VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT.

T.Y. M.B.B.S.

MEDICINE

(i) **GOAL** :

The broad goal of the teaching of undergraduate students in Medicine is to have the knowledge, skills and behavioral attributes to function effectively as the first contact physician.

(ii) **OBJECTIVES** :

(a) KNOWLEDGE :

At the end of the course, the student shall be able to :

(1) Diagnose common clinical disorders with special reference to infectious diseases, nutritional disorders, tropical and environmental diseases;
(2) Outline various modes of management including drug therapeutics especially dosage, side effects, toxicity, interactions, indications and contra-indications;
(3) Propose diagnostic and investigative procedures and ability to interpret them;
(4) Provide first level management of acute emergencies promptly and efficiently and decide the timing and level of referral, if required;
(5) Recognize geriatric disorders and their management.

(iii) **SKILLS** :

At the end of the course, the student shall be able to :

(1) develop clinical skills (history taking, clinical examination and other instruments of examination to diagnose various common medical disorders and emergencies;
(2) refer a patient to secondary and/or tertiary level of health care after having instituted primary care;
(3) perform simple routine investigations like hemogram, stool, urine, sputum and biological fluid examinations;
(4) assist the common bedside investigative procedures like pleural tap, lumber puncture, bone marrow aspiration/ biopsy and liver biopsy.

A course of systematic instruction in the principles and practice of medicine, including medical disease of infancy;

a. Lecture - demonstrations, seminars and conferences in clinical medicine during the 3 years shall run concurrently with other clinical subjects.;

b. Instructions in comprehensive medical care;
c. Instructions in applied anatomy and physiology and pathology throughout the period of clinical studies;
d. Instructions in dietetics, nutrition and principles of nursing Medical and in simple ward procedure e.g. should be imparted during clinical concurrently.

iv) **Attitude :**

a. The teaching and training in clinical medicine must aim at developing the attitude in students to apply the knowledge & skills he/she acquires for benefit and welfare of the patients.

b. It is necessary to develop in students a sense of responsibility towards holistic patient care & prognostic outcomes.

c. Students should develop behavioural skills and humanitarian approach while communicating with patients, as individuals, relatives, society at large & the co-professionals.

Curriculum for Theory Lecture series & Tutorials and LCD for General Medicine including Psychiatry, Tb. & Dermatology

TERM	DAY	TIME	LECTURES	TOPIC
4th	MON	8-9	20	Introduction to Medicine
5th	MON FRI	8-9 8-9	15 15	Infectious Diseases/Tropical diseases Cardiovascular System
6th	TUE THU MON TUE SAT	12-1 8-9 8-9 8-9 8-9	20 20 20 20 15	GIT, Liver, Pan. Chest + Miscellaneous TB Psychiatry Skin
7th	FRI THU FRI MON	8-9 12-1 2-4 2-3	15 15 30 20	Neurology Haematology/Haemato-oncology Tutorials Skin / STD
8th	TUE THU TUE WED	8-9 8-9 2-4 2-4	20 20 40 40	Endo + Misc + Genetics (3 Lectures.) Nephro. +Clinical Nutrition Tutorial Medicine, Skin, Tb, Psychiatry, Tutorial
9th	TUE MON	12-1 2-4	15 30	LCD Medicine (10) Skin 1 Psychiatry (1) Tb(1) LCD Medicine (7)

The above timetable is general outline to guide the planning of curriculum at college level. However, flexibility may be exercised to the extend that there may be minor re-scheduling of course contents day-wise or term-wise. It must be ascertained that the course contents are covered fully and total hours allotted for the subjects are effectively implemented.

Note :- These are suggested time tables. Adjustments where required, depending upon the availability of time and facility, be made.

SYLLABUS

(General Instruction: 1) **The Lectures** Stated below shall cover knowledge about applied aspects of basic & allied sciences, practical approaches in the management of patients in the outdoor & indoor settings as well as their management in the community. Special emphasis shall be placed on preventive aspects, National Health Programs & dietetics & nutrition.)

2) **During practical teaching & training in wards**, OPD & field works proper emphasis should be given to common health problems in addition to other diseases. Emphasis should be given to learning of tacit knowledge & skills in diagnosis & interpretation of finding & Lab. data.

INTRODUCTION TO MEDICINE :

4 TH SEMESER

Lect.01. : History of Medicine.

Lect.2/3. : Concept & objectives of history taking. Diagnosis, Provisional Diagnosis, Differential diagnosis.

Lect.04. : Symptomatology of Cardiovascular Diseases.

Lect.05. : Symptomatology of Respiratory diseases.

Lect.06. : Symptomatology in Nervous system.

Lect.07. : Symptomatology in Gastrointestinal and Hepatobiliary diseases.

Lect.08. : Approach towards a patient with Fever / Oedema.

Lect.09. : Approach towards a patient with anaemia / jaundice.

Lect.10. : Approach towards a patient with Lymphadenopathy.

Lect.11. : Investigations (Non- Invasive)
X-rays, USG
C.T. ./ M.R.I. Scan
Secretions examinations
Peripheral smear

Lect.12.: Investigations (Invasive)
Bone marrow
F.N.A.C.
Liver biopsy
Lymph node biopsy
Endoscopies
Lumber puncture.

Lect.13/14.: Review of common diseases in India.

Lect.15/16,: Revision.

Lect.17.: Examination.

Lect.18/20: Buffer.

INFECTIOUS DISEASES :

5 TH SEMESTER

Lect.01 : Introduction.

Infections – types, Modes of Infection transmission, Incubation period

Host defenses, Immunity & Immunization & Management

including Prevention

Lect.02 : Viral hepatitis.

Lect.3/4/5: Tetanus/ Diphtheria

Lect.6/7: Malaria

Lect.08: Rabies

Lect.09: Typhoid fever

Lect.10/11: Gastroenteritis

Lect.12: Plague / Dengue

Lect.13/14: (HIV) Infection & AIDs.

Lect.15.: Examination.

Note :- The course contents in above topics should also cover applied aspects in basic sciences like Anatomy, Physiology, Bio-Chemistry, Micro-Biology, Pharmacology, Pathology, FMT while giving training on Clinical features, investigations, Diagnosis, D/D treatment & prevention.

CARDIOVASCULAR SYSTEM

5 TH SEMESTER

Lect.01 : Introduction
- Functions / anatomy / physiology and its applications
- Various terminologies used

Lect.2/3: Methods of evaluation
- Non - invasive
- Invasive

Lect.04 : Arrhythmias
- Concept & Classification
- Presentation
- Diagnosis
- Pharmacotherapy in short

Lect.05: Cardiac arrest.

Lect.06: C.C.F.
- Types

Presentations
Pathophysiology
Management

Lect.07: C.H.D.
Aetiology and classification
CHD in adults & its importance

Lect.08: Rheumatic fever

Lect.09: Presentation and haemodynamics of various Valvular lesions including investigations, Diagnosis, D/D treatment & Prevention.

Lect.10: Infective endocarditis

Lect.11/12: C.A.D, (Coronary artery disease)
Lect.13: Pericardial diseases and cardiomyopathy

Lect.14: Hypertension

Lect.15: Examination.

GASTROENTEROLOGY, HEPATOBILIARY SYSTEM & PANCREAS :

6 TH SEMESTER

Lect.01: Introduction to GIT
Oral Cavity
Ulcers
Bleeding
Pigmentation
Oral manifestation of systemic diseases

Lect.2/3: Oesophagus
Inflammation, Dysphagia

Lect.4/5: Stomach
Peptic ulcers
Aetiopathogenesis
Clinical features
Investigations
D/D and management
Acute and Chronic gastritis

Lect.6/7. Small and large intestine diseases
Secretions & functions
MAS Mal –absorption-syndrome
Tuberculosis of Abdomen

Lect.08: Ulcerative colitis & Crohn's disease

Lect.09: Liver.
Introduction
LFT & their interpretation

Lect.10/11: Hepatitis - Acute & Chronic

Lect.12/13: Cirrhosis of liver
Lect.14: Gall bladder diseases
Lect. 15/16: Pancreas
Functions
Investigations
Acute and Chronic pancreatitis
Manifestation and D/D & treatment.

Lect.17/18: Misc. & Revision.

Lect.19: Examination.

RESPIRATORY SYSTEM

6 TH SEMESTER

Lect.01: Applied Anatomy and physiology of R.S.

Lect.02: P.F.T. (Pulmonary Function Testing)

Lect.03: Resp. Infection- Pneumonias.

Lect.04: Chronic bronchitis and emphysema

Lect.5/6: Bronchiectasis and lung abscess.

Lect.07: Bronchial asthma

Lect.08: Malignancies

Lect.09: Mediastinum and its disorders.

Lect.10: Pleural disease - Emphasis on pneumothorax

Lect.11: Pleural effusion.

Lect.12: Occupational lung disease. Its concept and short review

Lect.13: Revision - Fungal & Parasitic diseases

Lect. 14:Respiratory emergencies & Introduction to mechanical ventilators

Collagen Vascular Disorders

Lect.1: Allergy - Concept & hypersensitity, Autoimmunity

Lect.2: Collagen disease.

Lect.3: Rheumatoid arthritis

Lect.4: Sero negative arthritis

Lect.5: Revision HIV , Alcohol related disease

Lect.6: Examination

TUBERCULOSIS

6 TH SEMESTER

Lect.01: History and introduction

Lect.2/3: Pathogenesis and pathology

Lect.04: Role of host related factors

Lect.05: Microbiology of AFB

Lect.06: Clinical features of pulmonary tuberculosis and its investigations

Lect.07: Anti – Tubercular drugs
Pharmacology & Schedules of treatment.

Lect.8/9: Resistant tuberculosis
DOTS
Prophylaxis - Drugs /BCG/ Tuberculin test.
HIV & TB.

Lect.10: Extra - pulmonary tuberculosis
Plural effusion
Empyema
Others

Lect.11/12: Revision

Lect.13: Examination

NEUROLOGY

7 TH SEMESTERS

Lect.01: Introduction
Applied anatomy & physiology
History taking in neurology

Lect.02: Investigations

Lect.3/4: CVD (Cerebro Vasular Disease)
Types & its differential diagnosis
Predisposing factors
Diagnosis and management

Lect.05: S.O.L. (Space Occupying Lesions)

Lect.06: Encephalitis and meningitis

Lect.07: Epilepsy

Lect.08: Cerebellar syndrome

Lect.09: Parkinsonism

Lect.10: Paripheral neuropathy

Lect.11: Muscle disorders in brief

Lect.12/13: Spinal cord disorders

Lect.14: CSF
Formation and absorption
Status in various disorders

Lect.15: Examination.

HEMATOLOGY

7 TH SEMESTER

Lect.01: Introduction
Cell line of hemopoisis
Stimulating factors
Physiology and Anatomy of RBCs.

Lect.02: Anemias
Introduction
Classification
Symptoms & signs in general
Basic investigations & its interpretation

Lect.03: Microcytic hypochromic anaemias
Fe Kinetics
C/F, investigations of Fe deficiency.
Treatment of Fe deficiency.
D/D - Sideroblastic / thallasemic.

Lect. 04: Macrocytic anaemias
Kinetics of B-12 and Folic acid
C/F, investigations and management of B-12 / FA deficiency.

Lect.05: Anaemias (continued)
Brief of Chronic infections and inflammation Hemolytic anaemias

Lect.06: Hemoglobinopathies

Lect.07: Hypoplastic / Aplastic anemia
Definition
Classification
Diagnosis and management

Lect. 08 Introduction to WBCs.
Agranulocytosis - Aetiology & its significance Leukemias (AML, ALL, CML, CLL)

Lect.09: Management of leukemia

Lect.10: Lymphomas
Hodgkin's disease / NHL (Non-Hodgkin's lymphoma)

Lect.11: Approach to a patient with bleeding disorders
Recognition
Investigations

Physiology of Platelets
Therapy

Lect.12: Blood groups & Blood Tranfusion & Component Therapy

Lect.13-14: Revision

Lect. 15: Examination.

ENDOCRINOLOGY

8 TH SEMESTER

Lect. 01: Introduction - Hormones
Concept
Types
Action
Endocrine system
General
Control

Lect.2/3: Pituitary
Anatomy
Regulation
Disorders of Ant. Pituitary
Acromegaly
A.G. Syndrome
Disorders of Post. Pituitary
Hypopituitarism

Lect.4/5: Thyroid
Anatomy
Regulation
Goiter
Hypothyroid state & hyperthyroid state
Classifications
Management

Lect.6/7: Adrenal gland
Anatomy
Regulation
Addison's & Cushing syndrome
Recognition
Investigations
Management
Pheocromocytoma

Lect.08: Vit. D. Metabolism.
Ca. Metabolism and its relations to parathyroid
Diagnosis & management of related disorders.

Lect.9/10: Diabetes Mellitus

Lect.11: FSH < H. Oestrogens Progesterone's
Significance
Disorders
Its recognition and diagnosis
Management

Lect.12: Multiple endocrine-syndrome and paraneoplastic syndrome Overview.
Diabetes incipidus.

Miscellaneous

Lect.13/14 : Poisoning
Suicidal / Homicidal / Accidental
Chemical / Biological / Corrosives / Drugs
Concepts of management
Optimum
Barbiturate
DDT
Organophosphorus

Lect.15: Hyperpyrexia and Heat exhaustion
Aetiology
Pathophysiology
C / F. Types
Management
Preventive measures

Lect.16 : Electrical injury
Types
Manifestations
Management
Lightening

Lect.17: Shock
Types
Pathophysiology / Complications
Management

Lect.18/19: Revision

Lect.20: Examination

NEPHROLOGY, NUITRITION

8 TH SEMESTER

NEPHROLOGY :

Lect.01: Anatomy & Physiology of Urinary system

Lect.02: R.F.T. (Renal Function Tests)

Lect.03: Acute Glomerulonephropathy

Lect.04: Chronic Glomerulonephropathy

Lect.05: Infections of urinary system.

Lect.06: Nephrotic syndrome

Lect.07: Approach towards common problem

i. Proteinuria

ii. Hematuria

iii. Renal colics

Lect.08: Acute & Chronic renal failure

Lect.09: Dialysis - Diet - Drugs. In renal failure

Lect.10:Revision

Lect.11: Examination

Genetics (3 lectures)

Lect.1 : Introduction

Lect.2 : Common genetic disorders

Lect.3 : Application of Genetic Engineering in Medicine

NUTRITION :

Lect.11: Concepts of carbohydrate, proteins, fats, vitamins and minerals. Balanced diet.

Lect.12: Protein energy malnutrition.

Lect.13/14: Vitamin deficiency state
Scurvy / Beribery / Pellegra / Vit.A

Lect.15: Obesity / Asthenia
Diagnosis
Complications and management

Lect.16: Revision

Lect.17: Examination.

Recommended Books :

1. Hutchinson's Clinical Methods by Hunter and Bomford,
2. The Principles and practise of Medicine - Sir Stanley Davidson
3. Text book of Medical Treatment - Dunlop and Alstead.
4. Savill's system of Clinical Medicine - E. C. Warner.
5. Principles of internal Medicine - Harrison.
6. API Text Book of Medicine.
7. Reference Book (Clinical Medicine) : "Clinical Examination in Medicine": Author: Dr. A. P. Jain