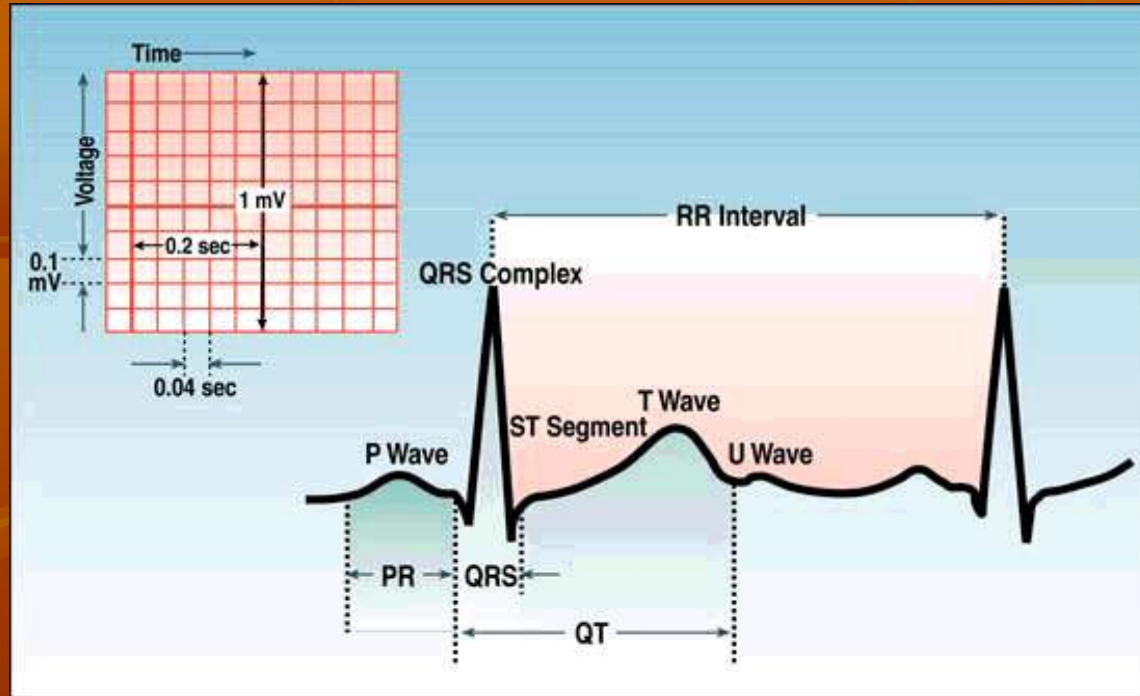


STUDY GUIDE
MEDICINE II
1201611



Course coordinatior

Female section: **Prof Shereen Mohamed Olama**

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Course Identification

1. Credit hours	12
2. Level/year at which this course is offered	6 th year
3. Pre-requisites for this course	Medicine I
Course Title:	INTERNAL MEDICINE-2
Course Code:	1201611
Program:	MEDICAL BACHELOR AND BACHELOR OF SURGERY (MBBS)
Department:	DEPARTMENT OF INTERNAL MEDICINE
College:	COLLEGE OF MEDICINE
Institution:	NORTHERN BORDER UNIVERSITY

Course committee members:

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Actual Learning Hours (480)

No	Activity	Learning Hours
Contact Hours		
1	Lecture	45
2	Tutorials	18
3	PBL	24
4	Slide interpretation	9
5	Case presentations	10
6	Skills lab	11
7	Others (specify) Bedside teaching (BST)	63
	Total	180
Other Learning Hours*		
1	Study	200

2	Assignments	00
3	Library	100
4	Projects/Research Essays/Theses	00
5	Others (specify)	00
	Total	300

Course Objectives

Course Learning Outcomes

1. Course Description

This course is intended to help the students to gain the basic skills in internal medicine so that by the end of this course the students will be able to list causes of common medical diseases related to different medical subspecialties, in various age groups, interpret the knowledge gained from different theoretical activities to the actual medical problems of adult patients in the hospital, show the ability to work in a group in the clinical setting to conduct specific clinical assessment task, demonstrate the ability of using communication skills in dealing with patients, their relatives and medical staff to solve the different medical problems and perform proper and comprehensive history and physical examination for most of the body systems especially cardiovascular, respiratory, gastrointestinal, neurological, urinary and endocrine systems. Along with these the interpretation of investigations and to chart out a management plan.

2. Course Main Objective

By the end of this course the student should achieve the following objectives:

- a. Show responsible and compassionate behavior with the patient and family considering the cultural, social and economic background, and in dealing with all levels of education and abilities.
- b. Master the required communication skills for appropriate history taking and medical examination.
- c. Appreciate the role of perfect understanding of basic sciences (anatomy, physiology, and biochemistry) and the underlying pathophysiological processes relevant to medical practice.
- d. Be acquainted with the epidemiological profile of the population and society, their heritage and cultural, social, geographic and economic characteristics, and relationship of all those to medical disease etiology and management.
- e. Have the basic knowledge and skills necessary to identify and manage the health problems of a patient: emergency situations, common endemic or epidemic diseases and disabilities.
- f. Interact effectively with the health team (and appreciate the role of others) in providing medical services.

CLOs		Aligned PLOs
1	Knowledge: By the end of this basic skills in internal medicine course the student will be able to:	
1.1	Identify the patterns, causes, pathogenesis, clinical presentations, investigations, treatment, and complications of common medical diseases related to different medical subspecialties, in various adult age groups based on the evidence medicine approach.	K2
2	Skills:	
2.1	Take history and perform physical examination, data interpretation and case discussion	S2
2.2	Propose management plans for medical cases	S3
2.3	Manipulate certain non-invasive diagnostic and lifesaving procedures	S4
3	Competence:	
3.1	Show the ability to work in a team with respect to	C1

	all medical staff opinions	
3.2	Operate the skill of self-learning	C2
3.3	Interpret the results of clinical, laboratory and radiological data to reach appropriate differential and provisional diagnoses and to put treatment plan for the final diagnosis	C3

Course Content

No	List of Topics	Contact Hours
A-	Lectures	45
1	Management of Heart Failure	1
2	Hypertension	1
3	MI	1
4	Bronchial asthma	1
5	Interpretation of ECG	2
6	Hypothyroidism	1
7	COPD	1
8	Arrhythmias	2
9	Occupational lung diseases	1
10	Bronchogenic Carcinoma	1
11	Management of pneumonia	1
12	Respiratory failure	1
13	Tuberculosis	1
14	Diabetes Mellitus	2
15	Metabolic disorders	1
16	Calcium metabolism	1
17	CLD & portal hypertension	2
18	Pituitary disorders	2
19	Diarrheal diseases	1

20	Malabsorption	1
21	Glomerulonephritis	2
22	Salmonellosis & brucellosis	1
23	Viral hemorrhagic fevers	1
24	HIV & AIDS	1
25	Chronic renal failure	1
26	Approach to patient with joint disease	1
27	Seronegative arthritis	1
28	Iron deficiency Anemia	1
29	Multiple myeloma	1
30	Connective T.D	2
31	Bleeding disorder	1
32	Cardiovascular system drug case scenario	2
33	Respiratory system drug case scenario	2
34	GIT drug case scenario	2
35	Endocrinology drug case scenario	1
B	Slide interpretation	9
36	Introduction to slide interpretations (general)	1
37	Hand, head and neck slide interpretations	1
38	Cardiovascular slide interpretations	1
39	Respiratory slide interpretations	1
40	Gastrointestinal slide interpretations	1
41	Rheumatological slide interpretations	1
42	Endocrine slide interpretations	1
43	Hematological slide interpretations	1
44	Infectious disease slide interpretations	1
C	Tutorials	18
46	Treatment of Hypertension	1
47	DVT & PE	1
48	Lung F Test	1
49	Pneumonia	1
50	Tuberculosis	1

51	Hyperthyroidism	1
52	GERD	1
53	Upper GI bleeding	1
54	IBS	1
55	Hepatitis	1
56	Septic Shock	1
57	ARF	1
58	Amebiasis	1
59	RA	1
60	Nephrotic syndrome	1
61	Obesity	1
62	Leukemia	1
63	Thalathemia	1
D	PBL	24
64	Angina	2
65	Aortic regurgitation	2
66	Chronic bronchitis / COPD	2
67	Hyperthyroidism	2
68	Cushing syndrome	2
69	Peptic ulcer disease	2
70	Hepatocellular carcinoma	2
71	Polycystic kidney	2
72	Visceral Leishmaniasis	2
73	Systemic Lupus Erythematosus	2
74	Sickle cell crisis	2
75	Hodgkin's lymphoma	2
E	Case Presentation	10
76	Heart failure	1
77	Approach to a patient with cardiac chest pain	1
78	Hepatosplenomegally	1
79	Approach to a patient with abdominal distension	1
80	Approach to a patient with diabetic ketoacidosis	1
81	Approach to a patient with fatigability	1

82	Brucellosis	1
83	Chronic Bronchitis	1
84	Acute gastroenteritis	1
85	Uncontrolled diabetes	1
F	Bedside teaching	63
86	Approach to History tacking	1
87	Physical examination	1
88	Approach to Comatose patient	1
89	Food poisoning	2
90	Approach to a patient with fever	2
91	Approach to a patient with Fatigue and lethargy	2
92	Approach to a patient with lymph nodes enlargement	1
93	Approach to a patient with shortness of breath	2
94	Approach to a patient with chest pain	2
95	Approach to a patient with cough	2
96	Approach to a patient with wheeze	2
97	Approach to a patient with hemoptysis	2
98	Approach to a patient with lower limb swelling	1
99	Approach to a patient with palpitation	2
100	Approach to a patient with cyanosis	2
101	Approach to a patient with abdominal pain	2
102	Approach to a patient with abdominal distention	2
103	Approach to a patient with red urine	2
104	Approach to a patient with jaundice	2
105	Approach to a patient with diarrhea	2
106	Approach to a patient with heart burn	2
107	Approach to a patient with hematemesis	2
108	Approach to a patient with polydipsia and or polyuria	2
109	Approach to a patient with joint pain	2
110	Approach to a patient with hypothyroidism	2
111	Lung fibrosis	1
112	Thyrotoxicosis	2
113	Brucellosis	2



114	Renal failure	2
115	Nephrotic syndrome	1
116	Uncontrolled hypertension	1
117	Pleural effusion	2
118	Anemias	2
119	Liver cirrhosis	2
120	Malabsorption	1
121	Pneumonia	2
G	Skills lab	11
122	General physical examination	1
123	Cardiovascular examination	2
124	Respiratory examination	2
125	GIT examination	1
126	Endocrine examination	1
127	Rheumatology examination	1
128	Abnormal heart sounds and murmurs	1
129	Normal and abnormal respiratory sounds	1
Tot		180



D. Teaching and Assessment Teaching strategies and Assessment Methods for Students

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

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge		
1.1	Identify the patterns, causes, pathogenesis, clinical presentations, investigations, treatment, and complications of common medical diseases related to different medical subspecialties, in various adult age groups based on the evidence medicine approach.	Direct Instructional (lectures) Interactive (Tutorials)	Written exam (MCQs)
2.0	Skills		
2.1	Take history and perform physical examination, data interpretation and case discussion	Experiential learning (Skill lab, BST)	OSCE Long and short cases clinical examination .case presentation check list
2.2	Propose management plans for medical cases	BST	Long and short cases clinical examination
2.3	Manipulate certain non-invasive diagnostic and lifesaving procedures	Experiential learning (Skill lab, BST)	clinical examination
3.0	Competence		
3.1	Show the ability to work in a team with respect to all medical staff opinions	Interactive (PBL)	PBL checklist
3.2	Operate the skill of self-learning	Interactive (PBL, CP, Tutorial)	PBL checklist CP checklist
3.3	Interpret the results of clinical, laboratory and radiological data to reach appropriate differential and provisional diagnoses and to put treatment plan.	Experiential learning (Skill lab, BST) Interactive (case presentation)	OSCE CP checklist PBL check list Clinical exam PBL check list Written exam

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quiz	6 th	10%
2	Problem based learning checklist	Weekly	5%
3	Case presentations checklist	Weekly	5%
4	OSCE	12 th	10%
5	MCQs	12 th	40%
6	Long case	12 th	20%
7	Short case	12 th	10%
8	Total		100%

Topics	Teaching strategies	Assessment methods	Knowledge			Skill		
			K1	K2	...	S1	S2	S3...
K2	lecture	Written exam		K2				
Hypertension	lecture	Written exam		K2				
MI	lecture	Written exam		K2				
Bronchial asthma	lecture	Written exam		K2				
Interpretation of ECG	lecture	Written exam		K2				
Hypothyroidim	lecture	Written exam		K2				
COPD	lecture	Written exam		K2				
Arrhythmias	lecture	Written exam		K2				
Occupational lung diseases	lecture	Written exam		K2				
Bronchogenic Carcinoma	lecture	Written exam		K2				
Management of pneumonia	lecture	Written exam		K2				



Topics	Teaching strategies	Assessment methods	Knowledge			Skill		
			K1	K2	...	S1	S2	S3...
Respiratory failure	lecture	Written exam		K2				
Tuberculosis	lecture	Written exam		K2				
Diabetes Mellitus	lecture	Written exam		K2				
Metabolic disorders	lecture	Written exam		K2				
Calcium metabolism	lecture	Written exam		K2				
CLD & portal hypertension	lecture	Written exam		K2				
Pituitary disorders	lecture	Written exam		K2				
Diarrheal diseases	lecture	Written exam		K2				
Malabsorption	lecture	Written exam		K2				



Topics	Teaching strategies	Assessment methods	Knowledge			Skill		
			K1	K2	...	S1	S2	S3...
Glomerulonephritis	lecture	Written exam		K2				
Salmonellosis & brucellosis	lecture	Written exam		K2				
Viral hemorrhagic fevers	lecture	Written exam		K2				
HIV & AIDS	lecture	Written exam		K2				
Chronic renal failure	lecture	Written exam		K2				
Approach to patient with joint disease	lecture	Written exam		K2				
Seronegative arthritis	lecture	Written exam		K2				
Iron deficiency Anemia	lecture	Written exam		K2				
Multiple myeloma	lecture	Written exam		K2				



Topics	Teaching strategies	Assessment methods	Knowledge			Skill		
			K1	K2	...	S1	S2	S3...
Connective T.D	lecture	Written exam		K2				
Bleeding disorder	lecture	Written exam		K2				
Cardiovascular system drug case scenario	lecture	Written exam		K2				
Respiratory system drug case scenario	lecture	Written exam		K2				
GIT drug case scenario	lecture	Written exam		K2				
Endocrinology drug case scenario	lecture	Written exam		K2				
Introduction to slide interpretations (general)	lecture/Slide interpretation	OSPE				S2		
Hand, head and neck	lecture/Slide interpretation	OSPE				S2		
Cardiovascular	Lecture/Slide interpretation	OSPE				S2		

Topics	Teaching strategies	Assessment methods	Knowledge			Skill		
			K1	K2	...	S1	S2	S3...
	n							
Respiratory	Lecture/Slide interpretation	OSPE				S2		
Gastrointestinal	Lecture/Slide interpretation	OSPE				S2		
Rheumatological	Lecture/Slide interpretation	OSPE				S2		
Endocrine	Lecture/Slide interpretation	OSPE				S2		
Hematological	/lecture/Slide interpretation	OSPE				S2		
Infectious disease	Lecture/Slide interpretation	OSPE				S2		
Treatment of Hypertension	Tutorial	Written exam		K2				





Topics	Teaching strategies	Assessment methods	Knowledge			Skill		
			K1	K2	...	S1	S2	S3...
DVT & PE	Tutorial	Written exam		K2				
Lung F Test	Tutorial	Written exam		K2				
Pneumonia	Tutorial	Written exam		K2				
Tuberculosis	Tutorial	Written exam		K2				
Hyperthyroidism	Tutorial	Written exam		K2				



Topics	Teaching strategies	Assessment methods	Knowledge			Skill		
			K1	K2	...	S1	S2	S3...
GERD	Tutorial	Written exam		K2				
Upper GI bleeding	Tutorial	Written exam		K2				
IBS	Tutorial	Written exam		K2				
Hepatitis	Tutorial	Written exam		K2				
Septic Shock	Tutorial	Written exam		K2				





Topics	Teaching strategies	Assessment methods	Knowledge			Skill		
			K1	K2	...	S1	S2	S3...
ARF	Tutorial	Written exam		K2				
Amebiasis	Tutorial	Written exam		K2				
RA	Tutorial	Written exam		K2				
Nephrotic syndrome	Tutorial	Written exam		K2				
Obesity	Tutorial	Written exam		K2				



Topics	Teaching strategies	Assessment methods	Knowledge			Skill		
			K1	K2	...	S1	S2	S3...
Leukemia	Tutorial	Written exam		K2				
Thalathemia	Tutorial	Written exam		K2				
Angina	PBL	PBL check list/written exam		K2				
Aortic regurgitation	PBL	PBL check list/written exam		K2				
Chronic bronchitis	PBL	PBL check list/written exam		K2				





Topics	Teaching strategies	Assessment methods	Knowledge			Skill		
			K1	K2	...	S1	S2	S3...
Hyperthyroidism	PBL	PBL check list/written exam		K2				
Cushing syndrome	PBL	PBL check list/written exam		K2				
Peptic ulcer disease	PBL	PBL check list/written exam		K2				
Hepatocellular carcinoma	PBL	PBL check list/written exam		K2				
Polycystic kidney	PBL	PBL check list/written exam		K2				





Topics	Teaching strategies	Assessment methods	Knowledge			Skill		
			K1	K2	...	S1	S2	S3...
Visceral Leishmaniasis	PBL	PBL check list/written exam		K2				
Systemic Lupus Erythematosus	PBL	PBL check list/written exam		K2				
Sickle cell crisis	PBL	PBL check list/written exam		K2				
Hodgkin's lymphoma	PBL	PBL check list/written exam		K2				





Topics	Teaching strategies	Assessment methods	Knowledge			Skill		
			K1	K2	...	S1	S2	S3...
	PBL checklists							
Case presentation	Case presentation	Case presentation check list					S2	
History taking/examination /discussion	BED Side teaching	Long cases/Clinical exams					S2	S3
Skill lab	Skill lab	short cases/Clinical exams					S2	S3



Course blueprint

Teaching and Assessment Blueprint

Course title Medicine II (Course code 1201611)

Learning Resources

Required Textbooks	<ol style="list-style-type: none"> 1. Haslett C. : Davidson Principles and Practice of Medicine. 23rd edition, Churchill Livingstone. 2. Kumar. PJ. : Clinical Medicine. 10th edition, WB Saunders. 3. Nicholas J. Tally: Clinical Examination.8th edition, Elsevier.
Essential References Materials	<ol style="list-style-type: none"> 1. Kasper DL <i>et al.</i> (Eds). Harrison's Principles of Internal Medicine.18th edition 2. Cecil's Textbook of Medicine: Expert Consult, 24th Edition L. Goldman; Elsevier
Electronic Materials	Web Sites: Medscape, Uptodate.
Other Learning Materials	FDA guidelines CDC guidelines NICE guidelines

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Class rooms Skill lab .
Technology Resources (AV, data show, Smart Board, software, etc.)	Audiovisual Data show
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	Skills laboratory with advanced Mannequins

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	Indirect assessment
Extent of achievement of course learning outcomes	Instructor Students	Direct assessment Indirect assessment
Quality of learning resources	Student	Indirect assessment

H. Specification Approval Date

Council / Committee	Medicine Department Committee
Reference No.	Frist departmental meeting academic year 1442-1443
Date	30.09.2021

Related check lists

PBL
Clinical skills checklist
Presentation checklist

Course quality evaluation

After the end of the course, please give your **FEEDBACK**