



Course Specifications

Course Title:	Medicine
Course Code:	MED471
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 7/8, Year 4
4. Pre-requisites for this course (if any): Sem 5 and 6
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 (plus Student presentations)	40	22%
2	Clinics, On-calls, Case-write ups, Case presentations, Progress notes, Bed side teaching, Morning reports, Grand rounds, Student Presentations	145	78%

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	40
2	Laboratory/Studio	
3	Tutorial	145
4	Others (specify)	
	Total	185

B. Course Objectives and Learning Outcomes

1. Course Description

The objectives for students on the required Clerkship in Medicine is the development of an understanding of adult patient illnesses and the treatment of those illnesses. The emphasis of the clerkship is directed toward the integration of basic science with clinical skills. An important component of the student's approach to the patient is an awareness of the patient as an individual in an unfamiliar and stressful setting. Specific objectives that the students need to attain include skills in history taking, physical examination, written and oral case presentation, clinical judgment, and establishing priorities. Specific knowledge objectives regarding common medical illnesses, and medical ethics, are outlined for the students. Specific attitudinal objectives involving health care team integration, patient and paramedical rapport, and humanism are also provided to the students.

2. Course Main Objective

To develop basic clinical skills, clinical reasoning, communication skills, and knowledge in the field of internal medicine.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and Understanding:	
1.1	List the common presentations of pulmonary, cardiac, gastrointestinal, and renal diseases.	PLO7,16,20,30
1.2	Explain the pathophysiology of common pulmonary, cardiac, gastrointestinal, and renal diseases.	PLO2,16
1.3	List the diagnostic criteria of common pulmonary, cardiac, gastrointestinal, and renal diseases.	PLO7,16,17,21,22
1.4	Explain the principles for management of common pulmonary, cardiac, gastrointestinal, and renal diseases.	PLO7,12, 17, 23
1.5	List the possible complications of pulmonary, cardiac, gastrointestinal, and renal diseases	PLO7
1.6	Explain the effects and possible side effects of medications used in the treatment of common pulmonary, cardiac, gastrointestinal, and renal diseases	PLO6,4,30
2	Skills:	
2.1	Take proper history from patients and/or families, perform a proper physical examination, and generate a list of differential diagnoses.	PLO7,13,14,15,16,20
2.2	Interpret lab investigations and x-rays.	PLO5
2.3	Plan the management of common pulmonary, cardiac, gastrointestinal, and renal diseases.	PLO7,12,17,24
2.4	Reflect knowledge and skills on care provided to patients in outpatient and inpatient settings.	PLO14,15,18,19,25
2.5	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).	PLO24,27
3	Values:	
3.1	Respect and maintain privacy of the patients and their families.	PLO28
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.	PLO25,28

C. Course Content

No	List of Topics	Contact Hours
1	Cardiology Approach to: 1. Acute chest pain	41

	<ul style="list-style-type: none"> 2. Ischemic heart disease 3. Heart failure 4. Pericardial disease (acute/chronic pericarditis & tamponade) 5. Basics of ECG 6. DVT/PE 7. Diabetes mellitus & its complications 8. Hypertension & its complications 9. Pneumonia 10. Urosepsis 11. Endocarditis 	
2	<p>Renal Approach to:</p> <ul style="list-style-type: none"> 1. Hematuria/ Proteinuria/ Oliguria 2. Urinalysis 3. Urine microscopy 4. Acid-Base Disturbances 5. Polycystic kidney diseases 6. Sodium/ Potassium Homeostasis 7. Renal Failure (AKI/CRF/RRT) 8. Glomerular Disease 9. Tubulo-interstitial diseases 	39
3	<p>Respiratory Approach to:</p> <ul style="list-style-type: none"> 1. Dyspnea 2. Cough 3. Wheezing 4. Hemoptysis 5. Cyanosis 6. Pulmonary Hypertension 7. Asthma 8. COPD 9. Bronchiectasis & cystic fibrosis 10. Obstructive Sleep Apnea & OHS 11. Interstitial Lung Diseases 12. Pleural Effusion 13. Respiratory failure 14. Urticaria & Angioedema 15. Drug Hypersensitivity Reactions, Anaphylaxis & Types of Hypersensitivity Reactions 	45
4	<p>Gastroenterology Approach to:</p> <ul style="list-style-type: none"> 1. Abdominal Pain, 2. Nausea, 3. Vomiting, 4. Dysphagia, 5. Diarrhea, 6. Constipation , 7. Jaundice, 8. Gastrointestinal Bleeding, 9. Gastroesophageal Reflux Disease, 10. Common esophageal motility disorders, 	60

11. Helicobacter pylori / Peptic Ulcer Disease, 12. Acute/Chronic Pancreatitis, 13. Ascending Cholangitis & Primary Sclerosing Cholangitis, 14. Liver Function Tests, 15. Hemochromatosis 16. Wilson Disease, 17. Hepatitis A/B/C/D/E, 18. Liver Abscess/cysts, 19. Alcoholic Liver Disease, 20. Nonalcoholic Fatty Liver Disease, 21. Autoimmune Hepatitis, 22. Primary Biliary Cholangitis, 23. Cirrhosis & its complications , 24. Acute Liver Failure & DILI, 25. Celiac disease, 26. IBD, 27. IBS 28. C.difficile	
Total	185

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	List the common presentations of pulmonary, cardiac, gastrointestinal, and renal diseases.	Lectures, Student presentations, Case presentations, Clinics, On-calls, Case-write ups, Progress notes, Bed side teaching, Bed side examinations, Morning reports, Grand rounds	Continuous, formative and summative assessment
1.2	Explain the pathophysiology of common pulmonary, cardiac, gastrointestinal, and renal diseases.	Lectures, Student presentations	Summative assessment
1.3	List the diagnostic criteria of common pulmonary, cardiac, gastrointestinal, and renal diseases.	Lectures, Student presentations, Case presentations, Clinics, On-calls, Case-write ups	Continuous, formative and summative assessment
1.4	Explain the principles for management of common pulmonary, cardiac, gastrointestinal, and renal diseases.	Lectures, Student presentations, Case presentations, Clinics, Bed side teaching, Bed side examinations,	Continuous, formative and summative assessment

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
		Morning reports, Grand rounds	
1.5	List the possible complications of pulmonary, cardiac, gastrointestinal, and renal diseases	Lectures, Student presentations, Case presentations, Bed side examinations, Morning reports, Grand rounds	Continuous, formative and summative assessment
1.6	Explain the effects and possible side effects of medications used in the treatment of common pulmonary, cardiac, gastrointestinal, and renal diseases	Lectures, Student presentations, Morning reports, Grand rounds	Formative and summative assessment
2.0	Skills		
2.1	Take proper history from patients and/or families, perform a proper physical examination, and generate a list of differential diagnoses.	Lectures, Student presentations, Case presentations, Clinics, On-calls, Case-write ups, Progress notes, Bed side teaching, Bed side examinations	Continuous, formative and summative assessment
2.2	Interpret lab investigations and x-rays.	Lectures, Student presentations, Case presentations, Clinics, On-calls, Case-write ups, Progress notes, Bed side teaching, Bed side examinations	Continuous, formative and summative assessment
2.3	Plan the management of common pulmonary, cardiac, gastrointestinal, and renal diseases.	Lectures, Student presentations, Case presentations	Continuous, formative and summative assessment
2.4	Reflect knowledge and skills on care provided to patients in outpatient and inpatient settings.	Clinics, On-calls, Case-write ups, Progress notes, Bed side teaching, Bed side examinations	Continuous, formative and summative assessment
2.5	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).	Student presentations, Case presentations, Clinics, On-calls, Case-write ups, Progress notes, Bed side teaching, Bed side examinations	Continuous, formative and summative assessment
3.0	Values		

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
3.1	Respect and maintain privacy of the patients and their families.	Clinics, On-calls, Bed side teaching, Bed side examinations	Continuous, formative and summative assessment
3.2	Adhere to the attendance policy.		Continuous assessment
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.		Continuous assessment

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Student portfolio (case write-ups, clinics attendance, progress notes)	9	10%
2	On-calls	2-7	2%
3	Case presentation	-	4%
4	Student presentation	2-7	4%
5	Final Exam (including OSCE and BSE)	9	80%

*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	