



Course Specifications

Course Title:	Subspecialty Medicine
Course Code:	IMD591
Program:	Bachelor of Medicine, Bachelor of Surgery (MBBS)
Department:	NA
College:	College of Medicine
Institution:	Alfaisal University

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A. Course Identification

1. Credit hours: 9 (2+14+0)
2. Course type
a. University <input type="checkbox"/> College <input checked="" type="checkbox"/> Department <input type="checkbox"/> Others <input type="checkbox"/>
b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered: Sem 9/10, Year 5
4. Pre-requisites for this course (if any): Sem 7 and 8
5. Co-requisites for this course (if any): None

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	35	23%
2	Clinics, Case presentations, Bed side teaching, Morning reports, Grand rounds, Student presentations, SGDs	120	77%

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	35
2	Laboratory/Studio	
3	Tutorial	120
4	Others (specify)	
	Total	155

B. Course Objectives and Learning Outcomes

1. Course Description

Subspecialty Medicine is a clinical clerkship aiming to give in-depth knowledge and skills in subspecialties of hematology/oncology, cardiology-cardiovascular surgery, endocrinology, infectious diseases, rheumatology. Each of cardiology/cardiovascular surgery, hematology/oncology, and internal medicine (endocrinology, infectious diseases, rheumatology) are 3-week long rotations.

2. Course Main Objective

To give in-depth knowledge and skills in subspecialties of hematology/oncology, cardiology-cardiovascular surgery, endocrinology, infectious diseases, rheumatology.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and Understanding	
1.1	Acquire the essential knowledge & competency for evaluation, diagnosis and plan initial treatment for patients with cardiac, hematologic/oncologic, infectious, endocrine and rheumatic diseases.	PLO4,6
1.2	Assess clinical presentations and construct differential diagnosis for cardiovascular, hematologic, oncologic, disorders in adults and children.	PLO16
1.3	Learn the application of scientific clinical reasoning and evidence base to medical practice.	PLO12,18,30
1.4	Recognize and manage emergency cardiovascular, hematological and oncological, infectious, endocrine and rheumatic conditions encountered in adults and children.	PLO7,9,12,17,20
1.5	Acquire knowledge of preventive aspects of the common diseases and ways to implement them.	PLO20,21,22,23
1.6	Evaluate & analyze prognosis and clinical outcomes and enhance clinical information management.	PLO18
2	Skills :	
2.1	Take relevant history and interpret it.	PLO13
2.2	Perform appropriate physical examination and interpret it.	PLO14
2.3	Interpret investigations, and reach a diagnosis for cardiovascular, hematologic and oncologic disorders.	PLO5,7,9,12,18
2.4	Develop and implement a management and work-up plan.	PLO18
2.5	Carry out clinical procedures for cardiovascular, hematologic and oncologic disorders	PLO15
2.6	Promote patient engagement & communication.	PLO19,24
2.7	Communicate effectively in a medical context with patients, relatives, colleagues and other health workers	PLO24
2.8	Develop interpersonal competencies (communication and collaboration), cognitive skills (problem solving, critical thinking and reflectivity), work-related skills (planning and time management), and professionalism (integrity, sense of responsibility, respect and empathy).	PLO25,27
3	Values:	
3.1	Respect and maintain privacy of the patients and their families.	
3.2	Adhere to the attendance policy.	
3.3	Demonstrate interpersonal skills necessary to maintain professionalism, communicate appropriately with patients, their families, and other medical and paramedical personnel involved in patient care.	PLO25,27,28

C. Course Content

No	List of Topics	Contact Hours
1	Rheumatology: 1. Rheumatoid Arthritis 2. Crystal Deposition Arthritides	29

	<ul style="list-style-type: none"> 3. Seronegative Spondyloarthritis 4. Infectious Arthritis 5. Inflammatory myopathy 6. Still's disease 7. Systemic sclerosis 8. Connective Tissue Diseases 9. Systemic Lupus Erythematosus 10. Vasculitis & Behcet's disease 11. Antiphospholipid syndrome 	
2	<p>Endocrinology:</p> <ul style="list-style-type: none"> 1. Pituitary gland Disorders 2. Thyroid & Parathyroid glands disorders 3. Adrenal gland Disorders (Addison, Cushing, Pheo, Conn's) 4. Diabetes Mellitus (covered in MED 471) 5. Lipid Disorders 6. Obesity 7. Osteoporosis and osteomalacia 	25
3	<p>Infectious Diseases:</p> <ul style="list-style-type: none"> 1. Soft Tissue and Bone Infections 2. Infections of the Nervous System Tuberculosis 3. HIV/AIDS 4. Malaria 5. STD 6. Schistosomiasis 7. Leishmaniasis 8. G.E / Food Poisoning 9. Brucellosis 10. Pneumonia 11. Urinary Tract Infections 12. Antibiotic-Associated Diarrhea 13. Bacterial Endocarditis 14. Fever of Unknown Origin 	32
4	<p>Hematology/Oncology:</p> <ul style="list-style-type: none"> 1. Acute Lymphoblastic Leukemia 2. Acute Myeloid Leukemia 3. Pediatric Solid Tumors 4. Hemoglobinopathies 5. Abdominal Mass (case presentation) 6. Bone Marrow Failure 7. Hemophilias 8. Anemia 9. Basics of Cancer Epidemiology 10. Bone Marrow Failure 11. Breast Cancer 12. Chronic Leukemia 13. Coagulation Disorders 14. Colorectal Cancer 15. Hemoglobinopathies 16. Hemophilias 17. Hereditary Cancer Syndromes 18. Lymphoma 	41

	19. Myeloproliferative Neoplasm 20. Oncological Emergencies 21. Patient-centered Care: How to conduct serious illness discussions with patients and families in Oncology 22. Pediatric Solid Tumors 23. Principles of Pain Management in Cancer Patients	
5	Cardiovascular: 1. Acute Coronary Syndrome 2. STEMI 3. Pericardial Diseases 4. Heart Failure 5. Cardiomyopathies 6. ECG 7. Bradyarrhythmias 8. Tachyarrhythmias 9. Important Topics in Pediatric Cardiology 10. Important Topics in Cardiac Surgery	28
Total		155

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge and Understanding		
1.1	Acquire the essential knowledge & competency for evaluation, diagnosis and plan initial treatment for patients with cardiac, hematologic/oncologic, infectious, endocrine and rheumatic diseases.	Lectures, bedside teaching, small group discussions, student presentations, clinics	Continuous, formative and summative assessment
1.2	Assess clinical presentations and construct differential diagnosis for cardiovascular, hematologic, oncologic, disorders in adults and children.	Lectures, bedside teaching, small group discussions, student presentations, clinics	Continuous, formative and summative assessment
1.3	Learn the application of scientific clinical reasoning and evidence base to medical practice.	Lectures, small group discussions, student presentations, bedside teaching	Continuous, formative and summative assessment
1.4	Recognize and manage emergency cardiovascular, hematological and oncological, infectious, endocrine and rheumatic conditions encountered in adults and children.	Lectures, small group discussions, student presentations, bedside teaching	Continuous, formative and summative assessment
1.5	Acquire knowledge of preventive aspects of the common diseases and ways to implement them.	Lectures, small group discussions, student presentations, bedside teaching	Continuous, formative and summative assessment

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.6	Evaluate & analyze prognosis and clinical outcomes, and enhance clinical information management.	Lectures, small group discussions, student presentations, bedside teaching	Continuous, formative and summative assessment
2.0	Skills		
2.1	Take relevant history and interpret it.	Bedside teaching, clinics	Continuous, formative and summative assessment
2.2	Perform appropriate physical examination and interpret it.	Bedside teaching, clinics	Continuous, formative and summative assessment
2.3	Interpret investigations, and reach a diagnosis for cardiovascular, hematologic and oncologic disorders.	Lectures, small group discussions, student presentations, bedside teaching	Continuous, formative and summative assessment
2.4	Develop and implement a management and work-up plan.	Lectures, small group discussions, student presentations, bedside teaching	Continuous, formative and summative assessment
2.5	Carry out clinical procedures for cardiovascular, hematologic and oncologic disorders	Bedside teaching, small group discussions, student presentations, clinics	Continuous, formative and summative assessment
2.6	Promote patient engagement & communication.	Bedside teaching, clinics	Continuous, formative and summative assessment
2.7	Communicate effectively in a medical context with patients, relatives, colleagues and other health workers	Bedside teaching, clinics	Continuous, formative and summative assessment
2.8	Develop interpersonal competencies (communication and collaboration), cognitive skills (problem solving, critical thinking and reflectivity), work-related skills (planning and time management), and professionalism (integrity, sense of responsibility, respect and empathy).	Bedside teaching, small group discussions, student presentations, clinics	Continuous, formative and summative assessment
3.0	Values		
3.1	Respect and maintain privacy of the patients and their families.	Clinics, Bed side teaching	Continuous, formative and summative assessment
3.2	Adhere to the attendance policy.		Continuous assessment

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
3.3	Demonstrate interpersonal skills necessary to maintain professionalism, communicate appropriately with patients, their families, and other medical and paramedical personnel involved in patient care.	Bedside teaching, clinics	Continuous assessment

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Student presentation	1-9	5%
2	Bedside teaching and small group discussion	1-9	5%
3	OSCE	3,6,9	45%
4	Final Exam	9	45%

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice:

The CoM program established its own mentorship program that employs all full-time faculty as mentors. Through this program, every medical student in the program is assigned a mentor at the beginning of their first semester of studies. The program has a broad scope covering academic advising and counseling. The mentors handle all aspects related to academic advising, including academic planning, academic performance review, advice on course drop or withdrawal, study skills, and time management.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	<ul style="list-style-type: none"> Harrison principles of internal medicine (textbook) 20th edition (2018). Davidson's Principles and Practice of Medicine (23rd Edition 2018). ISBN: 9780702070273. Bates Guide to Physical Examination & History taking (12th edition, 2016). ISBN: 9781469893419.
Essential References Materials	
Electronic Materials	PowerPoint presentations uploaded on Alfaisal E-learning Portal Up to date
Other Learning Materials	

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classrooms, Conference rooms
Technology Resources (AV, data show, Smart Board, software, etc.)	AV (Audio-Visual), Smartboard, Moodle (E-learning Management)
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Course and Faculty Evaluation Survey	Students	Survey

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	
Reference No.	
Date	