



SAHARA MEDICAL COLLEGE NAROWAL

STUDY GUIDE

DEPARTMENT OF GASTROENTEROLOGY



SAHARA MEDICAL COLLEGE NAROWAL

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INTRODUCTION:

Medical education is a life-long process and MBBS curriculum is a part of the continuum of education from pre-medical education, MBBS, proceeding to house job, and post-graduation. PM&DC outlines the guiding principles for undergraduate medical curriculum and has defined the generic competencies and desired outcomes for a medical graduate to provide optimal health care, leading to better health outcomes for patients and societies. These generic competencies set the standards of care for all physicians and form a part of the identity of a doctor. Each competency describes a core ability of a competent physician. This study guide will give an insight to the students about all these competencies and how to plan their educational activities in the subject of medicine for the three years period.

PURPOSE OF STUDY GUIDE:

- Communicates information on organization and management of the course.
This will help the student to contact the right person in case of any difficulty.
- Defines the objectives which are expected to be achieved at the end of the course.
- Identifies the learning strategies such as lectures, small group teachings, clinical skill, demonstration, tutorial and case based learning that will be implemented to achieve the module objectives.
- Provides a list of learning resources such as books, computer assisted learning programs, web-links, and journals, for students to consult in order to maximize their learning.
- Highlights information on the contribution of continuous and semester examinations on the student's overall performance.
- Includes information on the assessment methods that will be held to determine every student's achievements of objectives.
- Focuses on information pertaining to examination policy, rules and regulations.

TARGET OF AUDIENCE:

3RD, 4TH and 5th year MBBS students.

LEARNING OBJECTIVES (knowledge, skills, attitude)

1. To become problem solvers, dealing effectively with familiar and unfamiliar problems.
2. To be able to understand the pathogenesis of specific diseases.
3. To be able to take a thorough focused history and identify the patient's risk factors related to the disease process.
4. To be able to perform a physical examination on a patient, to diagnose specific diseases and rule out other diseases.
5. To formulate a provisional diagnosis with justification, and the likely differential diagnoses.
6. To be able to select appropriate hematological, biochemical and microbiological investigation and interpret their to confirm the diagnosis.
7. To be able to select specific radiological investigation for specific diseases.
8. To be able to apply evidence-based medicine concepts for the medical treatment of different diseases.
9. To be able to write prescription in appropriate format according to the disease.
10. To equip the students with specific knowledge, essential skills and appropriate attitude towards the human body.
11. To become lifelong learners.
12. To direct their own learning and evaluate this activity.
13. To be able to reason critically and make justifiable decisions regarding patient management.
14. To practice evidence-based medicine.
15. To always ensure patient safety.
16. To ensure compliance with the legal system as it impacts health care and the PM&DC regulations.
17. To adopt a multidisciplinary approach for health promoting interventions.
18. Medical graduates should be able to demonstrate professional values of self and professional accountability, honesty, probity, and ethics.
19. Medical and dental graduates are expected to demonstrate exemplary professional conduct.

TEACHING METHODOLOGIES FOR MEDICINE

- Interactive lectures
- Tutorials
- Case based learning (CBL)
- Essential skill to be learned in the skills lab
- Power point presentations by students
- Small group discussions
- Clinical ward rotation
- CPC'S- using modern audio-visual techniques, distance learning using electronic devices and current information technology facilities
- Journal club meetings
- Self-directed learning is the most vital part of this module to solve problematic cases, go through different learning resources and discuss with peers and the faculty to clarify difficult concepts

ATTENDANCE REQUIREMENT FOR MEDICINE AND ALLIED

- Students are expected to attend all scheduled teaching session and examinations.
- Attendance in lectures, tutorials, and wards is mandatory. Absence from this session will make the students ineligible to sit the final summative assessment.
- A minimum of 75% attendance in the lectures and wards is mandatory to appear in the summative UHS examination.
- Attendance will be recorded through a log-in/log-out biometrics system.
- Absence due to illness must be certified appropriately by the general physician.

DURATION OF SESSION (February 2022 To December 2022)

COURSE TO BE STUDIED (syllabus)

The course outline is as follows:

By the end of five years, medical students should be able to identify and discuss the common causes of common clinical presentations. Causes in detail can be discussed under various other headings.

GASTROENTEROLOGY
Oral Cavity Presentations:
o Aphthous Ulcers*6, Pigmentation (Addison`s), Gingivitis, Glossitis* (Candida, Plummer-Winson Syndrome, Vitamin B2 and folate deficiency).
Nausea/Vomiting
o Hepatitis**, Gastro-enteritis**, Bacterial food poisoning, Acidpeptic disease**
Indigestion/Flatulence
o Diet, Irritable Bowel Syndrome and Gastroparesis
Dysphagia**
o Of Solids: Carcinoma Esophagus (with cachexia)* and Achalasia*.
o Of Liquids: Psychogenic and Neuro-Muscular Disorders(Dementia, Bulbar Palsy and Scleroderma)
Heartburn and/or Epigastric pain
o Gastro Esophageal Reflux Disease**, Peptic ulcer and Gastritis**.
Diarrhea
o Acute Diarrhea due to Acute Gastro-enteritis: Viral**,
Shigellosis**, Salmonellosis**, Traveler`s diarrhea**
o Chronic Diarrhea: Amebiasis**, Giardiasis*, Malabsorptionsyndromes like Celiac Disease* and Tropical Sprue
o With Haematochezia Inflammatory bowel diseases: Ulcerativecolitis* and Crohn`s Disease*
o Irritable bowel syndrome*.
Constipation*.
o Irritable Bowel Syndrome, Diet and sedentary life style, Hypothyroidism, Carcinoma descending colon
Ascites**.
o Chronic Liver Disease**, Malignancy*, Abdominal tuberculosis**.
Jaundice**.
o Congenital hyperbilirubinemia (Gilbert Syndrome and DubinJohnson Syndrome)

o Wilson`s Disease
o Haemolytic: Malaria, Auto-immune, Hypersplenism
o Differentiate from Obstructive (Re-enforcement) *: Gall Stones, Carcinoma Pancreas, Cholangitis, Obstructive phase of Hepatitis
o Hepatic**: Viral** (acute and chronic), Toxic and Drugs).
Haematemesis and / or Melena**.
o Esophageal varices*, Mallory Weiss Syndrome, Carcinoma Stomach, Cirrhosis of Liver** and Bleeding peptic ulcer**.
Bleeding per rectum*.
o Bacillary dysentery, Inflammatory Bowel Disease, Hemorrhoids*, and Amoebic dysentery**.
Abdominal Pain
o Acid peptic Disease**, Irritable Bowel Syndrome*, Carcinoma stomach, Pancreatitis* and Porphyria
Abdominal Mass: Visceromegaly
o Liver: Hepatitis**, Liver abscess*, Hydatid Cyst, Congested Liver*, and Carcinoma (Primary and Secondary)
o Spleen: Portal Hypertension, Chronic Malaria, Chronic Myeloid Leukemia, and Myelofibrosis
o Splenomegaly with fever**: Malaria**, Typhoid**, Infective* endocarditis and Miliary tuberculosis*, Visceral Leishmaniasis,
o Kidney (see below)
o Abdominal Aneurysm
Altered Mentation: Hepatic Encephalopathy** and other causes of altered mentation.
o Drugs Contraindicated in Liver Diseases*.

Total Teaching Hours for Clinical Sciences (Medicine & Allied)

Subject	Teaching Hours
General Medicine	500 (33%)
Gastroenterology	50 (3%)

YEAR WISE BREAKUP OF TOTAL TEACHING HOURS

MBBS 5th Year

Subject	Contact HRS
Gastroenterology	50 (4%)

ASSESSMENT METHODOLOGY

- i. **Formative Assessments**
- ii. **Summative Assessments**

FORMATIVE

- **Theory**
 - Two class tests each month.
 - Two SEQs and 20 MCQs in each test from the course taught after the previous class test.
 - Send up examination after completion of the full course.
 - Pattern of the send up examination will be similar to summative UHS examination.

- **Clinical Ward Test :-**

Comprising of one long case (90 marks) and two short case (120marks) and one OSCE comprising of 13 Stations (65 marks) at the end of each ward rotation.

 - Post test discussion.
 - Test result sent to Principal Office.
 - Student attendance and test results checked and evaluated monthly.

INTERNAL ASSESSMENT TOTAL (50 Marks)

- **Theory Total (25 Marks)**
 1. Attendance Total (5 Marks)
 - (>90% = 5 Marks
 - 80 to 89% = 4 Marks
 - 75 to 79% =3 Marks
 - <75% = 0)

 2. Continuous Assessment Total (12 Marks)
(Average Score of All Class Test)

 3. Pre-professional
(Send Up – Examination Total (8 Marks))

Clinical (25 Marks)

1. Attendance Total (5 Marks)
2. History Books /log Books Total (5 Marks)
3. Ward Test (OSCE, Short Case, long Case) Total (15 Marks)

Summative UHS Examination (to be held at the end of 5th year MBBS)

Paper-I All except Paper-II

Paper-II will include: 1. Infectious Diseases 2. Endocrinology including Diabetes 3. Metabolic Diseases 4. Genitourinary System 5. Immunology 6. Genetics 7. Oncology 8. Water and Electrolyte Balance 9. Acid and Base Balance 10. Psychiatry 11. Dermatology

Summative Examination Details

Summative examination details are given on the following pages.

MBBS Final Professional Examination

Medicine

Mark Distribution

Sr. No.	Subject	Theory						Sub Total	Clinical	Oral and Practical	Int. Ass	Sub Total	Grand Total
		SEQs		MCQs		Int. Assessment							
1	Medicine -I	45 Marks	9 SEQs	5 Marks each	45 Marks	45 MCQs	1 Marks each	25	200	65	25	300	500
			2 hours			2 hours							
2	Medicine -II	45 Marks	9 SEQs	5 Marks each	45 Marks	40 MCQs	1 Marks each	25	200	65	25	300	500
			2 hours			2 hours							

**MBBS FINAL PROFESSIONAL EXAMINATION 2007
MEDICINE I**

Table of Specifications

SEQs

**Maximum Marks: 45
Time: 2 Hours
All questions carry equal marks
Attempt all questions**

Sr No: Topic	:No of SEQs
1 : Cardiovascular System	:02
2 : Pulmonary Medicine	:01
3 : Central Nervous System	:01
4 : Gastrointestinal System	:02
5 : Liver, Pancrease, Gallbladder	:01
6 : Blood	:01
7 : Rheumatology	:01

MCQs

**Total Mark 45
Time: 1 hour
Mark for each MCQ: 01
Type of MCQ: One best of five**

Sr No: Topic	:No of MCQs
1 : Cardiovascular System	:07
2 : Pulmonary Medicine	:07
3 : Central Nervous System	:07
4 : Gastrointestinal System	:07
5 : Liver, Pancrease, Gallbladder	:06
6 : Blood	:05
7 : Rheumatology	:06

MBBS FINAL PROFESSIONAL EXAMINATION 2007
MEDICINE-II

Table of Specifications

SEQs

Maximum marks: 45
Time: 2 hours
All questions carry equal marks.
Attempt all questions.

Sl. No.	Topic Specification	SEQs
1.	Endocrines	02
2.	Renal / Kidneys, Water, Acid Base / Electrolyte: Metabolism	02
3.	Infection / Tropical Diseases	02
4.	Neuro-Psychiatry	01
5.	Dermatology	01
	Total	09

MCQs

Total MCQs 40
Time: 60 minutes
Time for each MCQ: 1½ minutes
Marks for each MCQ: one
Type of MCQ: One Best of Five

Sl. No.	Topic Specification	MCQs
1.	Endocrines: a) Diabetes Mellitus. b) Thyroid. c) Adrenals. Misc. / others.	05 (Breakup of MCQs as follows) 01 01 01 02
2.	Renal / Kidneys; Water, Acid Base / Electrolyte; Metabolism	10
3.	Infection / Tropical Diseases	07
4.	Neuro-Psychiatry : a) Signs and Symptoms in Psychiatric patients. b) Patients presenting with fear and panic. c) Persistent complainer and somatization. d) The depressed patient. e) Patients brought with features of psychosis (odd, excited, aggressive). f) Conversion States. g) Mental Handicap. h) Confused and disoriented patients. i) Substance/abuse disorder. j) Obsessional states.	10 (Breakup of 10 MCQs) One MCQ from each Topic.
5.	Dermatology: a) Eczema. b) Papulosquamous Dermatoses. c) Drug Eruptions. d) Bullous Dermatoses. e) Bacterial Infections of Skin. f) Cutaneous Infestations. g) Sexually Transmitted Infections. h) Skin Manifestations of Systemic Disorder.	06 (06 MCQs from the topics given)
6.	Narration: Data / Photo.	02

LEARNING RESOURCES

Recommended books:

1. Davidson's principals and practices of medicine.
2. Kumar and Clark's clinical medicine.
3. Current medical diagnosis and methods
4. Hutchison's clinical methods
5. Online journals and reading materials through HEC digital library facility.
6. Current medical diagnosis & treatment of Gastroenterology.

Technologies to be used:

1. Textbook are the most important part of student learning for this subject.
2. Bed side learning with patients.
3. Hands-on activities and practical session to enhance the learning.
4. Skills lab will be used for simulated learning of the basic skills related to the gastrointestinal system.
5. Videos from different web portals to familiarize the students with the procedures and protocols.
6. Computer and internet resources are essential to gather the latest information about a specific disease.