



STUDY GUIDE

Third year MBBS



DEPARTMENT OF MEDICINE
KING EDWARD MEDICAL UNIVERSITY
LAHORE

Preface

Medical Education for undergraduate students has gone under revolution since the turn of the last century. Since the Flexner's report, a number of medical educationists have proposed amendments in traditional curriculum. There is a paradigm shift towards learner friendly approach. Medical education needs to adapt to ongoing changes in healthcare system. Availability of online sources has made the information more reachable.

Due to the increasing demand by health care system and society at large, there is need to produce competent doctors who are proficient to deal with medical problems and have sound background knowledge. They should be thorough professional, self- directed learners and critical thinkers.

Pakistan Medical and Dental Council (PMDC) has provided framework for five years of undergraduate medical education. King Edward Medical University, Lahore. as an examining body has provided curriculum. Proposed module has been designed to accommodate the syllabus for final year MBBS students.

Purpose of this document is to provide guideline to both teachers and students that will help to maintain conducive learning environment. It will help to develop collaboration among students and facilitators.

Faculty of Medicine
Department of Medicine
King Edward Medical University/Mayo Hospital
Lahore

Learning objective

By the end of academic session, a third year MBBS student should be able to:

- Recall the common terminologies of medical problems.
- Comprehend approach to various clinical presentations.
- Document accurate history of the patient
- Perform basic clinical skills encompassing Cardiovascular, Respiratory, Gastroenterology and Central Nervous System.
- Understand the concept of informed consent.
- Demonstrate communication skills with patient and attendants

Teaching methodology: Interactive Lectures

Lectures are conducted by the four medical units. Each unit follows an assigned schedule with equal contribution.

Lectures: 43

Duration: 45 minutes each lecture

3RD YEAR MBBS MODULE

EAST MEDICAL WARD

LEC. #	TOPIC	MODULE/INTERMODULE	DATE	TIMING
01	<u>Symptoms of Neurological System</u> CASE SCENARIOS Headaches, Seizure	2 ND INTERMODULE	14/05/2022 (SATURDAY)	11.45 AM – 12:30 AM
02	CASE SCENARIOS Pneumonia	SPECIAL MICROBIOLOGY	25-03-2023 (Saturday)	8.45-9.30 AM
03	CASE SCENARIOS Infective endocarditis	SPECIAL MICROBIOLOGY	27-03-2023 (Monday)	9.30-10.15 AM

04	CASE SCENARIOS Tetanus	SPECIAL MICROBIOLOGY	01-04-2023 (MONDAY)	8.10-8.50 AM
05	CASE SCENARIOS Meningitis	SPECIAL MICROBIOLOGY	03-04-2023 (Tuesday)	8.10-8.50 AM
06	CASE SCENARIOS Tuberculosis	SPECIAL MICROBIOLOGY	04-04-2023 (Wednesday)	8.50-9.30 AM
07	CASE SCENARIOS Enteric Fever	SPECIAL MICROBIOLOGY	08-04-2023 (Tuesday)	10.10- 10.50 AM
08	CASE SCENARIOS Pyrexia of unknown origin	SPECIAL MICROBIOLOGY	10-04-2023 (Wednesday)	8.10-8.50 AM
09	CASE SCENARIOS Infective diarrhea	SPECIAL MICROBIOLOGY	26-04-2023 (Wednesday)	8.45-9.30 AM
10	CASE SCENARIOS Abscess (acute and chronic) and their management Liver Abscess	SPECIAL MICROBIOLOGY	29-04-2023 (Saturday)	8.45-9.30 AM
11	CASE SCENARIOS Acute Hepatitis: A and E infection	SPECIAL MICROBIOLOGY	05-05-2023 (Friday)	9.30-10.15 AM

MODULAR ORDER WITH DATES (TIME TABLE 3RD YR M.B.B.S)

WEST MEDICAL WARD

LECTURE	TOPICS	MODULE	DATE	TIME
01	History taking of Infectious diseases	GENERALIZED MODULE	24-01-23 (Tuesday)	8.45-9.30am
02	<u>Symptoms of Respiratory system</u> CASE SCENARIOS: Dyspnea, Cough + Hemoptysis, Pleural effusion, Pneumonia	1 ST INTERMODULE	03-02-23(FRIDAY)	8.45-9.30am

03	<u>Symptoms of CVS</u> CASE SCENARIOS: Chest pain (angina, MI).Cardiac failure, DVT + atherosclerosis	1 ST INTERMODULE	08-02-23 (WEDNESDAY)	9.30- 10.15am
04	<u>Symptoms of GIT</u> CASE SCENARIOS: Pain abdomen, Diarrhea (acute, chronic), Upper GI bleed	1 ST INTERMODULE	09-02-23 (THURSDAY)	8.00- 8.45am
05	Clinical aspects of inflammation (immune, infections, chemical). Clinical Differences between acute and chronic inflammation	INFLAMMATION	21-02-23 (Tuesday)	8.45- 9.30am
06	Clinical aspects of acute and chronic inflammation.	INFLAMMATION	24-02-23 (Friday)	9.30- 10.15am
07	An introduction to vasculitis.	INFLAMMATION	25-02-23 (Saturday)	11.45- 12.30am
08	Investigation and management of inflammatory case. <u>Symptoms of Neurological system</u> Coma	INFLAMMATION	01-03-23 (WEDNESDAY)	9.30- 10.15am
09	<u>Symptoms of Neurological system</u> Coma	2 ND INTERMODULE	04-03-23 (SATURDAY)	10:15- 11:00 am
10	<u>Symptoms of Neurological system</u> Upper motor neuron hemiplegia- paraplegia	2 ND INTERMODULE	08-03-2023 (Wednesday)	8.00- 8.45am
11	<u>Symptoms of Neurological system</u> Lower motor neuron paraplegia	2 ND INTERMODULE	11-03-2023 (Saturday)	9.30- 10.15am

MODULAR LECTURES (MEDICINE)TIME TABLE 3RD YEAR M.B.B.S)

SOUTH MEDICAL WARD

LECTURE NO	TOPIC	MODULE/ INTERMODULE	DATE	TIMINGS
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01	Clinical findings on cardiovascular examination	Hemodynamics	27-07-23 (Saturday)	08:00 AM -08.45 AM
02	Approach to Arthritis	Rheumatology	08-08-23 (Tuesday)	9:30 AM -10.15 AM
03	Female with joint pains and rash	Rheumatology	12-08-23 (Saturday)	11:00 AM - 11.45 AM
04	Seronegative Arthritis	Immunity	17-08-23 (Thursday)	08:45 AM -09.30 AM
05	Rheumatoid. Arthritis	Rheumatology	19-08-23 (Saturday)	08:00 AM -08.45 AM
06	Approach to Anemia	Hematology	25-08-23 (Friday)	9:30 AM -10.15 AM
07	Approach to Jaundice	GIT / Hematology	26-08-23 (Saturday)	08:45 AM - 09.30 AM
08	Approach to Lymphadenopathy	Hematology	26-08-23 (Saturday)	11;45 AM – 12;30 AM
09	Features of Thyroid dysfunction	Endocrinology	Awaited	Awaited
10	Features of Adrenal dysfunction	Endocrinology	Awaited	Awaited
11	Diagnosis of Diabetes mellitus and its complications	Endocrinology	Awaited	Awaited

MODULAR LECTURES (MEDICINE) WITH DATES (TIME TABLE 3RD YR M.B.B.S)

NORTH MEDICAL WARD

LECTURE Number	TOPIC	MODULE/INTERMODULE	DATE	TIMINGS
01	<u>CASE SCENARIOS</u> Chronic hepatitis: Hepatitis B and C infections	SPECIAL MICROBIOLOGY	09-05-2023 (Tuesday)	8.45 AM - 9.30 AM

02	<u>CASE SCENARIOS</u> HIV/AIDS	SPECIAL MICROBIOLOGY	10-05-2023 (Wednesday)	9.30 AM -10.15 AM
03	<u>CASE SCENARIOS</u> Sexually Transmitted Diseases (Syphilis, Gonorrhoea)	SPECIAL MICROBIOLOGY	12-05-2023 (Friday)	9.30 AM -10.15 AM
04	<u>CASE SCENARIOS</u> Nosocomial infection	SPECIAL MICROBIOLOGY	15-05-2023 (Monday)	8.45 AM - 9.30 AM
05	<u>CASE SCENARIOS</u> Malaria	SPECIAL MICROBIOLOGY	16-05-2023 (Tuesday)	8.45 AM - 9.30 AM
06	<u>CASE SCENARIOS</u> Toxoplasmosis	SPECIAL MICROBIOLOGY	20-05-2023 (Tuesday)	8.45 AM - 9.30 AM
07	<u>CASE SCENARIOS</u> Viral Hemorrhagic Fever (Clinical aspects of Ebola and Dengue virus)	SPECIAL MICROBIOLOGY	01-06-2023 (Thursday)	9.30 AM -10.15 AM
08	<u>CASE SCENARIOS</u> Poisoning/Overdose	3 RD INTERMODULE	08-06-2023 (Thursday)	9.30 AM -10.15 AM
09	<u>CASE SCENARIOS</u> Encephalitis	3 RD INTERMODULE	10-06-2023 (Saturday)	11.00 AM -11.45 AM
10	<u>CASE SCENARIOS</u> Overview of Pulmonary Edema	HEMODYNAMICS	22-07-2023 (Saturday)	11.00 AM -11.45 AM

THIRD YEAR MBBS CLINICAL ROTATION IN MEDICAL WARD

Learning Objectives

By the end of four weeks rotation in medical ward , a third year student should be able to:

- Document accurate history of the patient
- Perform basic clinical skills encompassing Cardiovascular, Respiratory, Gastroenterology and Central Nervous System.
- Understand the concept of informed consent.
- Demonstrate communication skills with patient and attendants.

Target Audience: Third Year MBBS

Students per batch: 20-22

Duration of Ward Stay: Four weeks

- Four days a week
- One and half hours per day

Learning Resources:

- Dedicated Class Room
- Audio-visual Aid
- Real patients

Modules:

1. Cardiovascular system
2. Respiratory system
3. Gastroenterology/Hepatology
4. Nervous system

Instructional Tools:

- Bedside teaching
- Small group discussion
- Observation
- Self-study

- Simulation

Format of Instructional Strategies

- At the start of the rotation, students would be provided an outline of the course along with schedule.
- Intended learning outcomes will be elaborated.
- Students would be allotted beds at the start of the rotation. They are expected to record detailed history and clinical findings. Students will record follow up of their patients on daily basis.
- Students will prepare a clinical case for discussion with faculty member. It will be an interactive session.
- Feedback on student's clinical history and clinical examination will be provided immediately after case discussion and observation of the performance.
- Reflection by the students will be encouraged. It will be followed by interactive discussion regarding differential diagnosis, diagnostic workup and treatment options.
- Formative and summative assessments will be carried out as per schedule and in alignment with intended learning outcomes.
- Educational strategies will be applied and assessment done on basis of cognition, psychomotor skills and affective domain as specified in table of specifications.
- Time tables will be planned in accordance with syllabus.
- Self study topics will be communicated.

Content	Knowledge	Skills	Attitude	Methods of Information Transfer	Assessment tools
History taking skills	C2	P2	A2	Bedside teaching Small group discussion	Short case /long case Simulated/ standardized patient
General physical Examination	C2	P1	A2	Bedside teaching Audiovisual aids	Short case
Clinical examination of Cardiovascular system	C2	P1	A2	Bedside teaching Audiovisual aids	Short case
Clinical examination of Respiratory system	C2	P1	A2	Bedside teaching Audiovisual aids	Short case
Clinical examination of Gastrointestinal system	C2	P1	A2	Bedside teaching Audiovisual aids	Short case
Clinical examination of Nervous system	C2	P1	A2	Bedside teaching Audiovisual aids	Short case
Approach to abdominal pain	C2	P1	A1	Bedside teaching Case based discussion	Long/Short case

Approach to vomiting	C2	P1	A1	Bedside teaching Case based discussion	Long/Short case
Approach to diarrhea	C2	P1	A1	Bedside teaching Case based discussion	Long/Short case
Approach to fever	C2	P1	A1	Bedside teaching Case based discussion	Long/Short case
Approach to jaundice	C2	P1	A1	Bedside teaching Case based discussion	Long case/short case
Approach to cough	C2	P1	A1	Bedside teaching Case based discussion	Long/Short case
Approach to shortness of breath	C2	P1	A1	Bedside teaching Case based discussion	Long/Short case
Approach to peripheral edema	C2	P1	A1	Bedside teaching Case based discussion	Long/Short case
Approach to chest pain	C2	P1	A1	Bedside teaching Case based discussion	Long/Short case
Approach to joint pain	C2	P1	A1	Bedside teaching	Long/Short case

				Case based discussion	
Approach to unconscious patient	C2	P1	A1	Bedside teaching Case based discussion	Long/Short case
Approach to seizures	C2	P1	A1	Bedside teaching Case based discussion	Long/Short case
Communication skills and Ethics	C3	P2	A2	Bedside teaching Audiovisual aids Role play	Long/short case Simulated patients

RECOMMENDED STUDY MATERIAL RESOURCES

BOOKS

- Davidson's Principles and Practice of Medicine
- Kumar and Clark's Clinical Medicine
- Macleod's Clinical Examination

ONLINE SOURCE

Medscape

Macleod's clinical examination videos

Contact Hours

Class	Total Lectures	Contact Hours
Final Year	121	$90.75+16.5=107.25$
Fourth Year	20	15
Third Year	43	32.25
Total	184	154.5

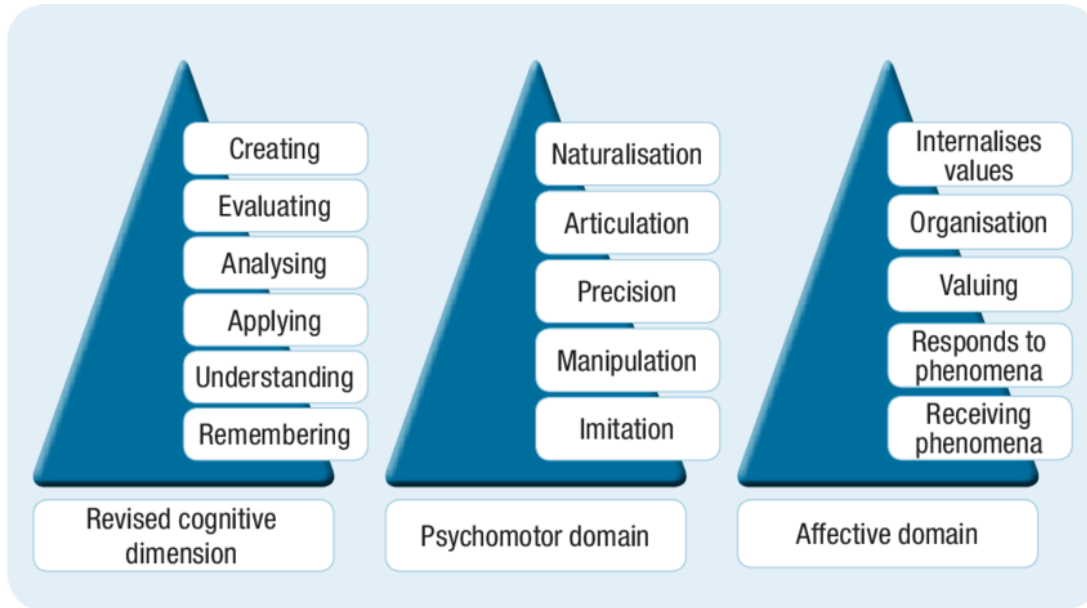
Ward Contact Hours

Class	Duration	Contact Hours
Final year	72 Days	$324+10^*=334$
Fourth Year	12 Days	54
Third Year	16 Days	$24+10^*=34$
Total	90	412

* self study hours

Annexures

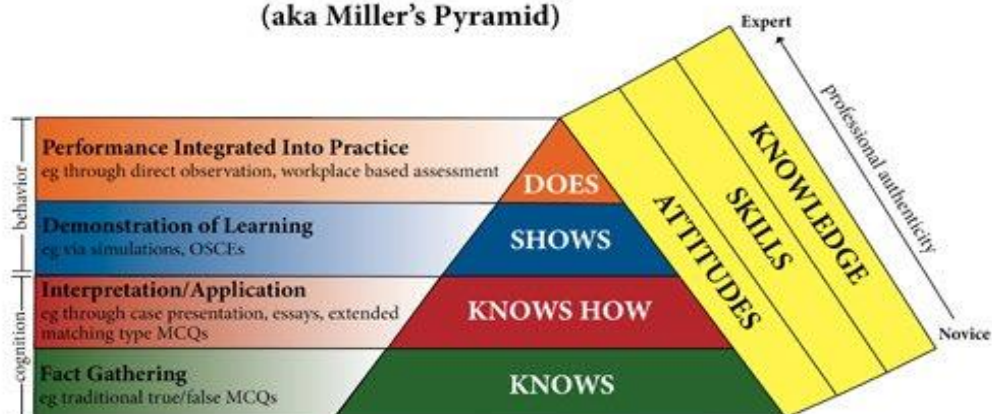
Taxonomy of Educational Objectives



Taxonomy for Psychomotor domain

- P1- Knows
- P2- Knows how
- P3- Shows
- P4- Does

Miller's Prism of Clinical Competence (aka Miller's Pyramid)



it is only in the "does" triangle that the doctor truly performs

***FEEDBACK AND SUGGESTIONS FROM STUDENTS AND TEACHERS WILL BE
APPRECIATED***