

Higher Education And Scientific Research Ministry Of

MISAN UNIVERSITY

College Of Medicine



Syllabus of Medical

Curriculum

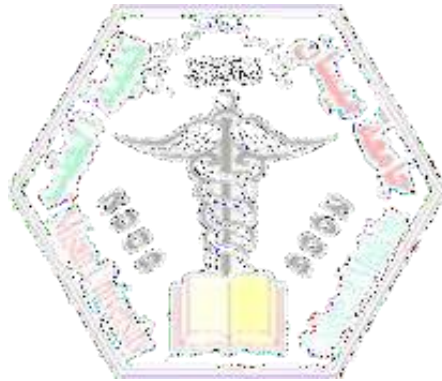
College Curriculum

2020-2021

Ministry Of Higher Education And Scientific Research

MISAN UNIVERSITY

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Syllabus of Medical College Curriculum

FIRST YEAR

Subject	Medical biology
Theory	60 hrs
Practical	60 hrs
Units	6
No	Title
1	A. Molecular Cell Biology
2	Introduction
3	From molecules to cells
4	Instrumentation with special reference to EM
5	Molecular organization of plasma membrane
6	membrane Functional aspects of plasma
7	Cellular differentiation
8	Cellular specialization
9	Cellular activities
10	division Nucleus & cell
11	Cell chemistry
12	Cell organelles
13	Molecular Biology for specialized cells
14	Cellular aging
15	living inclusions of cells-Non
16	Molecular genetics
17	Introduction
18	linked inheritance-Sex
19	B. Molecular structure of gene
20	Molecular structure of genetic code
21	Molecular basis of crossing over
22	DNA structure
23	Mutations
24	mechanisms Genetic control
25	engineering Genetic
26	Molecular basis of recombination
27	Preparation of recombinant DNA
28	Genetic cloning technique
29	Histology C. Preliminary
30	Connective tissues
31	Specialized connective tissues
32	Muscular tissue
33	Nervous tissue

Subject	Human Anatomy
Theory	90 hrs
Practical	60 hrs
Units	8
No	Title
1	Limb Upper .A
2	Introduction
3	Surface anatomy of the upper limb
4	Pectoral region
5	Axilla & Brachial plexus
6	Scapular region
7	The arm
8	Cubital fossa & The forearm
9	joints Joints: Introduction, Classification, individual
10	The hand
11	Applied anatomy
12	Limb Lower .B
13	Introduction to the lower limb, Bones
14	thigh Front of the
15	Lumbosacral plexus
16	Gluteal region
17	the thigh & popliteal fossa Posterior aspect of
18	Posterior aspect of the leg
19	Anterior aspect of the leg
20	Joints of the lower limb
21	The foot
22	Applied anatomy
23	C. Thorax
24	Thoracic wall as part of the body wall
25	Osteology of the chest wall
26	Intercostal spaces
27	Diaphragm
28	Chest wall & diaphragm during respiration
29	mediastinum Divisions of the
30	The superior mediastinum
31	Heart & pericardium
32	heart of the Chambers
33	Blood supply, nerves and plexuses of the heart
34	lungs and Pleurae
35	Posterior mediastinum

Subject	Medical Chemistry
Theory	90 hrs
Practical	90 shr
Units	9
No	Title
1	<p>A. Inorganic And Analytical Chemistry</p> <ol style="list-style-type: none"> 1. .isotopes radioactive of uses medical and Radioactivity 2. .importance their and systems living in Ions 3. .interests medical of salts and bases ‘Acids 4. .(SIU) units of system international The 5. .balance base-acid ‘concept pH The 6. .concentrations expressing of methods and Solutions 7. .importance physiological of systems buffer and Buffers 8. and dialysis ‘systems biological and chemistry Colloidal .systems living 9. .medicine in applications possible and Chelation
2	<p>B. BIOCHEMISTRY</p> <ol style="list-style-type: none"> 1. Carbohydrates <ol style="list-style-type: none"> a. .Introduction b. .carbohydrates of nomenclature and Classification c. .monosaccharaides of structure dimensional three The d. .monosaccharaides of structure cyclic The e. .monosaccharaides of reactions chemical and Physical f. .Disaccharides g. .Polysaccharides h. .carbohydrates of importance Biological i. .carbohydrates of absorption and Digestion 2. Lipids <ol style="list-style-type: none"> a. .Introduction b. .lipids of Importance c. .Classification d. .lipids of roles Biological e. .reactions and classification ‘acids Fatty f. .(fats natural) Triglycerides / Triacylglycerol g. .Phospholipids h. .Sphingolipids i. .cholesterol ‘Steroids j. .apolipoprotein ‘Lipoproteins k. lipids of absorption and Digestion
3	<p>ORGANIC CHEMISTRY</p> <p>isomerism optical) chirality ‘stereoisomerism ‘Isomerism .1 and geometrical</p> <p>of activity medical to relationship A .(isomerism</p> <p>.systems living and compounds organic</p>

	<p>2. .(steroids) system cyclic of Stereochemistry 3. to toxicity and oxidation) thiols and ethers ,phenols ,Alcohols .(human 4. .(ketons and aldehydes) compounds carbonyl of chemistry The 5. amides, ,urea) derivatives their of some and acids Carboxylic .(esters...etc 6. .compounds heterocyclic and Alkaloids 7. the on group functional of effect) antibiotics of chemistry The .(activity medical 8. .(drugs sulfa) compounds Sulfur</p>
4	<p>D. BIOCHEMISTRY 3. acids amino Proteins and a. .Introduction b. .acids amino of structure and Classification c. .acids amino of curye Titration d. acids amino Reaction of e. .peptides of activity Biological f. .ofbonds Types g. .bond peptide of properties Important h. and acids amino of determination ,polypeptides of Naming sequence .polypeptides of i. types different of formation and chain polypeptide of folding The of .protein j. .proteins of levels Structural k. .proteins fibrous and Globular l. .proteins of function Biological m. .protein digestion of 4. acids Nucleic a. Introduction b. Nucleotides Nucleosides and c. Classification d. synthesis protein in acid nucleic of Role 5. Enzymes a. .enzymes of nomenclature and classification ,Definition b. .enzymes properties of c. .reactions enzymatic affecting Factors d. .specificity Enzymes e. .action of mechanism and kinetics Enzymes f. .inhibition Enzymes g. .actionsenzyme Theories of</p>

Subject	Medical Physics
Theory	60 hrs
Practice	60 hrs
Units	6
No	Title
1	body the in and on Force & Measurement and Modeling Terminology
2	Cold in Medicine Physics of the Skeleton & Heat and
3	Energy ,Work, and Power of the Body & Pressure
4	Pressure
5	The Physics of the Lungs and Breathing
6	Physics of the Cardiovascular System
7	Electricity Within the Body
8	Cardiovascular Instrumentation
9	and Magnetism in the Medicine Application of Electricity
10	Sound in Medicine
11	Physics of the Ear and Hearing
12	Light in Medicine
13	Physics of Eyes and Vision
14	Laser in medicine
15	ray-Physics of diagnostic X
16	Physics of MRI and CT Scan
17	Medicine Physics of Nuclear
18	Physics of radiation therapy
19	Radiation protection in medicine

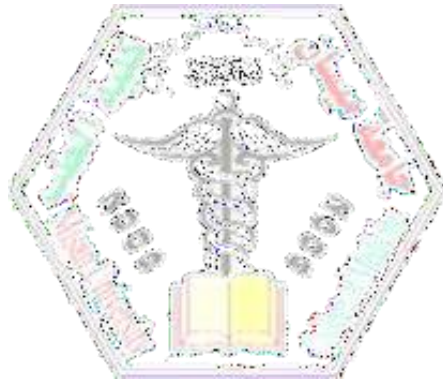
Subject	Medicine Foundations of
Theory	30 hrs
Practice	0
Units	2
No	Title
1	<p>Foundation hrs 15</p> <ol style="list-style-type: none"> 1. and Disease ‘Health of Concepts the to Course Introductory environment hours 2 2. CONCEPTS AND TERMS BASIC 3. HEALTH ECOLOGY OF 4. AND MEDICINE PREVENTIVE OF CONCEPT THE hours 2 REVENTION 5. DISEASE OF HISTORY NATURAL THE 6. heures 2 HEALTH AND ENVIRONMENT 7. INTERACTIONS AGENT-HOST 8. Epidemiology 9. hours AGENTS 2 INFECTIOUS ACQUIRING 10. Diseases Infectious Emerging hours 2
2	<p>terminology Medical hrs 15</p>

Subject	Computer Sciences
Theory	hrs 30
Practice	hrs 60
Units	4
No	Title
1	Computer Fundamentals
2	Microsoft Word
3	Microsoft Excel
4	PowerPoint

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SECOND

YEAR

Subject	Biochemistry
Theory	hrs 90
Practice	60 hrs
Units	8
No	Title
1	Vitamins
2	Diagnostic Enzymology
3	Introduction to intermediary metabolism
4	Carbohydrate Metabolism carbohydrates of Catabolism -a cycle Acid Citric -b c- shunt monophosphate Hexose d- Metabolism Fructose and Galactose Metabolism Disaccharides-e Glycogen Metabolism -f Gluconeogenesis-g Control mechanism-h
5	Biological Oxidation
6	Cell Membrane -a Definition
7	Obesity Nutrition and nutrition Definition of-a
8	Haemoglobin Definition -a
9	Free radicals
10	Nucleotide metabolism
11	Acid base disturbance
12	Immuno globulin
13	Amino Acid Metabolism
14	Protein metabolism
15	System Renal
16	Mineral Metabolism
17	Antioxidants
18	Hormones
19	Chemistry of Cancer
20	Xenobiotics
21	Lipid Metabolism
22	The Muscle
23	Integration of Metabolism & Regulation -
24	Tests Liver Functions

Subject	Human Anatomy
Theory	120 hrs
Practice	120 hrs
Units	12
No	Title
1	:Neuroanatomy introduction ANS ,CNS,PNS , tissue Nervous related terms - cells Neuroglial
2	skull , osteology - views of the skull
3	Meninges dural folds - sinusescranial venous
4	braindivisions of
5	cerebral hemispheres -external and internal structures
6	basal ganglia
7	ventricles of the brain
8	Brainstem Midbrain
9	Diencephalons
10	Pons
11	Cerebellum
12	blood supply of the brain
13	cerebrospinal fluid
14	spinal cord external and internal features
15	Tractology Of the spinal cord
16	pyramidal and extrapyramidal system
17	cranial nerves.
18	.vessels, nerves and associated structures ,muscles - , scalp
19	Head & Neck fossa temporal fossainfratemporal
20	Nec k - anatomy surface - fascia superficial
21	neck of thetriangles posterior triangle muscles, vessels nerves and associated structures -
22	triangle anterior associated and nerves vesses ,muscles - . structures Thyroid gland

23	main veins ,arteries and nerves of the neck . cervical plexuses
24	Face structures associated and vessels· nerves · muscles - mastication of muscles
25	parotid gland
26	submandibular region
27	oral cavity
28	nasal cavity paranasal sinuses
29	.muscles , associated structures -Larynx
30	Ear , and related structures
31	Abdomen wall abdominal anterior structures and associated muscles wall abdominal posterior muscles and associated structures
32	inguinal canal inguinal hernia spermatic cord
33	Peritoneum arrangement of abdominal viscera
34	gastrointestinal tract esophagus
35	Stomach
36	intestine small intestine large blood vessels , nerves , lymphatics and associated structures
37	liver and biliary system
38	Spleen
39	Pancreas
40	retroperitoneal structures kidney suprarenal gland
41	lumbar plexuses
42	:Pelvis Pelvic skeleton and bony pelvis
43	pelvic diaphragm contents of fascia visceral pelvic
44	pelvic viscera in male
45	pelvic viscera in female
46	Perineum Urogenital diaphragm Contents of male genital triangle Contents of urogenital diaphragm in male and female

47	triangle contents of anal anal canal
48	Ischiorectal fossa
49	Clinical notes
Subject	Embryology
Theory	30 hrs
Practice	0
Units	2
No	Title
1	Gametogenesis–Introduction .
2	Chromosomes during mitosis & meiosis .
3	maturation Morphological changes during gamete .
4	–Abnormal gamete –Spermiogenesis -Spermatogenesis . Ovulation
5	Fertilization . week st1
6	nd week development2
7	rd week development3 .
8	Differentiation of germ layers ,ectoderm .
9	their Differentiation of mesoderm ,paraxial mesoderm and . derivatives ,intermediate mesoderm & derivatives
10	Endoderm .
11	Formation of deciduas ,fetal membrane & development of placenta
12	Congenital malformation.
13	Skeletal system .
14	Muscular system
15	Body cavities & serous membranes
16	Cardiovascular system
17	Respiratory system
18	digestive System
19	Urogenital system.
20	Genital system.
21	neck & Head . .hrs2 Dr. Feras
22	Eye & ear.

Subject	Histology
Theory	60 hrs
Practice	60 hrs
Units	6
No	Title
1	Vascular system
2	Introduction
3	system Blood vascular
4	Capillaries
5	(Type of capillaries (continuous and fenestrated
6	arteries ,Large medium sized , arteries small , Arteriole) . Arteries (elastic arteries
7	(Atherosclerosis) . Age changes in arteries
8	(vein , large vein sized medium , vein small , Venule) . Veins –
9	Vasa vasorum
10	The skin and its appendages
11	Lymphatic system
12	Heamopoiesis
13	Digestive system
14	Respiratory system
15	Respiratory membrane
16	endocrine system The
17	The urinary system
18	(nephron The) . passages of the kidney excretory The
19	Female reproductive system
20	Mammary glands
21	system Male Reproductive
22	Special sense organs

Subject	Physiology
Theory	150 hrs
Practice	90 hrs
Units	13
No	Title
1	Introduction to physiology & general physiology Subject and significance Methods of physiological research
2	Physiology and other sciences
3	(Cell structure & function (Cellular organization
4	water functions, Homeostasis Body fluids ,body
5	Body fluids , composition , dynamics , & Edema & Body water .functions, Body fluid dynamics
6	‘Physiology of the muscles :Introduction type of the muscle Skeletal muscles ,structure , motor unit
7	‘contraction muscle ‘ muscle of response Mechanical‘ Excitability
8	Type of contraction ,muscle fatigue , Summation of muscle contraction
9	Simple muscle twitch ,Effect of two muscle stimuli , Effect of repeated stimulation
0	Clonus & Tetanus , All or none Law , Muscle tone
10	CNS Physiology of
11	‘ Physiology of the hypothalamus & limbic system
12	The brain stem and reticular formation
13	Wakefulness , sleep & loss of consciousness
14	Cerebral control function. motor & sensory functions
15	memory ‘ Conditioned reflexes , speech
16	Corticospinal tracts , EEG
17	Sensation: Introduction, & definition, the stimulus & adequate stimulus, sensory receptors. Classification of sensory receptors electrical and ionic events in receptors
18	representation cortical and ‘ field receptive the ‘ unit sensory The
19	of Coding of sensory information , the sensory pathways ,role ‘ contractions muscular proprioceptors in reflex and voluntary
20	inverse & ‘ organs tendon Golgi The‘ reflex (tendon) stretch The activity & muscles tone effect stretch , Gama efferent
21	‘Superficial .deep & visceral sensation ‘ touch pressure‘ sensation & vibration, cold ,warmth, pain sensations
22	point-temperature & set Normal ‘ Body temperature regulation
23	shivering thermo genesis -Heat production , shivering , & non
24	Heat loss , hypothalamic regulations of body temperature Fever & Hypothermia Special Senses : Hearing & Equilibrium , Functional anatomy of

	the ear ,properties of hearing system
25	Theories of hearing
26	Vestibular function
27	smell receptors & pathways –Smell & test
28	Physiology of olfaction
29	Physiology of the test , test receptor organs & pathways
30	
31	Vision : Functional anatomy of the eye
32	Blood composition & functions
33	hemoglobin variants & RBCs ,hemoglobin
34	Iron metabolisms & anemia
35	RBC destruction & hemolytic anemia
36	WBC morphology & classifications
37	Specific functions of different WBC
38	typing –The immune system & allergy & HLA
39	coagulations The platelets ,Homeostasis & blood
40	Blood group & blood transfusions
41	The plasma compositions & functions, the fibrinolytic activity of plasma
42	Functional anatomy of the kidney
43	regulation of renal blood flow-Auto
44	Mechanisms of glomerular filtration & GFR
45	absorption & secretion in the tubule-Re
46	Effect of excess intake , Effect of water loss
47	+absorption of N ⁺ , Regulation of K-Regulation of tubular re balance
48	Diuretics
49	Creatinine clearance , Urea clearance balance base -acid of regulation Renal & PH & Ion Hydrogen The
50	Renal function test
51	+H ,+H & ,PH of concept. base & acid of chemistry Fundamental Hasselbach equation -ion of body fluids & Henderson's
52	Generations & elimination of H ⁺ , Carbonic acids Body buffer distribution of body buffer system , system
53	abnormal sounds\Mechanisms of heart sounds ,
54	Introduction to CV physiology & anatomical review
55	The heart coronary circulation & conducting system Specialized tissue
56	Cardiac cycle
57	Ultra myocardium , structure , contraction ,action potential The role and Ionic .muscle to skeletal comparison structure with coupling contraction and ,excitation ,contraction muscle of bases
60	law (The mechanical properties of the cardiac muscle-Sterling

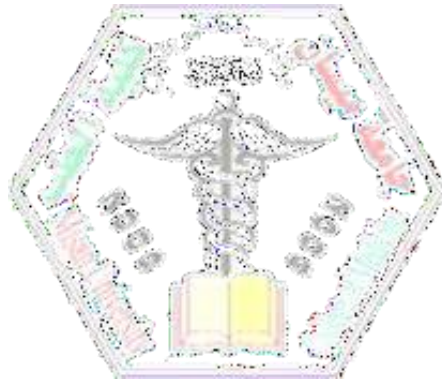
61	tension) relationship, types of -Starling law of the heart (length muscle contraction). The electrical activity of the heart. Action potential ,first response and slow response. The refractory
62	.pacemaker action potential periods. Pacemaker cells and wave P, QRS ,& T , axis ground , electrical-General back-ECG significance and their clinical
63	(syndrome Adam -Cardiac arrhythmias (blocks, Stock-ECG
64	Action potential , myocardium , & conduction system Cellular cardiac arrhythmias bases of
65	put, cardiac function curve methods of measuring-Cardiac out
66	put Factors regulating cardiac output-Cardiac out
67	Hypotension & shock Transient ,hypotension prolonged .physiological changes-hypotension and its patho
68	Hypertension Volume loading , mechanism Vasoconstrictor mechanism Secondary ,hypertension primary hypertension (essential)
69	Heart Failure
70	Cardiomyopathy
71	Ischemic heart disease
72	Exercise physiology
73	,hematocrit, Poiseuille's , Ohm's & , Circulation , blood volume laplace Laws Peripheral resistance, conductance, capacitance
74	.Compliance, laminar and turbulent flow, Reynolds numbers Local regulation of blood pressure ,auto regulation control extrinsic) Regulation of BP) intrinsic control) & neural control) short & long term control,
75	Systolic BP , Diastolic ,BP pulse pressure , Mean , Bp measurement of BP & Koratkov's sounds
76	The veins & there functions General venous pressure and its point, the filling pressure regulation. Venous pump, reference
77	Respiratory physiology functional anatomy
78	Lung volume & capacities & Pulmonary function test
79	Mechanics of breathing muscles of respiration , pressure changes during respiration
80	Airways resistance , Expansion of the lung , compliance
81	Pulmonary circulations , pressure & resistance of pulmonary blood vessels
82	Alveolar ventilation , distribution of ventilation & perfusions
83	Exchanges of gases & diffusion capacity
84	Transport of O ₂ ,& CO ₂ by blood
85	Control of ventilation
86	& nervous control, motility , FunctionsGeneral principles of GI blood circulation
87	Introduction to the gastrointestinal tract, GI hormones

88	Secretory functions of the elementary tract , salivary ,gas .tric , pancreatic secretions
89	‘ intestine small‘ Secretory function of the alimentary tract , bile large intestine secretions
90	Basic principles of GI , Ingestion , digestion & absorption
91	intestineintestine , large small ‘ stomach ‘ in GI tract Absorption
92	Bile salt synthesis & liver functions
93	Jaundice , liver function test
94	Physiology of ‘ GI disorders , swallowing disorders , DU ‘malabsorption
95	Constipation , Diarrhea , paralysis of defecation in spinal cord injuries
96	vomiting, gastrointestinal obstruction ‘ Nausea
96	The sliding filament theory , thermal and chemical changes during muscle contraction
97	‘pituitary The ‘Introduction ‘Physiology reproductive & Endocrine ‘hypothalamic hormones, adenohypophesis, neurohypophesis clinical correlate
98	clinical ‘ metabolism iodine‘ rate metabolic the ‘ thyroid The correlate
99	‘ bone physiology & ‘metabolism parathyroid , calcium The clinical correlate
100	The adrenal glands ,the cortex ,and the medulla
101	testes , the ovary The gonads ,the
102	The organs with endocrine functions. The pancreas
103	The gonads ,the testes , the ovary
104	Reproduction ,pregnancy ,& lactations
105	regulations Renal ‘ balance base – acid of regulation Respiratory base balance –of acid
106	base abnormalities -Acid
107	of Effect ‘ Physiology diving sea Deep ‘ Physiology altitude High the low O2 pressure on body , Effect of accelerated force on .body
108	Problems of temperature in aviation & space physiology
109	altitude and space weightlessness Radiation at the high
110	Echocardiography

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THIRD YEAR

Subject	Microbiology
Theory	90 hrs
Practice	60 hrs
Units	8
No	Title
1	Part I. General Microbiology
2	Introduction to the medical microbiology
3	Classification & Bacterial cell
4	.Growth requirements , bacterial growth & culture media
5	.Disinfections & Antimicrobial agents ‘ Sterilization
6	.Microbial Genetics
7	Pathogenesis of microbial infection
8	Normal flora
9	Review
0	Part II : Systemic Bacteriology
10	bacteria Gram positive
11	(Staphylococcus (cocci shape bacteria
12	.Pneumococci & .Streptococcus spp
13	.Corynebacterium & Listeria spp
14	(Clostridium spp. & Bacillus spp. bacteria (Spore forming
15	.Propionibacterium spp
16	Mycobacterium
17	Gram negative bacteria –B
18	.Neisseria spp
19	Hemophilus & Pasteurella
20	Brucella & Bordetella
21	Legionella pneumophila & Francisella
22	‘ Enterobacteriaceae family (E. coli , Klebsiella , Salmonella Proteus , Shigella , Acinetobacter , & other associated bacteria
23	.Pseudomonas spp
24	.Yersinia spp
25	Helicobacter pylori
26	Campylobacter & Vibrio

27	. (Treponema & Spirochete bacteria (Borelli , Spirillum
28	Part III. Intracellular parasitic bacteria
29 30	.Chlamydia spp
31	.Mycoplasma spp
32	.Rickettsia spp
33	.Urine, stool samples & Body fluids
34	Basic & Clinical immunology .Part IV
35	.Introduction to immune system
36	Antigen & antibody , Cellular basic of immune system
37	B cell development, generation of B cells, regulation of B cell . development, positive & negative selection of B cells
38	development, generation of T cells, positive selection of T T cell .cells and negative selection of T cells
39	Innate & Acquired immunity
40	The Complement system , cascades and regulation of complement function
41	. inflammation Immune system cells migration and
42	Hypersensitivity reactions
43	Immunological tolerance
44	Transplantation
45	Autoimmunity diseases
46	Tumor immunity
47	Vaccination
48	Immunotherapy
49	Infection and immunity
50	Part V. Medical Virology
51	Virology General –A
52	General properties & Classification of virus
53	Replication of virus and genetics
54	. Cultivation of viruses, effect of virus on host cells
55	.(infection viral slow and latent chronic acute) Pathogenesis Viral
56	viral infections: interferon, antiviral Prevention and treatment of .chemotherapy and viral vaccines
57	Systemic virology –B
60	Parvo virus
61	Adeno & Pox virus

62	familyHerpes virus
63	Orthomyxo virus family
64	Paromyxovirus family
65	Picorna virus
66	Viral hepatitis
67	Viral gastroenteritis
68	Arbovirus
69	Oncogenic virus
70	Retro virus (HIV) infection
71	Reo, corona virus, SARS
72	Part VI. : Medical Mycology
73	Introduction & general properties of fungi
74	Structures & Classification of fungi
75	Superficial mycosis
76	Cutaneous & Subcutaneous mycosis
77	fungiOpportunistic & Systemic

Subject	Parasitology
Theory	60 hrs.
Practice	60 hrs.
Units	6
No	Title
1	man of Entamoeba – 1 E. histolytica -a E. coli -b gingivalis .E -c E. hartmanni -d e- nana Endolimax f- butschlii lodamoeba
2	protozoa Flagellates – 2 ◊ Intestinal , oral & urogenital flagellates –A Dientamoeba fragilis , Trichomonas tenax , ◊ lamblia Giardia ◊ hominis Blastocystis and mesnili Chilomastix ◊ vaginalis .T . flagellates intestinal other : Blood & tissues flagellated –B complex Leishmania tropica trypanosome ◊ Mexicana .L ◊ braziliensis . L ◊ donovani .L ◊ gambiense .T ◊ rhodesiense cruzi .T
3	: Ciliate – 3 Balantidium coli
4	: Sporozoa – 4 a- P. ◊ malariae .P ◊ vivax Plasmodium : parasite Malaria . ovale .P ◊ falciparum b- and ◊ Sarcocystis ◊ Eimeria ◊ Pneumocystis ◊ Toxoplasma . Cryptosporidium
5	Part II : Medical helminthology
6	: <u>Cestodes – 1</u> General consideration
7	solium .Taenia saginata , T
8	Echinococcus & hydatid diseases
9	sparganosis & Diphylobothrium
10	Dipylidium caninum
11	Hymenolepis nana , H. diminuta

12	Multiceps multiceps
13	(flukes) Trematodes – 2
14	Fasciola hepatica & F. gigantica
15	sinensis & Opisthorchis felinus Clonorchis
16	flukes Intestinal and lung
17	Schistosoma haematobium S. mansoni S. japonicum
18	: <u>Part III</u>
19	3-: Nematodes General consideration a- lumbricoides Ascaris b- vermicularis Enterobius trichiuria Trichuris -c d- Trichostrongylus e- Strongyloides stercoralis duodenale Ancylostoma -f americanus Necator -g migrant larva visceral and Cutaneous -h spiralis Trichinella -i : The filariae -j 1 bancrofti Wuchereria – 2 malayia Brugia – 3 perstans Mansonella – 4 ozzardi .M – 5 volvulus Onchocerca - 6 loa loa – 7 medinensis Dracunculus –
20	Part IV : Medical Entomology

Subject	General surgery
Theory	30 hrs
Practice	0
Units	2
No	Title
1	a. Wound healing and repair
2	b. Metabolic response to trauma
3	(specific-Surgical infections (specific & non .c
4	d. Sterilization, disinfection & hospital infection
5	Fluids, electrolytes and acid base balance
6	a. Shock
7	b. Accidents and life support
8	Hemorrhage
9	Blood transfusion and complications
0	Nutrition Surgical
10	Fistula, sinuses and ulcer
11	Burn
12	Parasites of surgical importance
13	Principles of skin Repair
14	Ischemia
15	Gangrene
16	Ulcers of the Leg & Foot unilateral limb edema
17	Venous disorders of the limbs
18	. Lymphatic disorders
19	

Subject	Community medicine
Theory	30 hrs
Practice	30 hrs
Units	3
No	Title
1	Introduction to medical statistics
2	Summarization and presentation of data
3	Measurement of central location
4	variability Measurement of
5	Introduction to sampling
6	The normal distribution and its characteristics
7	The confidence interval and limit
8	:significance of Tests ▶ test the Z ▶ test the t ▶ the χ^2 test
9	statistics of application an as diagnosis community of concept The population health in measuring
10	Definition of relevant terms
11	and metabolism Nutrient requirements
12	infection Nutrition and
13	Nutrition of specific groups of population
14	Nutritional surveys and assessment of nutritional status of population
15	Nutritional diseases Selected
16	Diet therapy and nutritional rehabilitation

Subject	Pathology
Theory	120 hrs
Practice	90 hrs
Units	11
No	Title
1	<p>Introduction pathology of branches & Definition De Causes and etiology of diseases diseases of nature and Pathogenesis disease of changes Morphological complications Prognosis and</p>
2	<p>Adaptations and death cell injury Cell & stress to response cellular of Overview stimuli noxious .Cellular adaptations to stress Hypertrophy- Hyperplasia- Atrophy- Metaplasia - injury Causes of cell The morphology of cell and tissue injury Reversible injury- Necrosis- Patterns of tissue necrosis- injury to responses Subcellular- injury Mechanisms of cell necrosis Examples of irreversible cell injury and Coagulative necrosis- Caseous necrosis- Liquefactive necrosis- Fatty necrosis- Fibrinoid necrosis- Gangrenous necrosis - Apoptosis Intracellular accumulations Fatty change- and Exogenous) Pigmentation- (endogenous Pathological calcification-</p>
3	<p>Acute And Chronic Inflammation Inflammation Overview of</p>

	<ul style="list-style-type: none"> - Definition - Causes :Types Acute Inflammation- Vascular changes- & flow blood vascular in Change- caliber Increased vascular permeability- Leukocytes cellular events- recruitment Leukocyte- Margination and rolling- Adhesion and transmigrations- Chemotaxis- Leukocytes activation- Phagocytosis- Killing and degradation of microbes- Outcomes of Acute Inflammation- acute of patterns Morphological- Inflammation Serous Inflammation- Fibrinous Inflammation- Suppurative (purulent) Inflammation- Catarrhal inflammation- Ulceration- Gangrenous Inflammation- Pseudomembranous Inflammation- Chemical Mediators- mediators Cell derived- Plasma protein derived mediators- Chronic Inflammation- and cells inflammatory Chronic- mediators Granulomatous inflammation- chronic of pattern Morphological- inflammation Systemic effects of Inflammation
4	<p>Tissue Repair: Regeneration, Healing and Fibrosis</p> <ul style="list-style-type: none"> .Overview of tissue repair Regeneration- control of cell proliferation The- cycle cell The- Proliferative capacities of tissues- Growth factors- Extracellular matrix (ECM) and cellmatrix interactions- .Roles of extracellular matrix- Components of extracellular Matrix-

	<p>connective tissue Repair by- Angiogenesis- ECM and fibroblasts of Migration- deposition (Scar formation) Remodeling Tissue ECM and- Cutaneous wound healing Healing by first intention- Healing by second intention- Wound strength- of Repair Aspects Pathologic Healing Wound Affecting Factors Local Factors- Systemic Factors-</p>
5	<p>Microbial Infections infections microbial to Introduction mechanisms defense specific-Non Categories of infectious agents infections Routes of .disease can cause How microorganism infections Viral Introduction- cellular at injury viral of Mechanisms- .level Transient viral infection- infection Latent viral- Slow viral infection- infection H1N1 viral- Bacterial infections Pathogenesis of bacterial infections- infections Acute bacterial- Acute bacterial infections general types- Common pyogenic bacteria- Gangrene - types Definition and Chronic bacterial infections- tuberculosis Mycobacterium - Leprosy- Syphilis- Fungal infections-</p>
6	<p>Immunopathology :Introduction immunity adaptive & Innate system immune Cell & tissue of responses immune normal of Over review :Hypersensitivity diseases</p>

	<p>Types of Hypersensitivity diseases- HSR I Type- Type II HSR- HSR III Type- HSR IV Type- transplants Rejection of- immune disease-Auto- Immunodeficiency diseases- Primary Immunodeficiency- Secondary immunodeficiency- Amyloidosis-</p>
7	<p>Disturbances of blood flow and body fluid Introduction and types Edema congestion Hyperemia and Hemorrhage Shock shock Cardiogenic- Hypovolemic shock- Septic shock- Stages of shock - Hypoxia Ischemia- Infarction- homeostasis normal Review of Thrombosis Causes- Fate of thrombi - Embolism Pulmonary thromboembolism- Systemic thromboembolism- emboli Types of-</p>
8	<p>5 Medical Genetics Mutations (Mendelian disorders (Diseases caused by single gene defects gene disorders-Transmission patterns of single- disorders dominant Autosomal- disorders recessive Autosomal- linked disorders-X- inheritance multifactorial with Disorders disorders Cytogenetic Cytogenetic disorders involving autosomes- (Trisomy 21 (Down syndrome- sex involving disorders Cytogenetic- chromosomes Klinefelter syndrome- Turner syndrome-</p>

	<p>of patterns atypical with disorders gene Single inheritance syndrome -repeat mutation: Fragile X Triplet-mitochondrial of mutation by caused Diseases-genes and Willi-Prader :imprinting Genomic-syndromes Angelman anomalies Congenital diseases genetic of Diagnosis Florescence in situ hybridization-genetic diseases Molecular detection of- Indications for genetic analysis-</p>
9	<p>Neoplasia Definition Nomenclature Hamartoma Teratoma .Characteristics of benign and malignant neoplasms Atypia & dysplasia- Tumor grade and stage- Invasion & metastasis- metastasis & Mechanism of invasion- .Tumor angiogenesis- Kinetic of tumor cell growth- tumor -anti antigens Tumor immunity Tumor .mechanisms effector immunosurveillance. & Tumor- viral and radiation ·Chemical-Carcinogenesis. .cancer of basis Molecular .neoplasia The clinical effect of</p>
10	<p>Cardiovascular systemThe Blood Vessels - injury to response their and cells wall Vascular - dysfunction and Function :cells Endothelial - cells muscle smooth Vascular - vascular to response A thickening Intimal injury intimal - Atherosclerosis - disease vascular Hypertensive - hypertension of Pathogenesis - hypertension essential of Mechanisms - hypertension in pathology Vascular - Aneurysms - aneurysm aortic Abdominal - dissection Aortic - Vasculitis - .arteritis (cell(Temporal Giant</p>

	<ul style="list-style-type: none"> - Buerger)obliterance Thromboangiitis (Disease) Tumors- <ul style="list-style-type: none"> - tumors Benign Hemangioma- Lymphangioma- - tumors (Borderline) Intermediate Kaposi sarcoma- - tumors Malignant Angiosarcoma- The Heart <ul style="list-style-type: none"> - failure heart Congestive - diseases heart Ischemic - pectoris Angina - infarction Myocardial - heart disease ischemicChronic - death cardiac Sudden diseases heart Valvular- <ul style="list-style-type: none"> - disease heart and fever Rheumatic - Endocarditis Infective - diseases myocardial Primary - Myocarditis - disease heart Congenital - shunts right-to-Left defects Atrial septal- defects Ventricular septal- arteriosus Patent ductus- - shunts left-to-Right Tetralogy of Fallot- Transposition of great arteries- - diseases Pericardial - Pericarditis - effusions Pericardial - tumors Cardiac
11	<p>Respiratory system tract Upper respiratory</p> <p>Nose- & conditions inflammatory- sinuses Nasal- .tumors</p> <p>conditions inflammatoryNasopharynx- .Tumors- Angiofibroma- Nasopharyngeal carcinoma- .Larynx- 'Benign tumors-</p>

Singer's nodule-
 Polyp-
 Squamous papilloma-
 Malignant tumors-
 carcinoma cell Squamous-
 tract Lower respiratory
 - (collapse) Atelectasis
 - injury Lung Acute
 - Disease Pulmonary Obstructive
 .Bronchial asthma-
 .Chronic bronchitis-
 Bronchiectasis-
 Emphysema-
 Centrilobular emphysema-
 Panacinar emphysema-
 Pathogenesis-
 Restrictive defect-
 disorders Chest wall-
 Interstitial lung diseases-
 Acute respiratory distress syndrome-
 Chronic restrictive lung diseases-
 Pneumoconiosis-
 Interstitial fibrosis of unknown etiology-
 infiltrative lesions-
 Pneumonia-
 Bronchopneumonia-
 Lobar pneumonia-
 .Pulmonary hypertension-
 Causes-
 Pathological changes-
 .Pneumoconiosis-
 Classification-
 Pathological changes-
 Complications-
 Tumors-
 .Bronchial carcinoid-
 Typical-
 Atypical-
 .carcinoma cell neuroendocrine Small-
 - arcinoma cell neuroendocrine cell large
 .Bronchial carcinoma-
 Squamous cell carcinoma-
 Adenocarcinoma-
 carcinoma cell Small-
 cell carcinoma Large-
 .Pleura-

	<p>Tumors- Mesothelioma- Benign- Malignant- .Secondary tumor-</p>
12	<p>system The Hematopoietic Disorders Red cell - Hemorrhage :of blood loss Anemia - Anemia Hemolytic Hereditary spherocytosis- anemia Sickle cell- - Thalassemia G6PD deficiency- Paroxysmal nocturnal hemoglobinuria- Immuno-hemolytic anemia- .Hemolytic anemia from mechanical trauma- diminished erythropoiesis Anemia of- Polycythemia - Disorders White cell - cells white of disorders neoplastic-Non - cells white of proliferation Neoplastic - Leukaemias disorders Myeloproliferative- cell disorders Plasma Multiple myeloma - Bleeding disorders thrombocytopenic purpura Ideopathic- Hemophilia- Willbrand disease-Von-</p>
13	<p>Lymphoreticular system Reactive lymphadenopathy - lymphadenitis specific-non Acute - lymphadenitis specific-non Chronic - lymphadenitis Granulomatous - diseases neoplastic-non Miscellaneous lymphadenopathy Neoplastic Hodgkin's lymphoma- - lymphoma Hodgkin's-Non cell lymphoma-grade B-Low- cell lymphoma -grade T-Low- cell lymphoma -grade B -High- lymphoma cell -T grade High- lymphadenopathy Metastatic spleen Disorders of Hypersplenism- Spleno-megaly-</p>

	<p>Disorders of the Thymus</p> <ul style="list-style-type: none"> - Hyperplasia Thymic - Thymoma
14	<p>Oral cavity and the Gastrointestinal Tract</p> <p>Oral cavity</p> <p>Ulcerative and inflammatory lesions-</p> <p>Apthous ulcer-</p> <p>infection Herpes virus-</p> <p>Oral candidiasis-</p> <p>sarcoma and Kaposi Aids-</p> <p>Esophagus</p> <ul style="list-style-type: none"> - disorders motor and Anatomic <p>Achalasia-</p> <ul style="list-style-type: none"> - hernia Hiatal - Varices - (types and causes) Esophagitis - esophagus Barrett's - .carcinoma Esophageal <p>Stomach</p> <p>Gastritis-</p> <p>Acute gastritis-</p> <p>Chronic gastritis-</p> <p>Gastric ulceration-</p> <p>gastric ulceration Acute-</p> <ul style="list-style-type: none"> - ulcers peptic <p>Gastric tumors-</p> <ul style="list-style-type: none"> - polyps Gastric - Carcinoma Gastric - pathogenesis and Etiology <p>intestine and large Small</p> <ul style="list-style-type: none"> - disease bowel Inflammatory <p>disease Crohn's-</p> <p>colitis Ulcerative-</p> <ul style="list-style-type: none"> - intestines large and small of Tumors <p>polyps neoplastic -Non-</p> <p>Adenomas-</p> <p>syndromes Familial polyposis-</p> <p>Colorectal carcinoma-</p> <p>intestine small Neoplasms of-</p> <p>intestinal tract-Other tumors of gastro-</p> <p>intestinal -Gastro</p> <p>lymphoma and Carcinoid</p> <p>Appendix</p> <p>Appendicitis-</p> <p>Appendicular tumors-</p>
15	<p>pancreas Liver, Gall bladder and</p>

	<p>Liver Micro architecture of liver- Liver cell reaction to injury- Hepatitis- Viral- Alcoholic- Liver cirrhosis- Tumors - Gall bladder Cholelithiasis- stones Pure- stone Mixed- Acute cholecystitis- Chronic cholecystitis- Tumors- Pancreas Acute pancreatitis- Chronic pancreatitis- Tumors- Tumors of exocrine pancreas- Tumors of endocrine pancreas-</p>
16	<p>Kidney and Urinary Tract System Clinical manifestations of renal diseases Glomerular diseases diseases Pathogenesis of glomerular- - complexes Immune Circulating - complexes situ-In - glomerulonephritis immune mediated-Cell - injury immune Mediators of - injury glomerular of mechanisms Other The nephrotic syndrome- - (nephrosis lipoid) disease change Minimal - glomerulosclerosis segmental and Focal - Membranous)nephropathy Membranous (glomerulonephritis - glomerulonephritis Membranoproliferative The nephritic syndrome- (Acute post infections (post streptococcal- Glomerulonephritis- (IgA nephropathy (Berger disease- - snephriti Hereditary -) Rapidly progressive Crescentic)glomerulonephritis Chronic glomerulonephritis- Diseases affecting tubules and interstitium Tubulointerstitial nephritis-</p>

	<p>Acute pyelonephritis- Chronic pyelonephritis and reflux nephropathy- induced interstitial nephritis Drug- tubular necrosis Acute- vessels blood involving Diseases Benign nephrosclerosis- malignant and hypertension Malignant- nephrosclerosis microangiopathies Thrombotic- Cystic diseases of the kidney Simple cysts- kidney polycystic (adult) antdomin Autosomal- diseases polycystic (childhood) recessive Autosomal- diseases kidney Medullary cystic diseases - obstruction Urinary outflow Renal stones- Hydronephrosis - Tumors Renal cell carcinoma- Wilm's tumor- and calyces Tumors of the renal pelvis-</p> <p>Diseases of urinary tract Ureter- Obstruction- Tumors - Urinary bladder- Acute cystitis- Chronic cystitis- Special forms of cystitis- Tumors- Urethra- Inflammation- Tumors-</p>
17	<p>The female genital system Vulva Vulvitis - Contact dermatitis- .neoplastic epithelial disorders-Non- Lichen sclerosus- Lichen simplex- Tumors- Vulvar grade low and Condylomas- .Neoplasia Intraepithelial</p>

Neoplasia Intraepithelial Vulvar grade High-
 carcinoma and
 .of vulva
 Vagina
 Vaginitis-
 and neoplasia Epithelial -Intra Vaginal-
 cell squamous
 carcinoma
 Sarcoma Botryoides -
 Cervix
 Cervicitis -
 cervix Tumors of the-
 and Neoplasia Intraepithelial Cervical-
 cell squamous
 .carcinoma
 Endocervical polyp. -
 Body of uterus
 - Endometritis
 - Adenomyosis
 - Endometriosis
 - hyperplasia Endometrial
 - myometrium and Endometrium of Tumors
 - polyp Endometrial
 - Leiomyoma
 carcinoma Endometrial-
 Ovaries
 - cysts neoplastic -Non
 cyst luteal and Follicular-
 Polycystic ovaries-
 .Chocolate cyst-
 - ovary Tumor of the
 - tumors stromal epithelial Surface
 Serous tumors-
 Mucinous tumors-
 Endometrioid tumors-
 Brenner tumors-
 Germ cell tumors-
 Teratomas-
 teratoma cystic (mature) Benign-
 Immature malignant teratoma-
 Specialized teratoma-
 Dysgerminoma-
 Choriocarcinoma-
 Yolk sac tumor-
 tumors stromal Sex cord-
 tumor Granulosa cell-

	<p>fibroma -Thecoma- Leydig cell tumors -Sertoli- - Metastatic .Krukenberg's tumor- (Diseases of placenta (pregnancy - pregnancy Ectopic - disease trophoblastic Gestational complete and partial 'Hydatidiform mole- Invasive Mole- Choriocarcinoma-</p>
18	<p>Breast Normal breast :lesions Benign breast Infections Acute pyogenic infections- Tuberculosis- lesions inflammatory Non infective - ductectasia Mammary - mastitis Granulomatous - necrosis Traumatic fat - body foreign to Reaction - Galactocele breast the of disease Fibrocystic :breast the of tumors Benign Fibroadenoma- Adenoma- Papilloma - carcinoma Breast Risk factors- Classification- In situ carcinoma : ductal, lobular- Invasive carcinoma- (carcinoma(classical & subtypes Ductal- Tubular carcinoma- Prognosis of breast carcinoma- Phyllodes : breast the of tumors Miscellaneous lymphoma 'tumor breast male Tumors of</p>
19	<p>System Male genital Testicular neoplasms Germ cell tumor- - Variants - Seminoma - seminomatous Non Teratomas- Embryonal carcinoma- Yolk sac tumor-</p>

	<p>Choriocarcinoma- - tumor germ cell Mixed - tumor stromal Sex cord - tumor cell Leydig-Sertoli Mixed testicular tumor- - lymphoma Testicular Prostate Prostatic Hyperplasia- carcinoma Prostatic-</p>
20	<p>Bones, Joints, and skeletal muscles bone Diseases of Infections of bone- Pyogenic osteomyelitis- Tuberculous osteomyelitis- - osteomalacia and rickets deficiency D Vitamin - bone of disease Paget's - tumors Bone osteoma, osteoid :forming tumors Bone- osteoma osteogenic sarcoma - :tumors forming Cartilage Osteochondroma- Chondroblastoma- Miscellaneous tumors- Ewing sarcoma- Giant cell tumor- Metastatic tumors of bone-</p>
21	<p>The Endocrine System Pituitary Pituitary Adenomas Hyperpituitarism and- Prolactinomas- Growth Hormone producing Adenomas- Corticotroph Cell Adenomas- Neoplasms Pituitary Anterior Other- Hypopituitarism- Syndromes Posterior Pituitary- Thyroid Hyperthyroidism- Hypothyroidism- Thyroiditis- Hashimoto) thyroiditis) Chronic lymphocytic- (Sub acute granulomatous (de Quervain- Sub acute lymphocytic thyroiditis- Other forms of thyroiditis- Graves diseases- Diffuse and multinodular goiter-</p>

	<p>Thyroid Neoplasms of the-</p> <ul style="list-style-type: none"> Adenomas- Carcinomas- Carcinoma Papillary- Follicular Carcinoma- Medullary Carcinoma- Carcinoma Anaplastic- <p>Parathyroid Glands</p> <ul style="list-style-type: none"> Hyperparathyroidism- Primary Hyperparathyroidism- Secondary Hyperparathyroidism- Hyperparathyroidism- <p>Adrenal Cortex</p> <ul style="list-style-type: none"> Adrenocortical hyperfunction- (hyperadrenalism) (Hypercortisolism (Cushing syndrome- Hyperaldosteronism- Adrenogenital syndromes- Adrenal insufficiency- Acute adrenocortical insufficiency- Addison) insufficiency adrenocortical Chronic- (disease neoplasms Adrenocortical- Medulla Adrenal Pheochromocytoma- neoplasm neuronal other and Neuroblastoma- <p>Syndromes Neoplasia Endocrine Multiple</p> <ul style="list-style-type: none"> 1 type Neoplasia Endocrine Multiple- 2 type Neoplasia Endocrine Multiple-
22	<p>The central and peripheral nervous system Cells of the system nervous</p> <ul style="list-style-type: none"> Neurons- Astrocytes- Oligodendrocytes- Ependymal cells- Microglia- <p>Edema and hydrocephalus</p> <ul style="list-style-type: none"> Cerebral edema- Hydrocephalus - Vascular diseases encephalopathy ischemic-hypoxic Global- Infarcts- Intracranial hemorrhage- hemorrhage Primary brain parenchymal- subarachnoidal and Saccular aneurysm- hemorrhage

	Central nervous system trauma Epidural hematoma- Subdural hematoma- Infections of the nervous system Leptomeningitis- Acute purulent leptomeningitis- viral)meningitis) Acute lymphocytic- Chronic meningitis- (Parenchymal infections (encephalitis- Brain abscess- Viral encephalitis- Neoplasms of the central nervous system (Primary neuroglial tumors(Gliomas- Astrocytomas- Oligodendrogliomas- Ependymomas- neoplasmselialPrimitive neuroepith- Meningiomas- Metastatic neoplasms-
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Subject	Internal Medicine
Theory	45 hrs
Practice	60 hrs
Units	5
No	Title
1	Introduction
2	Basic nutrition
3	Malnutrition
4	Nutritional support
5	vitamins soluble Water
6	soluble vitamins Fat
7	Obesity
8	Metabolic diseases
9	Hyperuricaemia
0	Wilson's disease, haemochromatosis
10	Amyloidosis
11	Porphyrias, galactosaemia
12	Introduction to electrolytes & acid base balance
13	Sodium & water disturbance
14	hyperkalemia & Hypokalemia
15	Acid base balance
16	Metabolic acidosis, alkalosis
17	acidosis, alkalosis Respiration
18	Mixed acid base disturbance
19	Syndrome of inappropriate ADH secretion
20	Immune system
21	Immune deficiency
22	immune diseases-auto & Inflammatory response
23	Allergy
24	rejection & Transplantation
25	Introduction to infectious diseases
26	Leishmaniasis
27	Parasitic infections
28	Cholera
29	
30	Giardiasis
31	Malaria
32	Toxoplasmosis
33	Amebiasis

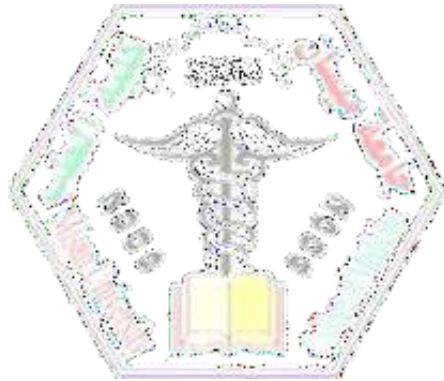
Subject	Pharmacology
Theory	90 hrs
Practice	60 hrs
Units	8
No	Title
1	General Pharmacology, Pharmacokinetics
2	Pharmacokinetics
3	Cholinergic system
4	system Adrenergic
5	Histamine and antihistamines
6	Serotonin , Kinins and Prostaglandins
7	system Central nervous Pharmacology Systemic
8	Anxiolytics and hypnotics
9	Antipsychotics Antidepressants
10	Antiepileptic Drugs Antiparkinsonian drugs
11	narcotic and NSAID-Non
12	Narcotic analgesic
13	Drugs for gout Antirheumatic drug treatment for headache Drug
14	General anaesthesia
15	Local anaesthesia Neuromuscular blocking drugs
16	Drugs acting on GIT
17	Drugs acting on respiratory tract
18	Diuretics Drugs acting on the heart Antihypertensive
19	drugs Antiarrhythmic
20	Hypolipidemic drugs Digitalis in heart failure
21	Blood coagulants-Anti
22	anemic drugs and vitamins-Anti
23	Antimicrobials (Antibiotics (Part one
24	(Antibiotics (Part two
25	Antifungal Antiviral Antiprotozoal and anthelmintic
26	drugs Antituberculosis Antimalarial drugs

	Antiseptics
27	Hormones Corticosteroids Thyroids hormones and antithyroid
28	Sex hormones, contraceptive drug Antidiabetics
29	Cytotoxic drugs Immunopharmacology
30	Drugs interaction Drug poisoning

Ministry Of Higher Education And Scientific Research

MISAN UNIVERSITY

College Of Medicine



Syllabus of Medical College Curriculum

FOURTH

YEAR

Subject	Family Medicine
Theory	90 hrs
Practice	60 hrs
Units	8
No	Title
1	Introduction : concept of health and disease, definition of epidemiology, epidemiological uses and approaches
2	Epidemiological data: types, sources and limitations
3	Epidemiological measurements : rates, proportions and ratios
4	Descriptive epidemiology: person, place and time
5	Longitudinal, sectional-Cross : studies epidemiological Descriptive Case control, Cohort, Interventional
6	The concept of association, causation, risk
7	studies Analytical epidemiological
8	-and quality control of screening and diagnostic tests screening clinical epidemiology
9	Designing epidemiological studies
10	The concept and investigation of epidemic
11	DEFINITION OF TERMS-
12	THE THROUGH ACQUIRED INFECTIONS- :GASTROINTESTINAL TRACT
13	Diarrhoeal diseases: extent of the problem, causes, risk factors and control
14	Comparative epidemiology of rotavirus, salmonella, cholera and shigellosis
15	Amoebiasis and shigellosis
16	poisoning Bacterial food
17	Poliomyelitis
18	A hepatitis Infections
19	Typhoid and paratyphoid fever
20	RESPIRATORY THE THROUGH ACQUIRED INFECTIONS - :(INFECTIONS BORNE AIR) SYSTEM
21	Acute respiratory infection (ARI): extent, causes, risk factors and strategies of control of ARI
22	Measles, german measles, chicken : Exanthematous infection - pox...etc
23	Mouth and throat infection: Diphtheria, mumps, and tonsillitis
24	Whooping cough
25	Tuberculosis
26	Leprosy
27	Acute bacterial meningitis
28	ACQUIRED INFECTION: INFECTIONS PERCUTANEOUS - SKIN THROUGH
29	insect bites: malaria, leishmaniasis, rickettsiasis

30	abrasions: anthrax
31	animal bites, rabies
32	wounds: tetanus
33	injections: hepatitis B, AIDS
34	Penetration: Schistosomiasis, hookworm
35	sEXUALLY TRANSMITTED DISEASE-
36	zOoNOTIC INFECTIONS -
37	Nosocomial infections and traVELLER HEALTH -
38	epidemiology of ischaemic heart diseases
39	epidemiology of diabetes mellitus
40	cancerepidemiology of
41	accidentsepidemiology of
42	epidemiology of mental health and geriatrics
43	Introduction to MCH care
44	careof MCH Components
45	pregnancyNutrition during
46	Infection during pregnancy
47	Low birth weight and prematurity
48	Evaluation of MCH care
49	under five clinics
50	growth monitoring
51	Immunization
52	Development clinics
53	care for handicapped children
54	School health services : concept and plans
55	Vital statistics in MCH care
56	environment of context the within disease and health of Definition health environmental and
57	Basic activities of environmental health
58	Water : sources , quality and related diseases
59	pollution air of control and effects health pollution of sources : Air
60	Toxicology: Common environmental problems
61	occupational health Definition of
62	Objectives of occupational health services
63	Health hazards associated with work
64	Health hazards to the environment and community which result activities from industrial
65	Safety measures in occupation
66	occupational diseases Selected
67	for PHCLimitation of the hospital model/Justifications
68	Definition, contents and difficulties of PHC/ Supportive prohammes/ The five star doctor
69	CDD EPI :programmesNational PHC
70	Breast feeding National PHC programmes: ARI, MCH
71	Brief historical view of Iraq health system

72	administration Concept of
73	Planning of health care services
74	Evaluation of health care services

Subject	Medical ethics
Theory	30 hrs
Practice	0 hrs
Units	2
No	Title
1	Ethics in general and medical ethics as a subset
2	Principles of medical ethics: Theoretical background with teaching ethics drawing on justification of extensive
3	Ethics in International documents
4	community relationship Ethical consideration of Doctors and the
5	Ethical consideration in preventive medicine
6	Medical ethics in historical perspectives
7	Ethics and research
8	patients Doctors and
9	colleagues Doctors and
10	Ethics in surgical practice
11	obstetrics Ethics in Gynaecology and
12	Ethics in Paediatrics
13	Ethics in Psychiatric practice
14	Ethical consideration in human reproduction
15	Accountability in practicing medicine
16	Special problems: Dying patients, surgical separation of twins necessary treatment Abortion, Refusal of
17	Optional topics

Subject	Obstetric
Theory	60 .hr
Practice	60 .hr
Units	6
No	Title
1	Obstetric history taking & examination
2	Fertilization , implantation, fetal development
3	Fetal development and growth
4	Placenta development & function
5	Physiological changes in pregnancy
6	Antenatal care
7	Antenatal imaging & assessment of fetal wellbeing
8	Assessment of fetal wellbeing
9	Prenatal diagnosis
10	Minor complications of pregnancy
11	infection Urinary tract
12	Fetal and maternal anatomy relevant to labor
13	(The process of labour(physiology, onset, stages
14	labour Mechanism of
15	labour normal Management of
16	labour Pain relief in
17	.(Abnormal labour (poor progress in labour
18	.(Malpresentation (face, brow
19	.(Malposition (occipitoposterior position
20	.(Abnormal lie (transverse, oblique
21	.(Cord presentation , & prolapse
22	.(Breech presentation
23	Induction of labour
24	hemorrhage postpartum
25	stage of labour Abnormalities of 3rd
26	Operative intervention in obstetrics
27	miscarriage of Types
28	The puerperium
29	The puerperium
30	term pregnancy-Post
31	Antepartum hemorrhage
32	immunization-Rhesus iso
33	Twins & higher multiples gestations
34	restriction fetal growth
35	Intrauterine fetal death
36	Hypertensive disorders of pregnancy
37	Hypertensive disorders of pregnancy
38	Late miscarriage & preterm labour
39	Prelabour rupture of the membranes

40	Amniotic fluid & its abnormalities
41	Respiratory diseases during pregnancy
42	Heart diseases during pregnancy
43	pregnancyDiabetes in
44	pregnancyDiabetes in
45	Anemia in pregnancy
46	Renal disease in pregnancy
47	Thyroid disease in pregnancy
48	Liver disease in pregnancy
49	Coagulation disorders in pregnancy
50	Connective tissue disease in pregnancy
51	Perinatal infection
52	Perinatal infection
53	Venous thromboembolism
54	Abdominal pain in pregnancy
55	Obstetric emergency
56	Obstetric emergencies
57	disorders & the puerperium Psychiatric
58	Drugs in pregnancy
59	Maternal & perinatal mortality
60	Neonatology

Subject	General surgery
Theory	90 hrs.
Practice	90 hrs
Units	9
No	Title
1	of aspect Surgical †Tumors †.F.B †anomaly Congenital .Esophagus Achalasia, Reflux, Hiatus Hernia
2	†Esophagus. Esophagitis, Dysphagia, Achalasia, Reflux, GERD Hiatus hernia
3	Stomach and Duodenum: Acute dilatation, Surgical treatment of peptic ulcer
4	†Endoscopy Secretary tests, Radiology :Duodenum and Stomach Gastritis, Peptic ulcers
5	Tumors of stomach, post gastric surgery complications
6	intestinal bleeding and its treatment-Gastro
7	:Liver †Investigations †Jaundice †Hepatitis †Cirrhosis Portal hypertension
8	:Spleen Indications for .surgery Surgical aspect of portal hypertension
9	Liver: Injury, Abscess, Cysts including Hydatid cyst, Tumors
10	†Gall bladder and Biliary tree: Investigations Congenital anomaly .Injuries, stones, Cholecystitis, Obstructive jaundice & Tumors
11	.Laparoscopy
12	Mesentery and :peritoneum †Peritonitis †Cysts Subphrenic .abscess
13	.Appendix: Appendicitis, Mass, Tumors
14	Exocrine Tumors †cysts †chronic and acute Pancreatitis :Pancreas .Endocrine&
15	Small and Large bowel diseases
16	physiology Surgical anatomy and
17	Constipation
18	Diverticular disease and blind loop syndrome
19	Inflammatory bowel diseases
20	Enterocutaneous fistula
21	Mesenteric vascular ischaemia
22	Intestinal obstruction
23	.Benign and Malignant tumors of intestine
24	Anorectal diseases
25	Surgical anatomy and physiology
26	Clinical assesement
27	Rectal prolapse, rectal Injuries and solitary rectal ulcer
28	Rectal tumours
29	.Pilonidal sinus
30	.Anal fissure, strictures, perianal abscess and perianal fistula

31	.Hemorrhoids
32	Anal canal tumours
33	Anal incontinence
34	Lower GIT bleeding
35	Diabetic foot and gangrene
36	Hernias
37	Abdominal wall
38	Urinary tract lectures
39	Urinary tract imaging
40	ureter Congenital anomalies of kidney and
41	Congenital anomalies of urinary bladder and urethra
42	Urinary tract infections
43	(ureteral reflux (VUR -Vesico
44	Genitourinary tuberculosis and bilharziasis
45	Minimal invasive Urology; Endourology, Laparoscopy, and
46	Robotic surgery
47	Urinary lithiasis
48	Obstructive uropathy
49	Tumors of the urinary bladder
50	Tumors of the kidney and ureter
51	Carcinoma of prostate
52	Benign prostatic hyperplasia
53	Benign disorders of the testicle
54	Tumors of the testis
55	infertility and sexual dysfunction Male
56	Renal transplantation
57	Introduction; anatomy and physiology of the kidney
58	Acute renal failure
59	Chronic renal failure
60	Nephritic and nephrotic syndromes
61	Glomerulonephritis
62	associated with systemic diseases Glomerulopathies
63	Diabetic nephropathy and hypertensive nephropathy
64	Drugs and the kidney

Subject	Pediatric
Theory	30 hrs
Practice	60 hrs
Units	4
No	Title
1	Feeding problems, ,Breast feeding, Formula feeding) : Infant feeding ,Constipation (Vomiting and Abdominal pain
2	Kwashiorkor, -Marasmus ,Marasmus ,Kwashiorkor) : Nutritional disorders Failure to th (.Calcium metabolism and rickets
3	Other ,program vaccine polio expanded and vaccine) : Immunization vaccine, Tetra vaccine, Penta ,includi hepatitisB vaccines contraindications and Complications (MMR ,Measles vaccine vaccination of .Immunization schedule in IRAQ
4	and growth affecting factors ,definition) : development and Growth ph ,development methods of ,development of growth and circumferential ,growth linear measurement developmenta ,fold skin& (milestones from birth until puberty
5	,rubella mumps measles ,encephalitis ,meningitis) : diseases Infectious cou whooping (azar-poliomyelitis, kala

Subject	Internal medicine
Theory	135 hrs.
Practice	90 hrs
Units	12
No	Title
1	A. Infectious diseases
2	(Salmonellosis (enteric fevers
3	Bacillary dysentery
4	Brucellosis
5	Tetanus -Anthrax
6	syndrome Septic shock
7	poisoning Food
8	(HIV) virus immunodeficiency Human
9	Cytomegalovirus infections
10	Infectious mononucleosis , haemorrhagic fevers
11	Pyrexia of unknown origin
12	Leptospirosis , Relapsing fever , Fungal infections
13	Cardiovascular diseases .B
14	Introduction and physiological aspects
15	Non invasive cardiovascular investigations
16	.Presenting Problems In Cardiovascular Disease
17	Disorders Of Heart Rate, Rhythm And Conduction
18	.Atherosclerosis
19	Coronary Heart Disease
20	Heart Valves Diseases Of The
21	Congenital Heart Disease
22	Rheumatic fever
23	Infective endocarditis
24	myocardium Diseases of
25	Diseases Of The Pericardium
26	Hypertension
27	Pregnancy and heart disease
28	Heart failure
29	Peripheral circulatory failure
30	Peripheral vascular diseases
31	diseases C. Respiratory
32	Anatomical and physiological consideration
33	Common clinical manifestations of respiratory diseases
34	Investigations , and diagnostic procedures in respiratory
35	tract infection Acute upper respiratory
36	The pneumonias
37	Suppurative lung disease , bronchiectasis
38	Obstructive airway diseases
39	Pneumothorax

40	Pleural effusion
41	Interstitial lung diseases
42	Respiratory failure
43	syndrome Adult respiratory distress
44	Cor pulmonale
45	Bronchogenic carcinoma
46	Pulmonary T.B
47	Pulmonary embolism
48	D.Endocrine and Metabolic disorders
49	neuroendocrine relationship-Introduction
50	diseases Pituitary gland
51	diseases Thyroid gland
52	mellitus Diabetes
53	Adrenal gland diseases
54	Parathyroid gland diseases
55	Gonadal diseases
56	Dyslipidemia
57	Porphyria
58	E.Gastroenterology and liver diseases
59	Functional anatomy of gasterointestinal systeme
60	Common clinical manifestations of GIT
61	diseases .G.IInvestigations of the
62	Diseases of the esophagus: dysphagia , esophagitis , hiatus hernia, achalasia, tumours
63	Ulcer Diseases of stomach
64	Tumours stomach of the
65	G.I.Bleeding
66	Malabsorption syndrome
67	of small bowel Ischaemia and tumours
68	bowel diseases inflammatoryChronic
69	Tumours of large bowel
70	‘acute viral hepatitis -The liver: Acute paranchymal liver disease Portal ‘ disease liver Chronic‘ failure hepatic fulminant Acute hypertension
71	disease Drug induced liver
72	Tumours of the liver : biliary system
73	Pancreatic diseases: acute pancreatitis
74	system biliary
75	.F Poisoning Drug
76	Drug poisoning
77	Chemical poisoning

دور و واجب الاطباء تجاه الحالات الطبية العدلية
- والعلاج الاسعاف
- المادية الادلة ضبط
- التحقيقية الجهات اخبار
- تنظيمه وكيفية العدلي الطبي التقرير
- الاصابة شدة تقييم
للمصاب الصحية العامة الحالة تقييم

الجروح

والقضائي الطبي الجروح تعريف
-القانونية والمصطلحات بالجروح المتعلقة القانونية النصوص استعراض
:- الجروح تصنيف في المعتمدة الاسس
:المصاب وحياة صحة على تأثيرها مدى 1
-بسيطة*
-خطيرة*
-قاتلة*
:- للجرح المحدثه الاداة نوع 2
-والكدمات السحجات*
-الرضية الجروح*
-القطعية الجروح*
-الطغنية الجروح*
-الوخزية الجروح*
-النارية الجروح*
3
:- للجروح القضائي الطبي الفحص
-الجرح نوع*
-الجرح موقع*
-الجرح صفات*
(قاتلة , خطيرة , -بسيطة) الاصابة شدة تقييم*
-العامة الحالة تقييم*
(سينة, متوسطة, جيدة)للمصاب
للجرح -المحدثه الاداة نوع تحديد*
(مفتعلة , عارضية,انتحارية, جنائية)الاصابة -حصول كيفية تحديد*
الوفاة حدوث -حال في الاصابة حيوية تحديد*
والحالة الاصابة وبين والوفاة الاصابة -بين السببية الرابطة تحديد*
المرضية
:- الجروح في الموت اسباب
الحياة لديمومة مهمة اعضاء اصابة*

العصبية الصدمة*
 الدموية الصدمة*
 العصبي النهي*
 الدموي النزف*
 الخمج*
 (الهوائية, الشحمية, الدموية) والصمات الخثرات*
 الكلتيين عجز*
 الكظرية الغدة نزف*
 :- المختلفة الجسم مناطق جروح
 الراس فروة جروح*
 الجمجمة كسور*
 (التفتتية, الانخسافية, الخطية) المباشرة الكسور
 (الحلقي, المستعرض, الطولي)المباشرة غير الكسور
 الدماغ اصابات*
 -الدماغي الارتجاج
 -الدماغية الكدمة
 -الدماغ تمزق
 -الدماغية الوذمة
 -الدماغي النزف
 -السحائية الانزفة*
 -الجافية فوق النزف
 -الجافية تحت النزف
 -العنكبوتية تحت النزف
 الشوكي الحبل واصابات الفقري العمود كسور*
 (العرضية, الجنائية, الانتحارية) الرقبة جروح*
 :-الصدر اصابات*
 -الاضلاع كسور
 -الرنة اصابات
 -القلب اصابات
 -الدموية الاوعية اصابات
 :-البطن اصابات*
 -الطحال اصابات
 -الكبد اصابات
 -والامعاء المعدة اصابات
 اصابات الكلية والغدة الكظرية -اصابات المثانة البولية-

جروح الاسلحة النارية

4

<p>النارية الاسلحة جروح دراسة من الغاية*</p> <p>النارية الاسلحة انواع*</p> <p>النارية الاسلحة جروح صفات*</p> <p>الناري الطلق ومخرج مدخل تحديد*</p> <p>الاطلاق مسافة تحديد*</p> <p>الاطلاق اتجاه تحديد*</p> <p>الناري السلاح نوع تحديد*</p> <p>للموفاة الحقيقي السبب تحديد*</p> <p>والجرمية المادية الادلة ضبط*</p> <p>الاصابة وكيفية الحادث ظروف تحديد*</p>	
<p>الحادث حصول وكيفية الاصابة ظروف</p> <p>الجناية الكيفية</p> <p>الانتحارية الكيفية</p> <p>العارضية الكيفية</p> <p>الكيفية المفتعلة</p>	5
<p>الموت</p> <p>الموت تعريف*</p> <p>الموت تشخيص*</p> <p>الموت تشخيص اهمية*</p> <p>الموت انواع*</p>	6
<p><u>الحروق</u></p> <p>-الحروق تعريف</p> <p>-الحروق انواع</p> <p>-الكهربائي الحرق</p> <p>-الكيميائي الحرق</p> <p>(-الرطب الحرق, الجاف الحرق) الحراري الحرق</p> <p>- الحرق درجة تعيين الحروق دراسة من المتحققة الاغراض</p> <p>-للحرق السطحية المساحة تعيين</p> <p>(-السلقي الحرق, الناري الحرق) للحرق المسبب العامل تعيين</p> <p>-الحرق حيوية تعيين</p> <p>-الحرق في الخطورة عوامل تعيين</p> <p>-للحرق والتشريحية السريرية العلامات</p> <p>-الحروق في الوفاة اسباب</p>	7

<p>اضرار البرد (عضة الصقيع او الموت بردا -)</p>	
<p>الكهربانية الصدمة -الكهرباني للتيار الفيزيائية الصفات -الكهرباني للحرق والتشريحية السريرية العلامات -الكهرباني بالصعق الموت والية اسباب الجوية الصاعقة</p>	<p>8</p>
<p>الاختناق -الاختناق تعريف -الاختناق اسباب -الاختناق مراحل -للاختناق العامة العلامات -الاختناق انواع -النفس كتم -اليدوي الخنق -الرباطي الخنق -الشنق (-الرضي او الاصابي الاختناق) الصدر على بالضغط الاختناق -الغلق محكم حيز في الاختناق (-الزهرق او الغصص) غريب جسم باستنشاق الاختناق (-الرطب الغرق , الجاف الغرق) الغرق انواع: الغرق الماء في الجثة انغمار علامات* الغرق في الموت الية* الغرق في التشريحية المشاهدات*</p>	<p>9</p>
<p>السيارات (النقل وسائط اصابات) السيارات حوادث دراسة من الاهداف* (السيارات انقلاب , تصادم, دهس) السيارات حوادث انواع* الدهس مراحل اصابات* السائق اصابات*</p>	<p>10</p>
<p>الجنسية القضايا ورودها وسبب العدلية الطبية الى الواردة الحالات* البكارة غشاء فحص* الجنسية الجرائم انواع* الاغتصاب*</p>	<p>11</p>

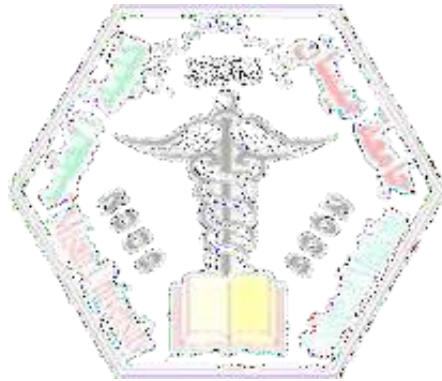
<p>السفاح* العرض هتك* اللواط* الشرعي غير الحمل* الجنائي الاجهاض* الوليد قتل جريمة* والعقم العنة*</p>	
<p>المفاجئ الموت المفاجيء الموت تعريف* المختلفة العمرية الفئات حسب المفاجيء الموت اسباب* القلبية العضلة احتشاء* والصمات والاورام كالصرع الدماغ في النزفية وغير النزفية الامراض* الرئوية الدموية الصمة* الربو* متفرقة اخرى اسباب* (المهد موت) المفاجيء الرضع موت* اثناء او (العام التخدير تحت الموت) الجراحية العمليات اثناء الموت* الاجراءات</p>	12
<p>السموم تعريف* الجسم على السم تاثير في المؤثرة العوامل* بالكحول التسمم* والاعتماد الادمان* الحشرات بمبيدات التسمم* (الابيض النفط) بالكيروسين التسمم* بالسيانيد التسمم* الكاربون او كسيد احادي بغاز التسمم*</p>	13
<p>الاستعراف الاحياء على التعرف- الحديثة الهوية مجهولة الجثث على التعرف-</p>	14

Subject	Psychology
Theory	.hr 30
Practice	.hr 0
Units	2
No	Title
1	Introduction to and history of psychology
2	Intelligence
3	Personality
4	Development
5	Normality
6	Memory
7	Arousal Perception and
8	Consciousness
9	Learning
10	Stress & Coping
11	Motivation & Work
12	Emotions
13	Reasoning & Thinking
14	Language
15	Genetic Basis Of Behavior
16	Behavior Biochemical Basis & Pharmacology of
17	Psychodynamic Determinants of Behavior
18	Family, Social & Cultural Aspects of Illness
19	Psychological Aspects of Illness, Sick Role & Illness Behavior
20	Psychology of Death ,Dying & Bereavement
21	Social Psychology
22	Sexuality & Gender

Ministry Of Higher Education And Scientific Research

MISAN UNIVERSITY

College Of Medicine



Syllabus of Medical College Curriculum

FIFTH

YEAR

Subject	and Obstetric Gynecology
Theory	60 hrs
Practice	60 hrs
Units	6
No	Title
1	Menstrual cycle
2	Amenorrhea
3	Amenorrhea 2
4	Normal and abnormal sexual development(GT abnormality
5	Puberty
6	Androgen excess
7	cycle normal menstrualThe
8	-menstrual cycle Disorder of the
9	Embryology of the female reproductive system
10	Polycystic ovarian syndrome
11	bleeding menstrual Heavy
12	(Dysfunctional uterine bleeding (BEO
13	Dysmenorrhea
14	Premenstrual tension syndrome
15	Postmenopausal bleeding
16	genital tract infection Lower
17	Upper genital tract infection
18	Sexual transmitted infections
19	Fertility control, contraception
20	Contraception & sterilization
21	Subfertility 1
22	Subfertility 2
23	Assisted reproductive technology
24	Recurrent miscarriage -early pregnancy Problems in
25	Ectopic pregnancy
26	(Gestational trophoblastic disorder (GTD
27	Persistent GTD
28	adenomyosis & Endometriosis
29	Benign diseases of the uterus and cervix
30	Benign diseases of the ovary
31	the ovary Benign tumors of
32	Malignant tumors of the ovary and fallopian tube
33	Malignant tumors of the ovary and fallopian tube
34	pregnancyduring tumor Ovarian
35	Malignant disease of the uterus

36	Premalignant disease of the cervix
37	the cervix Premalignant disease of
38	Malignant disease of the cervix
39	Malignant disease of the cervix

40	Benign disease of the vulva
41	Malignant disease of the vulva
42	Benign & malignant disease of the vagina
43	HIV -Infection in gynecology
44	genital tract Tuberculosis of the
45	Urogynecology 1
46	Urogynecology2
47	Urogynecology 3
48	Pelvic organ prolapse(anatomy) 1
49	Pelvic organ prolapse 2
50	1 menopauseThe
51	2 menopauseThe
52	Endoscopic surgery in gynecology 1
53	Endoscopic surgery in gynecology 2
54	Gynecological operations 1
55	Gynecological operations 2
56	Postoperative complications in gynecology
57	Chronic pelvic pain and back pain
58	gynecologytherapy in Hormone
59	Radiotherapy in gynecology
60	gynecologyChemotherapy in

Subject	General surgery
Theory	120 hrs
Practice	120 hrs
Units	12
No	Title
1	A. Cardiothoracic surgery lectures
2	Thoracic Anatomy):mediastinum Chest wall, pleura, lung, and Incisions Thoracic Injuries Conditions Requiring Urgent Congenital Injurie Correction, Dangerous But Less Compelling Deformities, Chest Wall Tumors
3	Pleural Effusion : Diseases of the Pleura and Pleural Space Tumors
4	Lesions Diagnostic Modalities, Congenital Lung Anatomy :Lung Carcinoma Primary)Infections ,Tumors Pulmonary Solitary) Nodules, Other Lung Tumors Pulmonary
5	Trachea: Congenital Lesions, Trauma, Neoplasms
6	Mediastinum Vena Tumors and Cysts, Mediastinitis , Superior Caval Obstruction
7	Cardiac :surgery Cardiopulmonary heart bypass, Congenital and diseases heart valvular) disease heart Acquired disease replacement surgery and Valves (ischaemic heart diseases tumours cardiac and transplantation Cardiac pacemaker Cardiac
8	Pericardium anatomy and physiology pericardial effusion constrictive pericarditis and pericardiocentesis
9	Vascular surgery lectures .B
10	Investigations of vascular diseases
11	Aneurysmal diseases
12	Thoracic aortic dissection
13	(and Vasculitis Occlusive disease (Atherosclerosis
14	Vascular embolism
15	Arteriovenous fistulas
16	Vascular trauma
17	Vasospastic disorders (Raynaud's phenomenon and Vibration .(white finger
18	Cold injury
19	C. Maxillofacial surgery lectures
20	Maxillofacial injuries
21	Developmental and dislocation mandibular Orthopantomography abnormalities of the teeth
22	Swellings of the jaw
23	Infections in Maxillofacial surgery
24	cleft and lip cleft) palate and lips face the of anomalies Congenital (palate
25	cyst dermoid Oral cavity disorders: congenital anomalies, ranula

	and stomatitis
26	aerodigestive and oral and cavity oral of conditions Premalignant cancers
27	Tongue disorders: tongue ulcers, fissures, tongue tie, glossitis tongue tumours and
28	D. Anesthesia
29	History of anaesthesia ,and Preparation for anaesthesia
30	Preoperative investigation
31	Preoperative evaluation and management
32	Preoperative drugs and treatment
33	General anaesthesia
34	during anaesthesia General Management of the airway
35	Haemostasis and blood pressure control
36	Monitoring during anaesthesia
37	Recovery from general anaesthesia
38	Management of blood pressure in the recovery room (hypo and (hypertension
39	Local anaesthesia
40	Perioperative pain relief (acute pain management
41	post operative pain management
42	reliefchronic pain
43	E. Orthopedic
44	Fractures and Joint Injuries .1
45	injuries major of managementThe
46	.fracturesPrinciple of
47	.upper arm and elbow ‘Injuries of the shoulder
48	.Injuries of the forearm and wrist
49	.Hand injuries
50	.Injuries of the spine
51	.Injuries of the pelvis
52	.Injuries of the hip and femur
53	.Injuries of the knee and leg
54	.Injuries of the ankle and foot
55	Orthopedics General .2
56	.Orthopedic diagnosis
57	.Infection
58	.Rheumatic disorders
59	.Crystal deposition disorders
60	.Osteoarthritis
61	Osteonecrosis and related disorders
62	surgeryOrthopedic .3
63	Acute Osteomyelitis
64	Genetic disorders
65	Rheumatic disorders
66	Hand congenital and acquired deformities

67	Neuromuscular disorders
68	deformities Congenital foot
69	Chronic Osteomyelitis
70	Crystal deposition disorders
71	Peripheral nerve injuries
72	Wrist disorders
73	Metabolic and endocrine disorders
74	Elbow disorders
75	Hip disorders
76	Bone Tumors
77	Shoulder and pectoral girdle disorders
78	Bone Tumors
79	Hand disorders
80	Cervical disorders
81	kyphosis Scoliosis and
82	Knee disorders
83	prolapsed disc Intervertebral
84	Orthopedic operations
85	Knee joint swelling
86	Hand infections
87	Torticollis
88	Deformities of toes
89	Soft tissue tumors
90	Ankylosing spondylitis
91	Spondylolysthesis

Subject	Dermatology
Theory	30 hrs
Practice	30 hrs
Units	3
No	Title
1	.of the skinfunction& Anatomy
2	skin and morphological of terms Histology of the skin, general . lesions
3	infection Bacterial skin
4	.(Fungal infections (Mycoses
5	.Viral infections
6	.Leprosyand TB
7	.pigmentation Disorders of
8	Disorders of sebaceous gland
9	Disorders of sweat gland
10	Disorders of blood vessels
11	.Leishmania
12	.Psoriasis
13	.Lichen planus ,pityriasis rosea
14	.rosacea Acne· Acniform rash· Acne
15	.Urticaria & erythemas
16	.Bullous eruption
17	Reaction to physical agent
18	.Eczema , atopic dermatitis
19	.Nail & its disorders
20	Skin tumors
21	.Contaneus manifestation of internal organs and AIDS
22	.Drugs eruptions
23	.Genodermatoses
24	diseases.1 Skin in connective tissue
25	Skin in connective tissue diseases.2
26	.Syphilis and other treponematosis
27	.Chancoroid and other genital ulcers
28	.Gonococcal &non gonococcal urthritis-Urtheral discharge
29	.Dermatological therapy: topical &physical therapies
30	.Systemic therapies

Subject	E.N.T
Theory	30 hrs
Practice	30 hrs
Units	3
No	Title
1	Surgical anatomy and applied physiology of the nose paranasal .sinses
2	.Radiology and endoscopy of the nose and paranasal sinuses
3	Congenital malformation and injuries of the nose and paranasal .sinuses
4	Infection of the nose and paranasal sinuses and their management
5	.Nasal allergy and vasomotor rhinitis
6	.Epistaxis
7	.Tumors of the nose and paranasal sinuses
8	anatomy and applied physiology of pharynx and Surgical .esophagus
9	.Inflammation of the mouth and pharynx
10	Ulcers
11	.Adenoid hyper atrophy-Tonsillitis and Adenoid is
12	.Tonsillitis and Adenoidectomy, indications and complications
13	.Dysphagia-and hypopharynx nasopharynx Tumors of the
14	.Surgical anatomy and applied of the Larynx
15	.Congenital malformations and injuries of the Larynx
16	.Laryngitis and chronic Acute
17	.Hoarseness
18	.Stridor
19	.Larynx Tumors of the
20	.Lump in the Neck
21	.labyrinth–Surgical anatomy of the ear
22	.Physiology of hearing and vestibular system
23	.Hearing impairment and audio logical assessment
24	Vertigo and neurological assessment
25	.Congenital malformation, trauma and neoplasm of the ear
26	.media Acute, chronic and secretory Otitis
27	Complications of the middle ear infections
28	.Principles of middle ear surgery
29	.Otosclerosis
30	.Mienier's disease
31	B.P.P.V
32	Vestibular neuronitis

Subject	Ophthalmology
Theory	30 hrs
Practice	30 hrs
Units	3
No	Title
1	Refractive errors (The optical system of the eye, myopia accommodation anisometropia astigmatism hyperopia .(lenses contact presbyopia
2	lid eye diseases lid eye allergic trichiasis disorders lid Eye and nodules benign zoster herpes simplex herpes - infection - tumors malignant blepharitis marginal styne chalazion cysts melanoma carcinoma cell squamous carcinoma cell basal (ectropion, entropion, ptosis
3	orbital hemorrhage, blow out Orbital eye disorders (Trauma : Tumours cellulitis preseptal cellulitis orbital : Infection fracture eye thyroid hemangioma cavernous sarcoma-rhabdomyo (disease
4	conjunctivitis; bacterial anatomy Applied) diseases Conjunctival conjunctivitis; allergic conjunctivitis chlamydial conjunctivitis viral non lesions conjunctival pigmented degenerations conjunctival .(pigmented conjunctival tumours
5	bacterial anatomy corneal Applied) I diseases sclera and Corneal zoster keratitis; herpes simplex keratitis; fungal keratitis; herpes foreign corneal laceration corneal abrasion corneal keratitis .(body; chemical corneal injury; keratoconus
6	Definition; aqueous pathophysiology; tonometry;) Glaucoma assessment field visual assessment nerve optic gonioscopy glaucoma angle narrow primary glaucoma angle open primary in laser therapy medical glaucoma glaucoma congenital .(glaucoma
7	Retinal detachment (Applied anatomy, rhegmatogenous retinal retinal detachment, tractional retinal detachment, exudative .(detachment, treatment of retinal detachment
8	Corneal and sclera diseases II (Exposure keratopathy surgical keratoconjunctivitis sicca, keratoplasty, refractive .(procedures, episcleritis, scleritis
9	retinopathy, Central retinal Retinal vascular diseases I (Diabetic fugax Amaurosis occlusion vein retinal Branch occlusion vein .(occlusion artery retinal Central
10	Crystalline lens disorders (Pathogenesis of cataract, causes of Ectopia cataract congenital surgery cataract of types cataract .(lenticis
11	pigmentosa retinitis retinopathy Hypertensive) II diseases Retinal .(Age related macular degeneration, myopic maculopathy

12	etiological †classification clinical †classification Anatomical) Uveitis †diagnosis differential †features clinical †classification (treatment, Hyphema †complications
13	I (Optic neuritis, optic atrophy, anterior Neuroophthalmology alcohol †neuropathy optic compressive †neuropathy optic ischemic .(papilledema †tobacco amblyopia
14	duct nasolacrimal congenital †anatomy Applied) diseases Lacrimal .(obstruction, dacryocystitis, canaliculitis
15	nerve Abducent †Oculomotor nerve palsy) II Neuroophthalmology .(nerve palsy, drug induced optic neuropathy palsy, Trochlear
16	†Retinoblastoma, Choroidal melanoma) Intraocular tumors .(Metastatic carcinoma
17	general outlines of †trauma Terminology of eye) trauma Eye blunt of complications segment anterior †trauma Blunt †treatment †trauma blunt of complications segment posterior †trauma .(Penetrating trauma
18	†esotropia accommodative †esotropia infantile †Introduction) Squint .(exotropia, exophoria, hypertropia, hypotropia
19	Laser in ophthalmology (Properties of laser light, Laser tissue .(interaction, Choice of laser wavelength

Subject	Internal medicine
Theory	90 hrs
Practice	60 hrs
Units	8
No	Title
1	A. Nephrology
2	Functional anatomy and physiology
3	Investigation of renal and urinary tract disease
4	Glomerular diseases :gn,nephrotic syn
5	interstitial diseases-Tubulo
6	Acute renal failure
7	failureChronic renal
8	therapyRenal replacement
9	Diseases of the lower genitourinary tract
10	kidneyDrugs and the
11	Renal involvement in systemic conditions
12	Renal tumours
13	diseaseB. Blood
14	Functional anatomy and physiology
15	CLINICAL EXAMINATION IN BLOOD DISEASE
16	Investigation of diseases of the blood
17	Blood products and transfusion
18	Anticoagulant and antithrombotic therapy
19	Anaemias
20	Haemoglobinopathies
21	Haematological malignancies
22	Myeloproliferative disorders
23	Bleeding disorders
24	Thrombotic disorders
25	diseaseC. Neurological
26	and physiology anatomyFunctional
27	Investigation of neurological disease
28	Headache syndromes
29	Epilepsy
30	diseaseCerebrovascular
31	Inflammatory diseases
32	Neurodegenerative diseases
33	Infections of the nervous system
34	Intracranial mass and raised intracranial pressure
35	Diseases of peripheral nerves
36	Diseases of the neuromuscular junction
37	muscleDiseases of

Subject	Pediatric
Theory	90 hrs
Practice	0
Units	6
No	Title
1	,weight birth low ,the normal newborn & care): Diseases of the newborn premature ,disease membrane hyaline ,gestational age for baby, small encephalopathy, neonatal ischemic hypoxic ,post term baby hyperbilirubinemia neonatal ,infections convulsions, neonatal diabetic of infant ,newborn of diseases jaundice),and metabolic) of disease mother, hypoglycemia, hypocalcemia, hematological (newborn, hemorrhagic disease of newborn
2	basic genetics, inherited disorders, Chromosomal) : Genetic disorders abnormalities, single gene disorders (Mendelian disorders) , Unusual genetic mechanisms, Interaction of polygenic,) genetic and environmental factors multifactorial, or complex disorders), trisomy 21, 13, 18, ,Klinefelter syndrome, Turner syndrome, and cri du chat (Genetic counseling
3	,TGA , VSD, ASD, PDA, TOF :diseases congenital heart) : diseases Cardiac ,failure heart (rheumatic fever endocarditis and
4	infectious croup, epiglottitis, bronchiolitis,) : Respiratory diseases (pneumonia
5	(atopic conditions and asthma) : Atopic disorders
6	Diabetes mellitus
7	and fluid ,dehydration ,gastroenteritis) : disorders intestinal Gastro thera lectrolytes ,GIT of malformation congenital ,ORT fistula, pyloric esophageal -trachea hirshsprung and ,stenosis (disease
8	UTI, acute post streptococcal) : Renal system disorders nephrotic,glomerulonephritis (syndrome uremic hemolytic
9	,definition :disorders convulsions): disorders system Nervous t clinical ,classifications seizu mal ptit ,spasm infantile ,convulsion febrile including myoclonic seizures. Cerebral palsy, mental (retardation
10	,anemia deficiency iron including anemia) : oncology and Hematology hemoglobinop ,children in leukemia ,defect membrane di hemorrhagic willibrand disease -including hemophilia, von (and thrombocytopenia
11	and iron ,lead ,kerosene ,salicylate ,measures general) : Poisoning organophosphorus

Subject	Radiology
Theory	30 hrs
Practice	30 hrs
Units	2
No	Title
1	1- Introduction:
2	.Aims & objectives of radiology
3	.department imaging The
4	& CT ·imaging nuclide-ultrasound, radio ·ray-X Basic principles of .MRI
5	·ray, ultrasound-Indications, limitations, & contraindications of x .radionuclide imaging, CT & MRI
6	.Contrast medium used in radiology
7	.protection radiation & hazards ray-X
8	Respiratory system I, II, III .2
9	.Radiological anatomy of the lungs
10	.Investigations in chest diseases
11	chest normal of technique & procedure, interpretation ray-x Chest .ray-x
12	.ray-Diseases of the chest with normal chest x
13	space air ·(sign Silhouette) disease lung of signs Radiological ·cavitation ·shadows spherical ·collapse pulmonary ·filling .(calcification, hilar enlargement, line & widespread shadows
14	.Diseases of the pleura
15	.Diseases of the mediastinum
16	·TB Pulmonary ·abscess Lung ·(pneumonia) diseases lung specific ·embolism Pulmonary ·airway the of Diseases ·Hydatid Pulmonary Pulmonary ·metastases Pulmonary ·Bronchogenic carcinoma ·pneumonitis Radiation ·trauma Chest ·ARDS & RDS ·lymphoma .(Cystic fibrosis
17	.Diseases of the diaphragm
18	vascular system I, II-The cardio .3
19	.Investigations of the cardiovascular system
20	·Radiological evidence of heart disease: (Heart size & shape .(evidence of pericardial disease, pulmonary vessels
21	·Specific heart disease (Heart failure, Valvular heart disease .(congenital heart disease ·ischemic heart disease
22	.Diseases of the aorta
23	.Dextrocardia
24	Plain abdomen .4
25	.General considerations
26	.Normal findings in plain abdominal films
27	·Interpretation of abnormal plain abdominal film: (Bowel dilatation .(lumen, Ascitis, Abdominal calcifications Gas outside bowel

28	intestinal tract I, II-Gastro .5
29	.Normal radiographic anatomy
30	Types of contrast study of the GIT
31	.Specific radiological terms in GIT diseases
32	.Diseases of the esophagus
33	.Diseases of the stomach small bowel
34	.Diseases of the large bowel
35	pancreas & spleen ,Liver .6
36	Normal radiographic anatomy & investigations of hepatobiliary system
37	.Diseases of the liver & biliary system
38	.the spleen Radiological investigations of
39	.Radiological investigations & diseases of the pancreas
40	Peritoneal cavity & retroperitoneum .7
41	-Diseases of the peritoneum (ascitis, peritoneal tumors, intra (peritoneal abscesses
42	.peritoneum-retro Investigations of the
43	peritoneal -peritoneum (retro-Diseases of the retro peritoneal-retro ,gland adrenal the of disease ,lymphadenopathy -retro ,hematoma peritoneal-retro ,aneurysm aortic ,tumors (abscesses psoas & peritoneal
44	Urinary tract I, II .8
45	urinary tract Investigations of the
46	.Urinary calculi & Nephrocalcinosis
47	.obstruction Urinary tract
48	,Angiomyolipoma ,renal cyst masses (simple Renal paranchymal ,(Renal cell carcinoma
49	.Urothelial tumor
50	& Infection (acute & Emphysematous pyelonephritis, Renal perinephric abscess, Pyonephrosis, Renal TB, Chronic ,(pyelonephritis
51	.ureteric reflux-Vesico
52	.Renal trauma
53	.failure Chronic renal
54	.Congenital variation of the urinary tract
55	the Diseases of the UB, diseases of the prostate, diseases of .Urethra
56	.Diseases of the Sacrotum & testes
57	Female genital tract .9
58	.Investigations & normal radiographic anatomy
59	,masses ovarian) tract genital female the of diseases Specific ,(endometriosis ,disease inflammatory pelvic ,masses uterine
60	.Ultrasound appearance of normal uterine pregnancy
61	.Ectopic pregnancy
62	imaging Breast .10

63	.breast Investigations of
64	.Normal radiographic anatomy
65	breast (fibroadenoma (cyst simple) breast the of diseases Specific (carcinoma
66	Radiology of bone diseases I, II, III .11
67	Plain radiographic Signs of bone diseases
68	.Classification of bone diseases
69	.Radiological assessment of solitary bone lesion
70	Ewing (Chondrosarcoma (Osteosarcoma) :tumors bone Malignant (sarcoma, Giant cell tumor
71	.like lesion tumor & tumors Benign
72	(Bone infection (Osteomyelitis, TB
73	(myeloma multiple & metastases bone) lesions bone focal Multiple
74	.Generalized decrease in bone density
75	.Generalized increase in bone density
76	.Acromegally
77	.Radiology of bone trauma
78	Radiology of joint diseases .12
79	.of joint diseasetechniques Imaging
80	Plain radiographic Signs of joint diseases
81	(arthritis osteoarthritis, pyogenic (Arthritis (rheumatoid arthritis
82	.Avascular necrosis
83	Radiology of the spine I, II .13
84	Imaging investigations of the spine
85	.Anatomical review
86	.Plain radiographic Signs of spinal abnormality
87	& Metastases, lymphoma) :Specific diseases of the spine Myeloma, spinal infection, spinal trauma, degenerative disc Spinal (spondylitis Ankylosing (stenosis Spinal (disease (compression cord spinal (dysraphysim
88	Skull & brain I, II .14
89	Imaging investigations of the skull & brain
90	.Normal radiographic anatomy of the skull & brain
91	Specific brain disorders: (brain tumors, stroke, infection, multiple (sclerosis
92	.Radiology of head injury
93	Sinuses, orbit & neck I, II .15
94	.sinuses nasal-Imaging techniques & diseases of the para
95	.Imaging techniques & diseases of the orbit
96	.Imaging techniques & diseases of the salivary glands
99	.gland thyroid-para & thyroid the of diseases & techniques Imaging
100	Angiography .16
101	.complications of arteriography & Definition, indications, principles
102	.Indications of venography
103	venous-arterio (Atheroma (Aneurysms) disorders vascular Specific

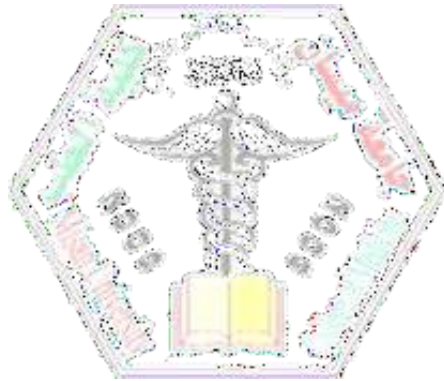
	.fistula & malformation, Stenosis & Fibromuscular hyperplasia . (Thrombosis & Embolism, vascular Tumors
104	Interventional radiology
105	.Vascular interventional proctures
106	.biopsyPercutaneous needle
107	.Percutaneous drainage of abscess & fluid collections
108	.Interventions in urinary obstruction
109	.Interventions in biliary obstruction

Subject	Psychiatry
Theory	60 hrs
Practice	30 hrs
Units	5
No	Title
1	History of Psychiatry ,Diagnosis& Classification of Mental Disorders
2	Doctor Relationship-The patient
3	(symptomatology) Psychopathology
4	Psychotic Disorders Schizophrenia Spectrum and Other
5	Depressive Disorders
6	Bipolar & Related Disorders
7	Anxiety Disorders
8	Compulsive and Related Disorders-Obsessive
9	Related Disorders-and Stressor -Trauma
10	Somatic Symptom and Related Disorders
11	Dissociative Disorders
12	Feeding & Eating Disorders
13	Wake Disorders-Sleep
14	Related and Addictive Disorders-Substance
15	Control, and Conduct Disorders-Disruptive, Impulse
16	DisordersNeurodevelopmental
17	Sexual Dysfunction
18	Paraphilic Disorders
19	Gender Dysphoria
20	Personality Disorders
21	of Medicine AspectsPsychiatric

Ministry Of Higher Education And Scientific Research

MISAN UNIVERSITY

College Of Medicine



Syllabus of Medical College Curriculum

SIXTH YEAR

Number of weeks		Subject	Code
Units	Weeks		
11	11	Internal Medicine	IM06
11	11	Surgery	SYG06
10	10	Obstetrics & gynecology	GOB06
10	10	Pediatrics	PED06
42	42	TOTAL WEEKS	