basic etiologies,			
		clinical characteristics,			
		and pathophysiological			
		mechanisms.			
		2. Analyze the main			
		presentations and			
		distinguish the leading			
		serological markers			
		associated with each			
		type of CTD, utilizing			
		diagnostic criteria and			
		aboratory findings to			

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		aid in accurate diagnosis			
		and disease			
		management.			
		3. Develop			
		comprehensive			
		treatment plans tailored			
		to the specific needs of			
		patients with each CTD,			
		integrating			
		pharmacological			
		interventions,			
		mmunosuppressive			
		therapies, and			
		supportive measures to			
		address disease activity			
		and minimize			
		complications.			
		4. Recognize and			
		evaluate potential life-			
		threatening			
		presentations of each			
		CTD, including severe			
		organ involvement,			
		vascular complications,			
		-			
		1 3			
		compromise, while			
		mplementing timely			
		nterventions to mitigate			
		risks and optimize			
		patient outcomes.			
MID TERM EX	AMS				
		<u> </u>			
10		1. Understand the	Vasculitis	lecture	MCQ+
		classification of vessels			Formative
	1	and vasculitides,			1 of mative
		distinguishing between			
		arge, medium, and small			
		vessel involvement, while			
		identifying their			
		respective clinical and			
		pathological features.			
		2. Recognize clues			
		suggestive of vasculitides,			
		including characteristic			
		symptoms, laboratory			
		findings, and imaging			
		patterns, to facilitate			
		prompt diagnosis and			
		appropriate management.			
		3. Differentiate the			
		various patterns of			
		presentation observed in			
		vasculitides, such as			
		cutaneous, systemic, and			
				1	

organ-specific manifestations, to guide tailored diagnostic approaches and treatment strategies. 4. Implement comprehensive diagnostic approaches for large, medium, and small vessel vasculitides, incorporating clinical assessment, laboratory investigations, imaging studies, and histopathological examination, as necessary, to confirm diagnosis and assess disease severity. 5. Develop individualized treatment strategies for large, medium, and small vessel vasculitides, utilizing a combination of
tailored diagnostic approaches and treatment strategies. 4. Implement comprehensive diagnostic approaches for large, medium, and small vessel vasculitides, incorporating clinical assessment, laboratory investigations, imaging studies, and histopathological examination, as necessary, to confirm diagnosis and assess disease severity. 5. Develop individualized treatment strategies for large, medium, and small vessel vasculitides, utilizing a
approaches and treatment strategies. 4. Implement comprehensive diagnostic approaches for large, medium, and small vessel vasculitides, incorporating clinical assessment, laboratory investigations, imaging studies, and histopathological examination, as necessary, to confirm diagnosis and assess disease severity. 5. Develop individualized treatment strategies for large, medium, and small vessel vasculitides, utilizing a
strategies. 4. Implement comprehensive diagnostic approaches for large, medium, and small vessel vasculitides, incorporating clinical assessment, laboratory investigations, imaging studies, and histopathological examination, as necessary, to confirm diagnosis and assess disease severity. 5. Develop individualized treatment strategies for large, medium, and small vessel vasculitides, utilizing a
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comprehensive diagnostic approaches for large, medium, and small vessel vasculitides, incorporating clinical assessment, laboratory investigations, imaging studies, and histopathological examination, as necessary, to confirm diagnosis and assess disease severity. 5. Develop individualized treatment strategies for large, medium, and small vessel vasculitides, utilizing a
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medium, and small vessel vasculitides, incorporating clinical assessment, laboratory investigations, imaging studies, and histopathological examination, as necessary, to confirm diagnosis and assess disease severity. 5. Develop individualized treatment strategies for large, medium, and small vessel vasculitides, utilizing a
medium, and small vessel vasculitides, incorporating clinical assessment, laboratory investigations, imaging studies, and histopathological examination, as necessary, to confirm diagnosis and assess disease severity. 5. Develop individualized treatment strategies for large, medium, and small vessel vasculitides, utilizing a
vasculitides, incorporating clinical assessment, laboratory investigations, imaging studies, and histopathological examination, as necessary, to confirm diagnosis and assess disease severity. 5. Develop individualized treatment strategies for large, medium, and small vessel vasculitides, utilizing a
clinical assessment, laboratory investigations, imaging studies, and histopathological examination, as necessary, to confirm diagnosis and assess disease severity. 5. Develop individualized treatment strategies for large, medium, and small vessel vasculitides, utilizing a
laboratory investigations, imaging studies, and histopathological examination, as necessary, to confirm diagnosis and assess disease severity. 5. Develop individualized treatment strategies for large, medium, and small vessel vasculitides, utilizing a
imaging studies, and histopathological examination, as necessary, to confirm diagnosis and assess disease severity. 5. Develop individualized treatment strategies for large, medium, and small vessel vasculitides, utilizing a
histopathological examination, as necessary, to confirm diagnosis and assess disease severity. 5. Develop individualized treatment strategies for large, medium, and small vessel vasculitides, utilizing a
examination, as necessary, to confirm diagnosis and assess disease severity. 5. Develop individualized treatment strategies for large, medium, and small vessel vasculitides, utilizing a
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5. Develop individualized treatment strategies for large, medium, and small vessel vasculitides, utilizing a
individualized treatment strategies for large, medium, and small vessel vasculitides, utilizing a
strategies for large, medium, and small vessel vasculitides, utilizing a
medium, and small vessel vasculitides, utilizing a
vasculitides, utilizing a
combination of
immunosuppressive
agents, corticosteroids,
biologic therapies, and
supportive measures to
achieve disease control
and minimize
complications.
6. Recognize potential
mimickers of vasculitides,
including infections,
malignancies, and other
inflammatory conditions,
by utilizing clinical
udgment, comprehensive
evaluation, and
appropriate diagnostic
testing to differentiate
true vasculitides from
other pathologies.
11 1. Understand the SPA lecture MCQ+
spectrum of Formativ
Spondyloarthropathies
(SPA), encompassing
Ankylosing Spondylitis
(AS), Psoriatic Arthritis
(PsA), Reactive Arthritis
(ReA), and Enteropathic
Arthritis (associated with
inflammatory bowel
disease), by elucidating
their basic etiologies and
pathogenic mechanisms.

2. Identify the common		
clinical features shared by		
all SPA, including		
inflammatory back pain,		
enthesitis, peripheral		
arthritis, and extra-		
articular manifestations		
such as uveitis and		
psoriasis, to facilitate		
recognition and diagnosis.		
3. Differentiate between		
specific types of SPA and		
their characteristic clinical		
presentations, such as		
axial involvement		
predominant in AS,		
peripheral arthritis and		
skin involvement in PsA,		
and the association with		
preceding infections in		
ReA.		
4. Employ a systematic		
approach to differential		
diagnosis, considering		
other rheumatologic		
conditions, infectious		
etiologies, and non-		
inflammatory causes of		
musculoskeletal		
symptoms, based on		
clinical evaluation,		
laboratory testing, and		
imaging studies.		
5. Utilize appropriate		
diagnostic modalities,		
including laboratory		
investigations (such as		
inflammatory markers,		
HLA-B27 testing), imaging		
studies (such as MRI,		
radiographs), and clinical		
assessment tools (such as		
Bath Ankylosing		
Spondylitis Disease		
Activity Index), to confirm		
diagnosis and assess		
disease activity. 6. Establish basic		
therapeutic targets for		
SPA management, aiming		
to reduce inflammation,		
control symptoms,		
preserve function, and prevent structural		
damage, through the use		
uamage, un ough the use		

				1	
		of nonsteroidal anti-			
		inflammatory drugs			
		(NSAIDs), disease-			
		modifying antirheumatic			
		drugs (DMARDs), biologic			
		agents, and targeted			
		therapies.			
		7. Recognize and manage			
		potential complications of			
		SPA, including spinal			
		deformities, sacroiliitis,			
		peripheral joint damage,			
		uveitis, and inflammatory			
		bowel disease-related			
		complications, through			
		appropriate monitoring			
		and multidisciplinary care.			
12	1	1. Identify the various	Crystal Arthritis	lecture	MCQ+
12	1	types of crystals	31 / 3 (411 1413 1413		•
		implicated in crystal			Formative
		deposition diseases,			
		including monosodium			
		urate (MSU), calcium			
		pyrophosphate dihydrate			
		(CPPD), and			
		hydroxyapatite crystals,			
		by elucidating their			
		composition and			
		pathophysiological			
		mechanisms of formation.			
		2. Explore the			
		pathophysiology			
		underlying crystal			
		formations, encompassing			
		factors such as			
		supersaturation of bodily fluids, alterations in pH			
		levels, and impaired			
		crystal clearance mechanisms, to			
		·			
		comprehend the triggers			
		and mechanisms leading			
		to crystal deposition. 3. Recognize the diverse			
		clinical presentations associated with different			
		types of crystals, ranging			
		from acute gouty arthritis			
		in MSU crystal deposition			
		to pseudogout attacks in			
		CPPD crystal deposition,			
		and consider			
		manifestations such as			
		tophaceous deposits and			
1	1	chronic joint damage.			

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	4. Employ diagnostic			
	approaches for crystal			
	deposition diseases,			
	utilizing techniques such			
	as joint aspiration with			
	polarized light			
	microscopy to visualize			
	characteristic crystal			
	shapes, alongside			
	aboratory tests to assess			
	inflammatory markers			
	and confirmatory imaging			
	studies.			
	5. Demonstrate			
	proficiency in			
	distinguishing crystal			
	deposition diseases from			
	infectious causes of joint			
	inflammation, through			
	careful clinical evaluation,			
	•			
	appropriate laboratory			
	investigations (including			
	synovial fluid analysis),			
	and consideration of risk			
	factors and predisposing			
	conditions.			
	6. Establish therapeutic			
	targets for managing			
	crystal deposition			
	diseases, aiming to			
	alleviate acute symptoms,			
	reduce inflammation,			
	prevent recurrent attacks,			
	and address underlying			
	metabolic abnormalities			
	through lifestyle			
	modifications,			
	pharmacological			
	interventions (such as			
	nonsteroidal anti-			
	inflammatory drugs and			
	colchicine), and targeted			
	therapies.			
13	1 1. Explain the	OA	lecture	MCQ+
	fundamental etiology and			Formative
	pathophysiology			
	underlying Osteoarthritis			
	(OA), elucidating the			
	intricate interplay			
	between mechanical			
	stress, joint inflammation,			
	and cartilage degradation.			
	2. Identify the various			
	types of OA and their			
	diverse clinical			

				1	1
	presentations across				
	different joints,				
	considering factors such				
	as age, genetics, and joint				
	biomechanics in disease				
	manifestation.				
	3. Understand the				
	progressive degeneration				
	and eventual fate of joints				
	affected by OA, including				
	cartilage erosion,				
	subchondral bone				
	changes, osteophyte				
	formation, and joint				
	deformity.				
	4. Employ differential				
	diagnosis (DDx)				
	techniques to distinguish				
	OA from other rheumatic				
	and degenerative				
	conditions, utilizing				
	clinical assessment,				
	imaging studies, and				
	laboratory tests as				
	necessary.				
	5. Evaluate therapeutic				
	options for managing OA,				
	including controversial				
	supplements, intra-				
	articular injections (such				
	as corticosteroids,				
	· · · · · · · · · · · · · · · · · · ·				
	(such as arthroplasty,				
	osteotomy), considering				
	their efficacy, risks, and patient-specific factors in				
	•				
	treatment decision- making.				
	1. Understand the causes	1455	<u> </u>	MCO E	
14	l l	MBD	lecture	MCQ+Form	ative
	and mechanisms of major				
	Metabolic Bone Diseases				
	(MBD), including				
	osteoporosis,				
	osteomalacia, Paget's				
	disease, and metabolic				
	osteopathies.				
	2. Recognize the clinical				
	types and presentations of				
	MBD, noting characteristic				
	symptoms, signs, and				
	diagnostic findings.				
	3. Identify diverse				
	manifestations of MBD,				
	including fractures, bone]

			1		
		pain, and skeletal		I	
		deformities.			
		4. Differentiate MBD		ļ	
		from other bone disorders			
		through clinical		l	
		evaluation, lab tests, and		ļ	
		imaging.		l	
		5. Utilize diagnostic			
		methods such as bone			
				I	
		density testing and			
		biochemical assays.			
		6. Discuss preventive		ļ i	
		and therapeutic options		ļ i	
		for managing MBD,		ļ i	
		including lifestyle changes		ļ i	
		and pharmacological		ļ i	
		interventions tailored to		ļ i	
	L	individual needs.		<u> </u>	
15	1	1 Comprehend the	REHAB	lecture	
13		fundamentals of	KLIUD	iectui e	
		Rehabilitation Medicine,		ļ i	
		encompassing its		ļ i	
		principles and objectives		ļ i	
		in restoring function and		l i	
				ļ i	
		enhancing quality of life.		ļ i	
		2. Differentiate between		ļ i	
		the various types of		ļ i	
		rehabilitation, including		ļ i	
		physical, occupational,		ļ i	
		and speech therapy,		ļ i	
		tailored to address		ļ i	
		specific impairments and		ļ i	
		disabilities.		l i	
		3. Identify and analyze		ļ i	
		the different physical		ļ i	
		modalities and exercises		ļ i	
		utilized in rehabilitation,		ļ i	
		considering their		ļ i	
		indications and		ļ	
		contraindications for		ļ i	
				l i	
		optimal therapeutic		ļ i	
		outcomes.		ļ i	
		4. Evaluate the		ļ i	
		appropriateness of		ļ	
		physical modalities and		ļ i	
		exercises based on		ļ i	
		individual patient needs,		ļ i	
		medical conditions, and		ļ i	
		treatment goals.		ļ i	
		5. Implement evidence-		ļ i	
		based rehabilitation		ļ i	
		interventions, employing		l i	
		a multidisciplinary		ļ i	
		approach to maximize		ļ i	
		patient outcomes and		ļ i	
	l	patient outcomes and	<u></u>	<u> </u>	<u> </u>

facilitate independence in daily activities. 6. Continuously assess and adapt rehabilitation plans based on patient progress, functional goals, and evolving medical requirements, ensuring holistic and patient-centered care.		

11. Course Evaluation

- 1. Continuous Assessment
- 2. Case Presentations
- 3. Group Participation
- 4. Skills Assessment
- 5. Case Analysis
- 6. Self-Assessment: Via Google Classroom
- 7. Comprehensive Examinations (MCQs and Case Based Assays)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any	 Davidson's Principles and Practice of Medicine Bailey and Love's textbook of surgery 		
	3. Harrison's Principles of Internal Medicine		
Main references (sources)	Kelley and Firestein Textbook of Rheumatology		
Recommended books and references	UPTODATE		
(scientific journals, reports)			
Electronic References, Websites	EULAR/ACR websites:		
	https://rheumatology.org/		