

Ministry of Higher Education and Scientific Research

UNIVERSITY OF MISAN

College of Medicine



Curriculum

Syllabus of Medical College Curriculum

2025-2024

Ministry of Higher Education and Scientific Research

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College Of Medicine



Syllabus of Medical College Curriculum

First Year

2025-2024

Subject	<i>Medical biology</i>
Theory	60 hrs
Practical	60 hrs
Units	٦
No	Title
١	Molecular Cell Biology .A
٢	Introduction
٣	From molecules to cells
٤	Instrumentation with special reference to EM
٥	membrane Molecular organization of plasma
٦	Functional aspects of plasma membrane
٧	Cellular differentiation
٨	Cellular specialization
٩	Cellular activities
١٠	divisioncell &Nucleus
١١	Cell chemistry
١٢	Cell organelles
١٣	Molecular Biology for specialized cells
١٤	aging Cellular
١٥	living inclusions of cells-Non
١٦	Molecular genetics
١٧	Introduction
١٨	linked inheritance-Sex
١٩	Molecular structure of gene .B
٢٠	Molecular structure of genetic code
٢١	Molecular basis of crossing over
٢٢	DNA structure
٢٣	Mutations
٢٤	mechanismsGenetic control
٢٥	Genetic engineering
٢٦	Molecular basis of recombination
٢٧	Preparation of recombinant DNA
٢٨	Genetic cloning technique
٢٩	Histology Preliminary .C
٣٠	Connective tissues
٣١	Specialized connective tissues
٣٢	tissue Muscular
٣٣	Nervous tissue

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

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

	<ol style="list-style-type: none"> 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 (etc...esters 6. compounds heterocyclic and Alkaloids 7. the on group functional of effect) antibiotics of chemistry The (activity medical 8. (drugs sulfa) compounds Sulfur
<p>ε</p>	<p>BIOCHEMISTRY .D</p> <p>acidsamino Proteins and</p> <ol style="list-style-type: none"> a. .Introduction b. .acids amino of structure and Classification c. .acids amino of curye Titration d. acidsamino Reaction of e. .peptides of activity Biological f. .ofbonds Types g. .bond peptide of properties Important h. and acids amino ofdetermination ‘polypeptides of Naming sequence of polypeptides i. types of different of formation and chain polypeptide of folding The protein j. proteins of levels Structural k. proteins fibrous and Globular l. proteins of function Biological m. protein digestion of <ol style="list-style-type: none"> 4. acids Nucleic a. Introduction b. Nucleotides Nucleosides and c. Classification d. synthesis protein in acid nucleic of Role <ol style="list-style-type: none"> 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

Subject	<i>Medical Physics</i>
Theory	60 hrs
Practice	60 hrs
Units	٦
No	Title
١	body the in and on Force & Measurement and Modeling Terminology
٢	Heat and Cold in Medicine & Physics of the Skeleton
٣	Pressure & Power of the Body Work Energy
٤	Pressure
٥	The Physics of the Lungs and Breathing
٦	Physics of the Cardiovascular System
٧	Electricity Within the Body
٨	Cardiovascular Instrumentation
٩	Medicine Application of Electricity and Magnetism in the
١٠	Sound in Medicine
١١	Physics of the Ear and Hearing
١٢	Light in Medicine
١٣	Physics of Eyes and Vision
١٤	Laser in medicine
١٥	ray-Physics of diagnostic X
١٦	Physics of MRI and CT Scan
١٧	Physics of Nuclear Medicine
١٨	radiation therapy Physics of
١٩	Radiation protection in medicine

Subject	Medical foundations & Terminology																					
Theory	22 hrs																					
Practice	0																					
Units	2																					
No	Title																					
1	Foundations hrs 10 1. and Disease (Health of Concepts the to Course Introductory environment 2 hours 2. Basic terms and concept B 3. Ecology of health E 4. The concept of preventive medicine and revention hours 2 5. The natural history of disease 6. hours 2 environment and health E 7. agent interaction – ost H 8. Epidemiology 9. hours 2 infectious agents acquiring A 10. Diseases Infectious Emerging hours 2																					
2	Medical Terminology hrs 12 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>subject</th> <th>.hrs</th> </tr> </thead> <tbody> <tr> <td>What is medical terminology</td> <td>1</td> </tr> <tr> <td>Forming medical terms</td> <td>1</td> </tr> <tr> <td>Medical terms rules</td> <td>2</td> </tr> <tr> <td>body parts terminology</td> <td>1</td> </tr> <tr> <td>T terminology. I.G</td> <td>1</td> </tr> <tr> <td>nervous system terminology</td> <td>1</td> </tr> <tr> <td>hematological terminology</td> <td>1</td> </tr> <tr> <td>Dermatological terminology</td> <td>1</td> </tr> <tr> <td>terminology Cardiovascular</td> <td>1</td> </tr> </tbody> </table>		subject	.hrs	What is medical terminology	1	Forming medical terms	1	Medical terms rules	2	body parts terminology	1	T terminology. I.G	1	nervous system terminology	1	hematological terminology	1	Dermatological terminology	1	terminology Cardiovascular	1
subject	.hrs																					
What is medical terminology	1																					
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body parts terminology	1																					
T terminology. I.G	1																					
nervous system terminology	1																					
hematological terminology	1																					
Dermatological terminology	1																					
terminology Cardiovascular	1																					

الموضوع	اللغة العربية	
نظري	ثلاثون ساعة	
عملي	صفر ساعة	
الوحدات	أثنان	
ت	الموضوع	عدد الساعات
١	الكلمة	١
٢	الأسماء	١
٣	علامات الأسماء	١
٤	الأفعال	١
٥	علامات الأفعال	١
٦	الحروف وأنواعها	١
٧	المعارف	١
٨	المعرف بأل.	١
٩	الجموع وأنواعها.	١
١٠	جمع المذكر السالم.	١
١١	جمع المؤنث السالم.	١
١٢	جموع التكسير	١
١٣	جموع القلة.	١
١٤	جموع الكثرة	١
١٥	المنثى وعلامات إعرابه.	١
١٦	أبواب الفعل المضارع.	١
١٧	الفعل الثلاثي والرباعي.	١
١٨	الفعل المزيد بحرف وحرفين.	١
١٩	حروف القلقة الصغرى والكبرى.	١
٢٠	الأسم المقصور والمنقوص والممدود.	١
٢١	حروف الغنة.	١
٢٢	همزتي الوصل والقطع.	١
٢٣	حرفي الضاد والطاء.	١
٢٤	رسم الهمزة.	١
٢٥	رسم الألف.	١
٢٦	القصص القرآني.	١
٢٧	قصة يوسف النبي عليه السلام	١
٢٨	قصة أصحاب الكهف	١
٢٩	قصة أصحاب الاخدود	١

Subject	English Language
Theory	30 hrs
Practice	0
Units	2

ENGLISH IN MEDICINE (CURRECULUM)

- ٣ hrs ١. Taking a history
- 1- Asking basic questions
 - 2- Taking notes
 - 3- Reading skills: Scanning a case history
 - 4- William Hudson :Case history

- 1- Asking about systems
- 2- Asking about symptoms
- 3- Reading skills: Using a pharmacology reference
- 4- William Hudson :Case history

3. hrs 3 **Examining a patient**

- 1- Giving instructions
- 2- Understanding forms
- 3- 1 Reading articles :Reading skills
- 4- William Hudson :Case history

4. hrs 4 **Special examinations**

- 1- explaining and reassuring 4Instructing
- 2- and prompting encouraging 4Rephrasing
- 3- 1 Reading articles :Reading skills
- 4- William Hudson :Case history

5. **Investigations.** hrs 3

- 1- discussing investigations Explaining and
- 2- Using medical documents
- 3- 2 Reading articles :Reading skills
- 4- William Hudson :Case history

6. hrs 3 **Making a diagnosis**

- 1- Discussing a diagnosis
- 2- Explaining a diagnosis
- 3- 3 Reading articles :Reading skills
- 4- William HudsonW :Case history

7 **Treatment.**

hrs 4

- 1- Medical treatment
- 2- Physiotherapy
- 3- Surgical treatment.
- 4- Reading skills: Using an online database

Human Rights

عدد الساعات الاسبوعية			اسم المادة		
عدد الوحدات	م	ع	ن	باللغة العربية	باللغة الانكليزية
٢	١	-	٢	حقوق الانسان	Human Rights

الاسبوع	المادة النظرية	عدد الساعات
١	مفهوم حقوق الانسان .التعريف الفقهي والقانوني لحقوق الانسان خصائص حقوق الانسان	2
٢	حقوق الانسان في الشرائع السماوية. الشريعة اليهودية والمسيحية. حقوق الانسان في الشريعة الاسلامية	٢
٣	حقوق الانسان في الحضارات القديمة . حقوق الانسان في الحضارة اليونانية و الرومانية حقوق الانسان في حضارة وادي النيل و وادي الرافدين	٢
٤	أنواع حقوق الانسان حقوق الانسان الاساسية وغير الاساسية . حقوق الانسان الفردية والحقوق الجماعية	٢
٥	الإعلان العالمي لحقوق الانسان تعريف الاعلان العالمي لحقوق الإنسان. مضمون الاعلان العالمي لحقوق الانسان. القيمة القانونية للإعلان العالمي لحقوق الانسان. أهداف الاعلان العالمي لحقوق الانسان أهمية الاعلان العالمي لحقوق الانسان	٢
٦	ضمانات التشريعية لحقوق الانسان. ضمانات حقوق الانسان في التشريعات العراقية تقسيم الحقوق و الحريات	٢
٧	الضمانات الدستورية لحقوق الانسان أولاً: الضمانات الدستورية. ١- الدستور. ٢- مبدأ سيادة القانون. ٣- مبدأ الفصل بين السلطات. ثانياً: الضمانات القضائية. ١- حق التقاضي . ٢- الرقابة القضائية على دستورية القوانين. ٣- الرقابة على أعمال السلطة التنفيذية.	٢
٨	مفهوم الديمقراطية تعريف الديمقراطية الديمقراطية القديمة (أثينا). الديمقراطية الحديثة.	٢
٩	اركان الديمقراطية وصورها. اولا : اركان الديمقراطية ثانياً: صور الديمقراطية ١ – الديمقراطية المباشرة . ٢ – الديمقراطية شبه المباشرة ٣ – الديمقراطية النيابية.	٢
١٠	خصائص الديمقراطية. وأهدافها. خصائص الديمقراطية. أهداف الديمقراطية.	٢
١١	طرق نشوء الديمقراطية. اولا: الطريق السرية ثانياً : طريقة الفرض ثالثاً : طريقة الثورة.	٢

٢	خصائص النظام الديمقراطي. اولاً : وجود دستور. ثانياً : سيادة القانون. ثالثاً : حرية التعبير وابداء الرأي. رابعاً : حرية تكوين الاحزاب السياسية. خامساً : استقلال السلطة القضائية.	١٢
٢	آليات إسناد السلطة في النظم الديمقراطية. اولاً: مفهوم الانتخاب. ثانياً : أساليب الانتخاب. ١ – الانتخاب المباشر والانتخاب غير المباشر. ٢ – الانتخاب الفردي والانتخاب بقائمة. ثالثاً : الضمانات الكفيلة بحماية الانتخاب. ١ – أن يكون الانتخاب سري . ٢ – المساواة في ابداء الرأي . عدم استعمال وسائل القسر والإكراه.	١٣
٢	محاسن الديمقراطية وأهدافها. أولاً: محاسن الديمقراطية . ثانياً : أهداف الديمقراطية.	١٤
٢	مساوئ الديمقراطية. إعادة سريعة لما تناولناه في موضوع حقوق الإنسان .	١٥

Computer Sciences

hrs ٣٠ : Theory

hrs ٦٠ :Practice

٤ :Units

COURSE SYLLABUS

Lecture No	Title of the Subject
Lec 01 - 02	Welcome and Introduction to course material
Lec 03-04	Chapter One: Computer Fundamentals <ul style="list-style-type: none"> • What is Computer • Generations Computer • Data and Information • Features of Computer • Computer Components • Types of Computers
Lec 05-07	Chapter Two: Computer Components <ul style="list-style-type: none"> • Computer Parts • Hardware • Computer Ports • points-Key • Number Systems • Software • Programming languages • Personal Computer PC • Features of Personal Computer

Lec08-13 Chapter Three: Introduction to Operating System
<ul style="list-style-type: none"> • OS Definition • Functions of the Operating System • Goals of OS • Classification of Operating Systems • Types of Operating Systems • Microsoft Windows • .get started • Control Panel • Folders and Files Managements
Lec 14 Chapter Four: Microsoft Word
<ul style="list-style-type: none"> • Get started and window elements • Basic Operations • Formatting • Editing and layout • Insert tables and images
Term Exam-Mid
Microsoft PowerPoint :Chapter Five ٢٠-١٥ Lec
<ul style="list-style-type: none"> • Get started and window elements • Basic Operations • and charts ,Graphics ,Formatting • How to prepare scientific presentations
Lec 21-25 Chapter Six: Microsoft Excel
<ul style="list-style-type: none"> • Get started and window elements • Basic Operations • Functions
<ul style="list-style-type: none"> • Formatting • charts and ,Graphics
Lec 26 Chapter Seven: Computer Safety and software licenses
Lec 27-29 The Internet and Communication
Review ٣٠ Lec

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SECOND YEAR

2025-2024

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 b of Catabolism -a cycle Acid Citric c- shunt monophosphate Hexose d- -e Metabolism Fructose and Galactose Metabolism Disaccharides -Glycogen Metabolism g-f Gluconeogenesis 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	Acid Metabolism Amino
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 ,PNS,CNS , tissue Nervous related terms - cells Neuroglial
2	osteology ,skull - 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	.associated structures nerves and ,vessels ,muscles - , scalp
19	Neck &Head fossa temporal fossainfratemporal
20	Nec k - anatomy surface - fascia superficial
21	neck of thetriangles posterior triangle vessels nerves and associated structures ,muscles -
22	triangle anterior associated and nerves vesses ,muscles - . structures Thyroid gland

۲۳	arteries and nerves of the neck main veins . cervical plexuses
۲۴	Face structures muscles associated and vessels nerves muscles - mastication of
۲۵	parotid gland
۲۶	submandibular region
۲۷	oral cavity
۲۸	nasal cavity paranasal sinuses
۲۹	.associated structures muscles -Larynx
۳۰	and related structures Ear
۳۱	Abdomen wall abdominal anterior structures and associated muscles wall abdominal posterior and associated structures muscles
۳۲	inguinal canal inguinal hernia spermatic cord
۳۳	Peritoneum arrangement of abdominal viscera
۳۴	gastrointestinal tract esophagus
۳۵	Stomach
۳۶	intestine small intestine large associated structures lymphatics and nerves blood vessels
۳۷	liver and biliary system
۳۸	Spleen
۳۹	Pancreas
۴۰	retroperitoneal structures kidney suprarenal gland
۴۱	lumbar plexuses
۴۲	:Pelvis Pelvic skeleton and bony pelvis
۴۳	contents of pelvic diaphragm fascia visceral pelvic
۴۴	pelvic viscera in male
۴۵	pelvic viscera in female
۴۶	Perineum Urogenital diaphragm Contents of male genital triangle Contents of urogenital diaphragm in male and female

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

Subject	Histology
Theory	60 hrs
Practice	60 hrs
Units	٦
No	Title
١	Vascular system
٢	Introduction
٣	system Blood vascular
٤	Capillaries
٥	(continuous and fenestrated) Type of capillaries
٦	Large arteries medium sized arteries small Arteriole) . Arteries (elastic arteries
٧	(Atherosclerosis) . Age changes in arteries
٨	(large vein vein sized medium vein small Venule) . Veins –
٩	Vasa vasorum
١٠	The skin and its appendages
١١	Lymphatic system
١٢	Heamopoiesis
١٣	Digestive system
١٤	Respiratory system
١٥	Respiratory membrane
١٦	The endocrine system
١٧	The urinary system
١٨	(nephron The) . passages of the kidney excretory The
١٩	Female reproductive system
٢٠	Mammary glands
٢١	system Male Reproductive
٢٢	Special sense organs

Subject	Physiology
Theory	150 hrs
Practice	60 hrs
Units	۱۲
No	Title
۱	general physiology Subject and & physiology Introduction to significance Methods of physiological research
۲	Physiology and other sciences
۳	(Cellular organization)function &Cell structure
۴	Homeostasis †body water functions†Body fluids
۵	Body water &Edema & †dynamics † composition †Body fluids .Body fluid dynamics †functions
۶	†Introduction type of the muscle:Physiology of the muscles motor unit †structure †Skeletal muscles
۷	†contraction muscle † muscle of response Mechanical† Excitability
۸	Summation of muscle †muscle fatigue †contraction Type of contraction
۹	Effect of †Effect of two muscle stimuli †Simple muscle twitch repeated stimulation
۱۰	Muscle tone †All or none Law †Tetanus &Clonus
۱۱	CNSPhysiology of
۱۲	† limbic system &hypothalamus Physiology of the
۱۳	The brain stem and reticular formation
۱۴	loss of consciousness &sleep †Wakefulness
۱۵	sensory functions &motor .Cerebral control function
۱۶	memory †speech †Conditioned reflexes
۱۷	EEG †Corticospinal tracts
۱۸	†adequate stimulus &the stimulus †definition & †Introduction :Sensation Classification of sensory receptors electrical and ionic .sensory receptors events in receptors
۱۹	representation cortical and † field receptive the † unit sensory The of role†the sensory pathways †of sensory information Coding †contractions muscular proprioceptors in reflex and voluntary
۲۰	inverse & † organs tendon Golgi The† reflex (tendon) stretch The muscles tone effect &Gama efferent activity †stretch
۲۱	†Superficial .deep & visceral sensation † touch pressure† pain sensations †warmth†cold †vibration &sensation
۲۲	point-set &temperature Normal †Body temperature regulation
۲۳	shivering thermo genesis -non & †shivering †Heat production
۲۴	hypothalamic regulations of body temperature † Heat loss Hypothermia &Fever Functional anatomy of †Equilibrium &Hearing :Special Senses

	properties of hearing system the ear
۲۵	Theories of hearing
۲۶	Vestibular function
۲۷	pathways & smell receptors –test & Smell
۲۸	Physiology of olfaction
۲۹	pathways & test receptor organs Physiology of the test
۳۰	
۳۱	Functional anatomy of the eye :Vision
۳۲	functions & Blood composition
۳۳	hemoglobin variants & hemoglobin RBCs
۳۴	anemia & metabolisms Iron
۳۵	hemolytic anemia & RBC destruction
۳۶	classifications & WBC morphology
۳۷	Specific functions of different WBC
۳۸	typing –HLA & allergy & The immune system
۳۹	blood coagulations & Homeostasis The platelets
۴۰	blood transfusions & Blood group
۴۱	the fibrinolytic activity of functions & The plasma compositions plasma
۴۲	Functional anatomy of the kidney
۴۳	regulation of renal blood flow-Auto
۴۴	GFR & Mechanisms of glomerular filtration
۴۵	tubule secretion in the & absorption -Re
۴۶	Effect of water loss Effect of excess intake
۴۷	+Regulation of K +absorption of N-Regulation of tubular re balance
۴۸	Diuretics
۴۹	Urea clearance Creatinine clearance balance base -acid of regulation Renal & PH & Ion Hydrogen The
۵۰	Renal function test
۵۱	+H +H & PH of concept. base & acid of chemistry Fundamental Hasselbach equation -s'Henderson & ion of body fluids
۵۲	Carbonic acids Body buffer +elimination of H & Generations distribution of body buffer system system
۵۳	abnormal sounds Mechanisms of heart sounds
۵۴	anatomical review & Introduction to CV physiology
۵۵	conducting system Specialized & The heart coronary circulation tissue
۵۶	Cardiac cycle
۵۷	Ultra action potential contraction structure myocardium The of role and bases Ionic .muscle to skeletal comparison structure with coupling contraction and excitation contraction muscle
۶۰	The mechanical properties of the cardiac muscle)law -Sterling

٦١	types of muscle ·relationship (tension -length) Starling law of the heart Action .The electrical activity of the heart .(contraction The refractory .first response and slow response·potential
٦٢	.Pacemaker cells and pacemaker action potential .periods wave and T &·QRS ·P · axis electrical ·ground -General back-ECG significance their clinical
٦٣	(syndrome Adam -Stock ·blocks)Cardiac arrhythmias -ECG
٦٤	conduction system Cellular & ·myocardium ·Action potential bases of cardiac arrhythmias
٦٥	cardiac function curve methods of measuring ·put-Cardiac out
٦٦	put Factors regulating cardiac output-Cardiac out
٦٧	Hypotension & shock Transient ·hypotension prolonged .physiological changes-hypotension and its patho
٦٨	Hypertension Volume loading · mechanism Vasoconstrictor mechanism Secondary ·hypertension primaryhypertension (essential)
٦٩	Heart Failure
٧٠	Cardiomyopathy
٧١	Ischemic heart disease
٧٢	Exercise physiology
٧٣	·s'Ohm ·s'Poiseuille ·hematocrit & ·blood volume ·Circulation capacitance ·conductance ·laplace Laws Peripheral resistance
٧٤	.Reynolds numbers ·laminar and turbulent flow ·Compliance intrinsic)auto regulation control ·Local regulation of blood pressure Regulation of BP (extrinsic)neural control & (control long term control & short·
٧٥	Systolic BP · Diastolic ·BP pulse pressure · Mean · Bp s sounds'Korotkov &measurement of BP
٧٦	there functions General venous pressure and its &The veins the filling pressure ·reference point ·Venous pump .regulation
٧٧	Respiratory physiology functional anatomy
٧٨	Pulmonary function test &capacities &Lung volume
٧٩	Mechanics of breathing muscles of respiration · pressure changes during respiration
٨٠	Airways resistance ·compliance ·Expansion of the lung
٨١	resistance of pulmonary &pressure ·Pulmonary circulations blood vessels
٨٢	perfusions &distribution of ventilation ·Alveolar ventilation
٨٣	diffusion capacity &Exchanges of gases
٨٤	by blood $\dot{V}CO_2$ &· $\dot{V}O_2$ Transport of O
٨٥	Control of ventilation
٨٦	& nervous control· motility · FunctionsGeneral principles of GI blood circulation
٨٧	GI hormones ·Introduction to the gastrointestinal tract

٨٨	gas, salivary , Secretory functions of the elementary tract .secretions pancreatic , tric
٨٩	, intestine small, bile , Secretory function of the alimentary tract large intestine secretions
٩٠	absorption & digestion , Ingestion , Basic principles of GI
٩١	intestine large , intestine small , stomach , in GI tract Absorption
٩٢	liver functions & Bile salt synthesis
٩٣	liver function test , Jaundice
٩٤	Physiology of , DU , swallowing disorders , GI disorders , malabsorption
٩٥	paralysis of defecation in spinal cord , Diarrhea , Constipation injuries
٩٦	gastrointestinal obstruction , vomiting , Nausea
٩٦	thermal and chemical changes , The sliding filament theory during muscle contraction
٩٧	, pituitary The , Introduction , Physiology reproductive & Endocrine clinical , neurohypophysis , adeno hypophysis , hypothalamic hormones correlate
٩٨	clinical , metabolism iodine , rate metabolic the , thyroid The correlate
٩٩	, bone physiology & , metabolism calcium , parathyroid The clinical correlate
١٠٠	and the medulla , the cortex , The adrenal glands
١٠١	ovary the , the testes , The gonads
١٠٢	The pancreas . The organs with endocrine functions
١٠٣	the ovary , the testes , The gonads
١٠٤	lactations & , pregnancy , Reproduction
١٠٥	regulations Renal , balance base – acid of regulation Respiratory base balance – of acid
١٠٦	abnormalities base - Acid
١٠٧	of low Effect , Physiology diving sea Deep , Physiology altitude High . body the Effect of accelerated force on , pressure on body ٢O
١٠٨	space physiology & Problems of temperature in aviation
١٠٩	space weightlessness Radiation at the high altitude and
١١٠	Echocardiography
	منهاج مادة جرائم البعث
	الفصل الاول :-
	جرائم نظام جرائم البعث وفق قانون المحكمة الجنائية العراقية ٢٠٠٥ م :-
	١-١ . مفهوم الجرائم واقسامها .
	١-١-١ . تعريف الجريمة لغة واصطلاحاً .

- ٢-١-١. اقسام الجرائم .
- ٢-١. جرائم نظام البعث وفق توثيق قانون المحكمة الجنائية العراقية العليا عام ٢٠٠٥ م .
- ١-٢-١. انواع الجرائم الدولية .
- ١-٢-٢. القرارات الصادرة من المحكمة الجنائية العراقية .

الفصل الثاني :-

الجرائم النفسية والاجتماعية واثارها ، وبرز انتهاكات النظام البعثي في العراق :-

- ٢-١. الجرائم النفسية .
 - ٢-١-١. اليات الجرائم النفسية .
 - ٢-١-٢. اثار الجرائم النفسية .
- ٢-٢. الجرائم الاجتماعية .
 - ٢-٢-١. عسكرة المجتمع .
 - ٢-٢-٢. موقف النظام البعثي من الدين .
- ٢-٣. انتهاكات القوانين العراقية .
 - ٢-٣-١. صور انتهاكات حقوق الانسان وجرائم السلطة .
 - ٢-٣-٢. بعض قرارات الانتهاكات السياسية والعسكرية لنظام البعث .
 - ٢-٣-٣. اماكن السجون والاحتجاز لنظام البعث .

الفصل الثالث :-

الجرائم البيئية لنظام البعث في العراق :-

- ٣-١. التلوث الحربي والاشعاعي وانفجار الالغام .
- ٣-٢. تدمير المدن والقرى (سياسة الارض المحروقة)
- ٣-٤. تجريف بساتين النخيل والاشجار والمزروعات .

الفصل الرابع :-

جرائم المقابر الجماعية :-

- ٤-١. احداث مقابر الابداء الجماعية المرتكبة من النظام البعثي في العراق .
- ٤-٢. التنصيف الزمني لمقابر الابداء الجماعية في العراق للمدة ١٩٦٣ - ٢٠٠٣ .

Ministry of Higher Education and Scientific Research

UNIVERSITY OF MISAN

College Of Medicine



Syllabus of Medical College Curriculum

THIRD YEAR

2025-2024

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

۲۷	(Treponema & ‘Spirillum ‘Borelli)Spirochete bacteria
۲۸	Intracellular parasitic bacteria .Part III
۲۹ ۳۰	Chlamydia spp
۳۱	Mycoplasma spp
۳۲	Rickettsia spp
۳۳	Body fluids & stool samples ‘Urine
۳۴	Clinical immunology & Basic .Part IV
۳۵	.Introduction to immune system
۳۶	Cellular basic of immune system ‘antibody & Antigen
۳۷	regulation of B cell ‘generation of B cells ‘B cell development . negative selection of B cells & positive ‘development
۳۸	positive selection of T ‘generation of T cells ‘T cell development .cells and negative selection of T cells
۳۹	Acquired immunity & Innate
۴۰	cascades and regulation of ‘The Complement system complement function
۴۱	. inflammation Immune system cells migration and
۴۲	Hypersensitivity reactions
۴۳	Immunological tolerance
۴۴	Transplantation
۴۵	Autoimmunity diseases
۴۶	Tumor immunity
۴۷	Vaccination
۴۸	Immunotherapy
۴۹	Infection and immunity
۵۰	Medical Virology .Part V
۵۱	Virology General –A
۵۲	Classification of virus & General properties
۵۳	Replication of virus and genetics
۵۴	effect of virus on host cells ‘Cultivation of viruses
۵۵	(infection viral slow and ‘latent ‘chronic ‘acute) Pathogenesis Viral
۵۶	antiviral ‘interferon :infections Prevention and treatment of viral chemotherapy and viral vaccines
۵۷	Systemic virology –B
۶۰	Parvo virus
۶۱	Pox virus & Adeno

٦٢	familyHerpes virus
٦٣	Orthomyxo virus family
٦٤	Paromyxovirus family
٦٥	Picorna virus
٦٦	hepatitis Viral
٦٧	Viral gastroenteritis
٦٨	Arbovirus
٦٩	Oncogenic virus
٧٠	infection (HIV)Retro virus
٧١	SARS ‘corona virus ‘Reo
٧٢	Medical Mycology : .Part VI
٧٣	general properties of fungi &Introduction
٧٤	Classification of fungi &Structures
٧٥	Superficial mycosis
٧٦	Subcutaneous mycosis &Cutaneous
٧٧	fungiOpportunistic & Systemic

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

۱۲	Multiceps multiceps
۱۳	(flukes) Trematodes-۲
۱۴	gigantic .F & Fasciola hepatica
۱۵	Opisthorchis felinus & Clonorchis sinensis
۱۶	flukes Intestinal and lung
۱۷	Schistosoma haematobium mansoni .S japonicum .S
۱۸	<u>Part III</u>
۱۹	3-: Nematodes General consideration a- lumbricoides Ascaris b- -c vermicularis Enterobius trichiuria Trichuris d- Trichostrongylus e- -Strongloides stercoralis f -g duodenale Ancylostoma americanus Necator -i migrant larva visceral and Cutaneous -h spiralis Trichinella : The filariae -j 1 bancrofti Wuchereria – 2 malayia Brugia – 3 perstans Mansonella – 4 ozzardi .M – 5 volvulus Onchocerca - 6 loa loa – 7 medinensis Dracunculus –
۲۰	ogy Medical Entomol :Part IV

Subject	General surgery
Theory	۳۰ hrs
Practice	۰
Units	۲
No	Title
۱	Wound healing and repair .a
۲	Metabolic response to trauma .b
۳	(specific-non&specific)Surgical infections .c
۴	hospital infection&disinfection ‘Sterilization .d
۵	electrolytes and acid base balance ‘Fluids
۶	Shock .a
۷	Accidents and life support .b
۸	Hemorrhage
۹	Blood transfusion and complications
۱۰	Nutrition Surgical
۱۱	sinuses and ulcer ‘Fistula
۱۲	Burn
۱۳	Parasites of surgical importance
۱۴	Principles of skin Repair
۱۵	Ischemia
۱۶	Gangrene
۱۷	Foot unilateral limb edema&Ulcers of the Leg
۱۸	Venous disorders of the limbs
۱۹	. Lymphatic disorders
۲۰	

Subject	edicineM yFamil
Theory	३० hrs
Practice	३० hrs
Units	३
No	Title
१	Introduction to medical statistics
२	Summarization and presentation of data
३	Measurement of central location
४	variabilityMeasurement of
०	Introduction to sampling
६	The normal distribution and its characteristics
७	The confidence interval and limit
८	:significanceof Tests <ul style="list-style-type: none"> ▶ test the Z ▶ t the test ▶ the χ^2 test
९	statistics of application an as diagnosis community of concept The measuring population health in
०	Definition of relevant terms
१०	and metabolismNutrient requirements
११	infectionNutrition and
१२	Nutrition of specific groups of population
१३	Nutritional surveys and assessment of nutritional status of population
१४	Selected Nutritional diseases
१०	Diet therapy and nutritional rehabilitation

Subject	Pathology
Theory	۱۲۰ hrs
Practice	۱۲۰ hrs
Units	۱۲
No	Title
۱	<p>Introduction pathology of branches & Definition De diseases Causes and etiology of diseases of nature and Pathogenesis disease of changes Morphological complications Prognosis and</p>
۲	<p>Adaptations and death cell injury Cell & stress to response cellular of Overview stimuli noxious .Cellular adaptations to stress Hypertrophy- Hyperplasia- Atrophy- Metaplasia Causes of - injury cell The morphology of cell and tissue injury Reversible injury- Necrosis- Patterns of tissue necrosis- injury to responses Subcellular- injury Mechanisms of cell injury and necrosis Examples of irreversible cell Coagulative necrosis- Caseous necrosis- Liquefactive necrosis- Fatty necrosis- Fibrinoid necrosis- Gangrenous necrosis - Apoptosis Intracellular accumulations Fatty change- and Exogenous) Pigmentation- (endogenous calcification Pathological-</p>
۳	<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- events Leukocytes cellular- Leukocyte recruitment- Margination and rolling- Adhesion and transmigrations- Chemotaxis- Leukocytes activation- Phagocytosis- Killing and degradation of microbes- Outcomes of Acute Inflammation- acute of patterns Morphological- Inflammation Inflammation Serous- Fibrinous Inflammation- Inflammation (purulent)Suppurative - Catarrhal inflammation- Ulceration- Gangrenous Inflammation- Pseudomembranous Inflammation- Chemical Mediators- mediatorsCell derived- Plasma protein derived mediators- flammationChronic In- and cells inflammatory Chronic- mediators Granulomatous inflammation- chronic of pattern Morphological- inflammation Systemic effects of Inflammation
ε	<p>Healing and Fibrosis ·Regeneration :Tissue Repair</p> <ul style="list-style-type: none"> .Overview of tissue repair Regeneration- The control of cell proliferation- cyclecell The- Proliferative capacities of tissues- Growth factors- and cellmatrix interactions (ECM)Extracellular matrix - .Roles of extracellular matrix- Components of extracellular Matrix-

	<p>Repair by connective tissue- 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 Factors Aspects Pathologic Healing Wound Affecting Local Factors- Systemic Factors-</p>
<p>o</p>	<p>Microbial Infections infections microbial to Introduction mechanisms defense specific-Non Categories of infectious agents Routes infections of Viral .disease can cause microorganism How infections Introduction- cellular at injury viral of Mechanisms- .level Transient viral infection- infection Latent viral- Slow viral infection- infection viral \N\H- Bacterial infections infections Pathogenesis of bacterial- Acute bacterial infections- Acute bacterial infections general types- Common pyogenic bacteria- Gangrene Definition - types and Chronic bacterial infections- tuberculosis Mycobacterium - Leprosy- Syphilis- Fungal infections-</p>
<p>٦</p>	<p>Immunopathology :Introduction &Cell immunity adaptive & Innate system immune tissue of responses immune normal of Over review :Hypersensitivity diseases</p>

	<p>Types of Hypersensitivity diseases- HSRI Type- Type II HSR- HSR III Type- HSRIV Type- transplants of Rejection- immune disease-Auto- Immunodeficiency diseases- Primary Immunodeficiency- Secondary immunodeficiency- Amyloidosis-</p>
<p>v</p>	<p>Disturbances of blood flow and body fluid Introduction and types Hyperemia Edema Hemorrhage congestion and Shock Cardiogenic shock- 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>
<p>^</p>	<p>• Medical Genetics Mutations (Diseases caused by single gene defects) Mendelian disorders 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- (Down syndrome) Trisomy - sex involving disorders Cytogenetic- chromosomes Klinefelter syndrome- Turner syndrome-</p>

	<p>of patterns atypical with disorders gene Single inheritance</p> <p>syndrome -Fragile X :Triplet repeat mutation- mitochondrial genes of mutation by caused Diseases- and Willi-Prader :imprinting Genomic- syndromes Angelman</p> <p>Diagnosis anomalies Congenital diseases genetic of</p> <p>Florescence in situ hybridization- Molecular detection of genetic diseases- Indications for genetic analysis-</p>
9	<p>Neoplasia</p> <p>Definition</p> <p>Nomenclature</p> <p>Hamartoma Teratoma</p> <p>.Characteristics of benign and malignant neoplasms</p> <p>dysplasia &Atypia -</p> <p>Tumor grade and stage- metastasis &Invasion -</p> <p>metastasis &Mechanism of invasion -</p> <p>.Tumor angiogenesis-</p> <p>Kinetic of tumor cell growth-</p> <p>tumor -anti antigens Tumor immunity Tumor .mechanisms effector</p> <p>-Carcinogenesis .immunosurveillance & Tumor- of basis Molecular viral and radiation †Chemical .cancer</p> <p>.clinical effect of neoplasia The</p>
10	<p>Cardiovascular systemThe Blood Vessels</p> <ul style="list-style-type: none"> - 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 (Temporal)cell Giant

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

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

	<p>Tumors- Mesothelioma- Benign- Malignant- .Secondary tumor-</p>
۱۲	<p>system The Hematopoietic Red cell Disorders - Hemorrhage:of blood loss Anemia - Anemia Hemolytic Hereditary spherocytosis- anemia Sickle cell- - Thalassemia PD deficiency γG- Paroxysmal nocturnal hemoglobinuria- Immuno-hemolytic anemia- .Hemolytic anemia from mechanical trauma- Anemia of diminished erythropoiesis- Polycythemia White - Disorders cell - cells white of disorders neoplastic-Non - cells white of proliferation Neoplastic - Leukaemias disorders Myeloproliferative- cell disorders Plasma Multiple myeloma - Bleeding disorders Ideopathic thrombocytopenic purpura- Hemophilia- Willbrand disease-Von-</p>
۱۳	<p>Lymphoreticular system Reactive lymphadenopathy - lymphadenitis specific-non Acute - lymphadenitis specific-non Chronic - lymphadenitis Granulomatous - diseases neoplastic-non Miscellaneous lymphadenopathy Neoplastic s lymphoma 'Hodgkin- - lymphoma s'Hodgkin-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- Splénomegaly-</p>

	<p>Disorders of the Thymus</p> <ul style="list-style-type: none"> - Hyperplasia Thymic - Thymoma
١٤	<p>Oral cavity and the Gastrointestinal Tract</p> <p>Oral cavity</p> <p>Ulcerative and inflammatory lesions-</p> <p>Aphthous 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 s'Barrett - .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>diseases' Crohn-</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 lymphoma -Gastro</p> <p>and Carcinoid Appendix</p> <p>Appendicitis-</p> <p>Appendicular tumors-</p>
١٥	<p>pancreas Gall bladder and ،Liver</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- Pancreas Tumors- Acute pancreatitis- Chronic pancreatitis- Tumors- Tumors of exocrine pancreas- Tumors of endocrine pancreas-</p>
<p>۱۶</p>	<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- (post streptococcal) Acute post infections - Glomerulonephritis- (Berger disease) IgA nephropathy - - nephritis Hereditary -) Rapidly progressive glomerulonephritis (Crescentic Chronic glomerulonephritis- Diseases affecting tubules and interstitium Tubulointerstitial nephritis-</p>

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

Neoplasia and Intraepithelial Vulvar grade High-
 carcinoma
 .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-
 tumor Yolk sac-
 tumors stromal Sex cord-
 tumor Granulosa cell-

	<p>fibroma -Thecoma- Leydig cell tumors -Sertoli- - Metastatic .s tumor'Krukenberg- (pregnancy)Diseases of placenta - pregnancy Ectopic - diseasetrophoblastic Gestational complete and partial 'mole Hydatidiform- Invasive Mole- Choriocarcinoma-</p>
<p>18</p>	<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 Breast- carcinoma Risk factors- Classification- lobular 'ductal :In situ carcinoma - carcinoma Invasive- (subtypes &classical)Ductal carcinoma- Tubular carcinoma- Prognosis of breast carcinoma- Phyllodes : breast the of tumors Miscellaneous lymphoma 'tumor breast male Tumors of</p>
<p>19</p>	<p>System Male genital Testicular neoplasms Germ cell tumor- - Variants - Seminoma - seminomatous Non Teratomas- Embryonal carcinoma- Yolk sac tumor-</p>

	<p>Choriocarcinoma-</p> <ul style="list-style-type: none"> - tumor germ cell Mixed - tumor stromal Sex cord - tumor cell Leydig-Sertoli <p>Mixed testicular tumor-</p> <ul style="list-style-type: none"> - lymphoma Testicular <p>Prostate</p> <p>Hyperplasia Prostatic-</p> <p>Prostatic carcinoma-</p>
۲۰	<p>and skeletal muscles †Joints †Bones</p> <p>bone Diseases of</p> <p>Infections of bone-</p> <p>Pyogenic osteomyelitis-</p> <p>Tuberculous osteomyelitis-</p> <ul style="list-style-type: none"> - osteomalacia and rickets deficiency D Vitamin - bone of disease s'Paget - tumors Bone <p>osteoid †osteoma :forming tumors Bone-</p> <p>†osteoma</p> <p>osteogenic sarcoma</p> <ul style="list-style-type: none"> - :tumors forming Cartilage <p>Osteochondroma-</p> <p>Chondroblastoma-</p> <p>Miscellaneous tumors-</p> <p>Ewing sarcoma-</p> <p>Giant cell tumor-</p> <p>Metastatic tumors of bone-</p>
۲۱	<p>The Endocrine System</p> <p>Pituitary</p> <p>Hyperpituitarism and Pituitary Adenomas-</p> <p>Prolactinomas-</p> <p>Growth Hormone producing Adenomas-</p> <p>Corticotroph Cell Adenomas-</p> <p>Neoplasms Pituitary Anterior Other-</p> <p>Hypopituitarism-</p> <p>Syndromes Posterior Pituitary-</p> <p>Thyroid</p> <p>Hyperthyroidism-</p> <p>Hypothyroidism-</p> <p>Thyroiditis-</p> <p>thyroiditis (Hashimoto) Chronic lymphocytic -</p> <p>(de Quervain) Sub acute granulomatous -</p> <p>Sub acute lymphocytic thyroiditis-</p> <p>Other forms of thyroiditis-</p> <p>Graves diseases-</p> <p>Diffuse and multinodular goiter-</p>

	<p>Thyroid Neoplasms of the-</p> <p>Adenomas-</p> <p>Carcinomas-</p> <p>Papillary Carcinoma-</p> <p>Follicular Carcinoma-</p> <p>Medullary Carcinoma-</p> <p>Carcinoma Anaplastic-</p> <p>Parathyroid Glands</p> <p>Hyperparathyroidism-</p> <p>Primary Hyperparathyroidism-</p> <p>Secondary Hyperparathyroidism-</p> <p>Hyperparathyroidism-</p> <p>Adrenal Cortex</p> <p>Adrenocortical hyperfunction-</p> <p>(hyperadrenalism)</p> <p>(Cushing syndrome) Hypercortisolism -</p> <p>Hyperaldosteronism-</p> <p>Adrenogenital syndromes-</p> <p>Adrenal insufficiency-</p> <p>Acute adrenocortical insufficiency-</p> <p>Addison) insufficiency adrenocortical Chronic-</p> <p>(disease</p> <p>neoplasms Adrenocortical-</p> <p>Medulla Adrenal</p> <p>Pheochromocytoma-</p> <p>neoplasm neuronal other and Neuroblastoma-</p> <p>Syndromes Neoplasia Endocrine Multiple</p> <p>1 type Neoplasia Endocrine Multiple-</p> <p>2 type Neoplasia Endocrine Multiple-</p>
<p>२२</p>	<p>nervous system Cells of the The central and peripheral nervous system</p> <p>Neurons-</p> <p>Astrocytes-</p> <p>Oligodendrocytes-</p> <p>Ependymal cells-</p> <p>Microglia-</p> <p>Edema and hydrocephalus</p> <p>Cerebral edema-</p> <p>Hydrocephalus -</p> <p>Vascular diseases</p> <p>encephalopathy ischemic-hypoxic Global-</p> <p>Infarcts-</p> <p>hemorrhage Intracranial-</p> <p>Primary brain parenchymal hemorrhage-</p> <p>subarachnoidal and Saccular aneurysm-</p> <p>hemorrhage</p>

Central nervous system trauma Epidural hematoma- Subdural hematoma- Infections of the nervous system Leptomeningitis- leptomeningitis Acute purulent- meningitis(viral)Acute lymphocytic - Chronic meningitis- (encephalitis)Parenchymal infections - Brain abscess- Viral encephalitis- Neoplasms of the central nervous system (Gliomas)Primary neuroglial tumors- Astrocytomas- Oligodendrogliomas- Ependymomas- neoplasmsPrimitive neuroepithelial- Meningiomas- Metastatic neoplasms-
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Subject	Internal Medicine
Theory	40 hrs
Practice	60 hrs
Units	0
No	Title
1	Introduction
2	Basic nutrition
3	Malnutrition
4	support Nutritional
5	vitaminssoluble Water
6	Fat soluble vitamins
7	Obesity
8	Metabolic diseases
9	Hyperuricaemia
10	haemochromatosis 's disease'sonlWil
11	Amyloidosis
12	galactosaemia 'Porphyrias
13	acid base balance &Introduction to electrolytes
14	water disturbance & Sodium
15	hyperkalemia &Hypokalemia
16	Acid base balance
17	alkalosis 'Metabolic acidosis
18	alkalosis 'acidosisRespiration
19	Mixed acid base disturbance
20	Syndrome of inappropriate ADH secretion
21	Immune system
22	deficiency Immune
23	immune diseases-auto &Inflammatory response
24	Allergy
25	rejection &Transplantation
26	Introduction to infectious diseases
27	Leishmaniasis
28	Parasitic infections
29	Cholera
30	Giardiasis
31	Malaria
32	Toxoplasmosis
33	Amebiasis
34	Tetanus
35	Leprosy
36	Plague
37	Viral hemorrhagic fever
38	Pandemic influenza

۳۸	۱۹-COVID
۳۹	Schistosomiasis
۴۰	Hydatid disease
۴۱	Intestinal tapeworm
۴۲	Nematodes or roundworms
۴۳	Kala azar
۴۴	Enteric fever
۴۵	Brucellosis
۴۶	HIV
۴۷	sepsis
۴۸	PUO
۴۹	Dysphagia and dyspepsia
۵۰	Diarrhea and constipation
۵۱	Weight loss

Subject	Pharmacology
Theory	90 hrs
Practice	60 hrs
Units	8
No	Title
1	Pharmacokinetics (General Pharmacology
2	Pharmacokinetics
3	Cholinergic system
4	system Adrenergic
5	Histamine and antihistamines
6	Kinins and Prostaglandins (Serotonin
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 Drug treatment for headache
14	General anaesthesia
15	Local anaesthesia Neuromuscular blocking drugs
16	GIT Drugs acting on
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 (Part one)Antibiotics
24	(Part two)Antibiotics
25	Antifungal Antiviral Antiprotozoal and anthelmintic
26	Antituberculosis drugs Antimalarial drugs

	Antiseptics
۲۷	Hormones Corticosteroids Thyroids hormones and antithyroid
۲۸	contraceptive drug ،hormones Sex Antidiabetics
۲۹	Cytotoxic drugs Immunopharmacology
۳۰	Drugs interaction Drug poisoning

Ministry of Higher Education and Scientific Research

UNIVERSITY OF MISAN

College Of Medicine



Syllabus of Medical
Syllabus of Medical College Curriculum

FOURTH YEAR

2025-2024

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

٣٠	anthrax :abraisions
٣١	rabies ,animal bites
٣٢	tetanus :wounds
٣٣	AIDS ,hepatitis B :injections
٣٤	hookworm ,Schistosomiasis :Penetration
٣٥	sEXUALLY TRANSMITTED DISEASE-
٣٦	zOoNOTIC INFECTIONS -
٣٧	traVELLER HEALTH Nosocomial infections and -
٣٨	epidemiology of ischaemic heart diseases
٣٩	epidemiology of diabetes mellitus
٤٠	cancerepidemiology of
٤١	accidentsepidemiology of
٤٢	epidemiology of mental health and geriatrics
٤٣	Introduction to MCH care
٤٤	careof MCH Components
٤٥	pregnancyNutrition during
٤٦	Infection during pregnancy
٤٧	Low birth weight and prematurity
٤٨	Evaluation of MCH care
٤٩	under five clinics
٥٠	growth monitoring
٥١	Immunization
٥٢	Development clinics
٥٣	care for handicapped children
٥٤	concept and plans :School health services
٥٥	Vital statistics in MCH care
٥٦	,environment of context the within disease and health ofDefinition healthand environmental
٥٧	Basic activities of environmental health
٥٨	related diseases quality and ,sources :Water
٥٩	pollution air of control and effects health ,pollution ofsources : Air
٦٠	Common environmental problems :Toxicology
٦١	Definition of occupational health
٦٢	Objectives of occupational health services
٦٣	with work Health hazards associated
٦٤	Health hazards to the environment and community which result activitiesfrom industrial
٦٥	Safety measures in occupation
٦٦	Selected occupational diseases
٦٧	for PHCJustifications/Limitation of the hospital model
٦٨	Supportive /and difficulties of PHC contents ,Definition The five star doctor /prohrammes
٦٩	CDD ,EPI :programmesNational PHC
٧٠	Breast feeding ,MCH ,ARI :National PHC programmes
٧١	Brief historical view of Iraq health system

१२	administration
१३	Concept of Planning of health care services
१४	Evaluation of health care services

Medical Ethics	
Subject	
Theory	३० hrs
Practice	० hrs
Units	२
No	Title
१	Ethics in general and medical ethics as a subset
२	background with Theoretical :Principles of medical ethics teaching ethics drawing on justification of extensive
३	Ethics in International documents
४	Ethical consideration of Doctors and the community relationship
५	Ethical consideration in preventive medicine
६	perspectives Medical ethics in historical
७	Ethics and research
८	patientsDoctors and
९	colleaguesDoctors and
१०	Ethics in surgical practice
११	Ethics in Gynaecology and obstetrics
१२	Ethics in Paediatrics
१३	Ethics in Psychiatric practice
१४	reproduction Ethical consideration in human
१५	Accountability in practicing medicine
१६	‘surgical separation of twins ‘Dying patients :Special problems Refusal of necessary treatment ‘Abortion
१७	Optional topics

Subject	Obstetrics
Theory	٦٠ .hr
Practice	٦٠ .hr
Units	٦
No	Title
١	examination & Obstetric history taking
٢	fetal development ,implantation ,Fertilization
٣	Fetal development and growth
٤	function & Placenta development
٥	Physiological changes in pregnancy
٦	Antenatal care
٧	assessment of fetal wellbeing & Antenatal imaging
٨	Assessment of fetal wellbeing
٩	Prenatal diagnosis
١٠	Minor complications of pregnancy
١١	infection Urinary tract
١٢	Fetal and maternal anatomy relevant to labor
١٣	(stages ,onset ,physiology) The process of labour
١٤	labour Mechanism of
١٥	labour normal Management of
١٦	labour Pain relief in
١٧	.(poor progress in labour) Abnormal labour
١٨	.(brow ,face) Malpresentation
١٩	.(occipitoposterior position) Malposition
٢٠	.(oblique ,transverse) Abnormal lie
٢١	.(prolapse & ,presentation Cord
٢٢	.(Breech presentation
٢٣	Induction of labour
٢٤	hemorrhage postpartum
٢٥	rd stage of labour Abnormalities of
٢٦	Operative intervention in obstetrics
٢٧	miscarriage of Types
٢٨	The puerperium
٢٩	The puerperium
٣٠	term pregnancy-Post
٣١	Antepartum hemorrhage
٣٢	immunization-Rhesus iso
٣٣	higher multiples gestations & Twins
٣٤	restriction fetal growth
٣٥	Intrauterine fetal death
٣٦	Hypertensive disorders of pregnancy
٣٧	Hypertensive disorders of pregnancy
٣٨	preterm labour & Late miscarriage
٣٩	Prelabour rupture of the membranes

٤٠	its abnormalities &Amniotic fluid
٤١	Respiratory diseases during pregnancy
٤٢	Heart diseases during pregnancy
٤٣	pregnancyDiabetes in
٤٤	pregnancyDiabetes in
٤٥	Anemia in pregnancy
٤٦	Renal disease in pregnancy
٤٧	Thyroid disease in pregnancy
٤٨	Liver disease in pregnancy
٤٩	Coagulation disorders in pregnancy
٥٠	Connective tissue disease in pregnancy
٥١	Perinatal infection
٥٢	infection Perinatal
٥٣	Venous thromboembolism
٥٤	Abdominal pain in pregnancy
٥٥	Obstetric emergency
٥٦	Obstetric emergencies
٥٧	the puerperium &Psychiatric disorders
٥٨	Drugs in pregnancy
٥٩	perinatal mortality &Maternal
٦٠	Neonatology

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

۳۱	Hemorrhoids
۳۲	Anal canal tumours
۳۳	Anal incontinence
۳۴	Lower GIT bleeding
۳۵	Diabetic foot and gangrene
۳۶	Hernias
۳۷	Abdominal wall
۳۸	Urinary tract lectures
۳۹	Urinary tract imaging
۴۰	Congenital anomalies of kidney and ureter
۴۱	Congenital anomalies of urinary bladder and urethra
۴۲	Urinary tract infections
۴۳	(VUR)ureteral reflux -Vesico
۴۴	Genitourinary tuberculosis and bilharziasis
۴۵	and ‘Laparoscopy ‘Endourology ‘Minimal invasive Urology
۴۶	Robotic surgery
۴۷	Urinary lithiasis
۴۸	Obstructive uropathy
۴۹	Tumors of the urinary bladder
۵۰	Tumors of the kidney and ureter
۵۱	of prostate Carcinoma
۵۲	Benign prostatic hyperplasia
۵۳	Benign disorders of the testicle
۵۴	Tumors of the testis
۵۵	Male infertility and sexual dysfunction
۵۶	Renal transplantation
۵۷	anatomy and physiology of the kidney ‘Introduction
۵۸	Acute renal failure
۵۹	Chronic renal failure
۶۰	Nephritic and nephrotic syndromes
۶۱	Glomerulonephritis
۶۲	Glomerulopathies associated with systemic diseases
۶۳	Diabetic nephropathy and hypertensive nephropathy
۶۴	Drugs and the kidney

Subject	Pediatrics
Theory	٢٠ hrs
Practice	0
Units	2
No	Title
١	Infant feeding †Constipation †Feeding problems †Formula feeding †Breast feeding) (Vomiting and Abdominal pain
٢	Nutritional disorders th Failure to †Kwashiorkor-Marasmus †Marasmus †Kwashiorkor) : (.Calcium metabolism and rickets
٣	Immunization includi vaccines Other †program vaccine polio expanded and vaccine) : †Measles vaccine †Tetra vaccine †vaccine Penta †hepatitisB vaccination of contraindications and Complications (MMR .schedule in IRAQ Immunization
٤	development and Growth ph †development and growth affecting factors †definition) : methods of †development of growth and circumferential †growth linear measurement developmenta †fold skin& (milestones from birth until puberty
٥	Infectious diseases: cou whooping †rubella mumps measles †encephalitis †meningitis) : (azar-kala †poliomyelitis

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

٤٠	Pleural effusion
٤١	Interstitial lung diseases
٤٢	Respiratory failure
٤٣	Adult respiratory distress syndrome
٤٤	Cor pulmonale
٤٥	Bronchogenic carcinoma
٤٦	B.Pulmonary T
٤٧	Pulmonary embolism
٤٨	disorders Endocrine and Metabolic.D
٤٩	neuroendocrine relationship-Introduction
٥٠	diseasesPituitary gland
٥١	diseasesThyroid gland
٥٢	Diabetes mellitus
٥٣	Adrenal gland diseases
٥٤	Parathyroid gland diseases
٥٥	Gonadal diseases
٥٦	Dyslipidemia
٥٧	Porphyria
٥٨	Gastroenterology and liver diseases.E
٥٩	Functional anatomy of gasterointestinal systeme
٦٠	Common clinical manifestations of GIT
٦١	diseases .I.GInvestigations of the
٦٢	hiatus ‘esophagitis ‘dysphagia :Diseases of the esophagus tumours ‘achalasia ‘hernia
٦٣	Ulcer Diseases of stomach
٦٤	Tumours stomach of the
٦٥	Bleeding.I.G
٦٦	Malabsorption syndrome
٦٧	Ischaemia and tumours of small bowel
٦٨	bowel diseases inflammatoryChronic
٦٩	Tumours of large bowel
٧٠	‘acute viral hepatitis -disease Acute paranchymal liver :The liver Portal ‘ disease liver Chronic‘ failure hepatic fulminant Acute hypertension
٧١	Drug induced liver disease
٧٢	biliary system :Tumours of the liver
٧٣	acute pancreatitis :Pancreatic diseases
٧٤	system biliary
٧٥	.F Poisoning Drug
٧٦	Drug poisoning
٧٧	Chemical poisoning

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

الجروح

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

*الصدمة العصبية
 *الصدمة الدموية
 *النهي العصبي
 *النزف الدموي
 *الخمج
 *الخثرات والصلوات (الدموية, الشحمية, الهوائية)
 *عجز الكليتين
 *نزف الغدة الكظرية
 جروح مناطق الجسم المختلفة: -
 *جروح فروة الرأس
 *كسور الجمجمة
 (الكسور المباشرة) الخطية, -الانخسافية, التفتتية)
 (الكسور غير المباشرة)الطولي, -المستعرض, الحلقي)
 *إصابات الدماغ
 الارتجاج الدماغى-
 الكدمة الدماغية-
 تمزق الدماغ-
 الوذمة الدماغية-
 النزف الدماغى-
 *الانزفة السحائية
 النزف فوق الجافية-
 النزف تحت الجافية-
 النزف تحت العنكبوتية-
 *كسور العمود الفقري وإصابات الحبل الشوكى
 *جروح الرقبة) الانتحارية, الجنائية, العرضية)
 *إصابات الصدر:
 كسور الاضلاع-
 إصابات الرئة-
 إصابات القلب-
 إصابات الاوعية الدموية-
 *إصابات البطن:
 إصابات الطحال-
 إصابات الكبد-
 إصابات المعدة والامعاء-
 إصابات الكلية والغده الكظرية -إصابات المثانة البولية-

جروح الاسلحة النارية

٤

<p>*الغاية من دراسة جروح الاسلحة النارية *انواع الاسلحة النارية *صفات جروح الاسلحة النارية *تحديد مدخل ومخرج الطلق الناري *تحديد مسافة الاطلاق *تحديد اتجاه الاطلاق *تحديد نوع السلاح الناري *تحديد السبب الحقيقي للوفاة *ضبط الادلة المادية والجرمية *تحديد ظروف الحادث وكيفية الاصابة</p>	
<p>ظروف الاصابة وكيفية حصول الحادث الكيفية الجنائية الكيفية الانتحارية الكيفية العارضية الكيفية المفتعلة</p>	٥
<p>الموت *تعريف الموت *تشخيص الموت *اهمية تشخيص الموت *انواع الموت</p>	٦
<p><u>الحروق</u> تعريف الحروق- انواع الحروق- الحرق الكهربائي- الحرق الكيميائي- الحرق الحراري (الحرق الجاف, الحرق الرطب) - الاعراض المتحققة من دراسة الحروق تعيين درجة الحرق- - تعيين المساحة السطحية للحرق- تعيين العامل المسبب للحرق (الحرق الناري, الحرق السلقي) - تعيين حيوية الحرق- تعيين عوامل الخطورة في الحرق- العلامات السريرية والتشريحية للحرق- اسباب الوفاة في الحروق-</p>	٧

اضرار البرد (عضة الصقيع او الموت بردا -)	
<p>الصدمة الكهربائية الصفات الفيزيائية للتيار الكهربائي- العلامات السريرية والتشريحية للحرق الكهربائي- اسباب والية الموت بالصعق الكهربائي- الصاعقة الجوية</p>	٨
<p>الاختناق تعريف الاختناق- اسباب الاختناق- مراحل الاختناق- العلامات العامة للاختناق- انواع الاختناق- كتم النفس- الخنق اليدوي- الخنق الرباطي- الشنق- الاختناق بالضغط على الصدر (الاختناق الاصابي او الرضي) - الاختناق في حيز محكم الغلق- الاختناق باستنشاق جسم غريب (الغصص او الزهق) - الغرق: انواع الغرق (الغرق الجاف , الغرق الرطب) - *علامات انغمار الجثة في الماء *اللية الموت في الغرق *المشاهدات التشريحية في الغرق</p>	٩
<p>اصابات) وسائط النقل (السيارات *الاهداف من دراسة حوادث السيارات *انواع حوادث السيارات) دهس , تصادم , انقلاب السيارات) *اصابات مراحل الدهس *اصابات السائق</p>	١٠
<p>القضايا الجنسية *الحالات الواردة الى الطبابة العدلية وسبب ورودها *فحص غشاء البكارة *انواع الجرائم الجنسية *الاغتصاب</p>	١١

<p>*السفاح *هتك العرض *اللواط *الحمل غير الشرعي *الاجهاض الجنائي *جريمة قتل الوليد *العنة والعقم</p>	
<p>الموت المفاجئ *تعريف الموت المفاجيء *اسباب الموت المفاجيء حسب الفئات العمرية المختلفة *احتشاء العضلة القلبية *الامراض النزفية وغير النزفية في الدماغ كالصرع والاورام والصمات *الصمة الدموية الرئوية *الربو *اسباب اخرى متفرقة *موت الرضع المفاجيء (موت المهد) *الموت اثناء العمليات الجراحية (الموت تحت التخدير العام) او اثناء الاجراءات</p>	<p>١٢</p>
<p>السموم *تعريف *العوامل المؤثرة في تاثير السم على الجسم *التسمم بالكحول *الادمان والاعتماد *التسمم بمبيدات الحشرات *التسمم بالكيروسين (النفط الابيض) *التسمم بالسيانيد *التسمم بغاز احادي اوكسيد الكربون</p>	<p>١٣</p>
<p>الاستعراف -التعرف على الاحياء -التعرف على الجثث مجهولة الهوية الحديثة</p>	<p>١٤</p>

Syllabus of the MEDICAL ETHICS (Theory 30 hrs)

1- First term Objectives

Topic	Lectures
❖ Principal Features of Medical Ethics <ul style="list-style-type: none"> - ¿What's special about medicine - What's special about medical ethics? - Who decides what is ethical? - ¿Does medical ethics change - Does medical ethics differ from one country to another? - How do individuals decide what is ethical? 	hours Ʒ
❖ Physicians and Patients <ul style="list-style-type: none"> - What's special about the physician-patient relationship? - .Respect and equal treatment - .Communication and consent - Decision-making for incompetent patients. 	hours Ʒ
❖ Physicians and Society <ul style="list-style-type: none"> - What's special about the physician-society relationship? - .Dual loyalty - .Resource allocation - .Public health - .Global health 	hours Ʒ

second term .ʘ

objectives

Topic	Lectures
❖ Physicians and Colleagues <ul style="list-style-type: none"> - .Challenges to medical authority - Relationships with physician colleagues, teachers and .Students - Reporting unsafe or unethical practices. - Relationships with other health professionals. - .Cooperation - Conflict resolution 	hours ʘ
❖ Medical Research <ul style="list-style-type: none"> - .Importance of medical research - .Research in medical practice - .Ethical requirements - .Ethics review committee approval - .Risks and benefits - .roles Conflict of - Honest reporting of results 	hours ʘ

Ministry of Higher Education and Scientific Research

UNIVERSITY OF MISAN

College Of Medicine



Syllabus of Medical College Curriculum

FIFTH YEAR

2025-2024

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

٤٠	Benign disease of the vulva
٤١	Malignant disease of the vulva
٤٢	the vagina malignant disease of & Benign
٤٣	HIV -Infection in gynecology
٤٤	Tuberculosis of the genital tract
٤٥	١ Urogynecology
٤٦	٢ Urogynecology
٤٧	٣ Urogynecology
٤٨	١ (anatomy) Pelvic organ prolapse
٤٩	٢ Pelvic organ prolapse
٥٠	١ menopause The
٥١	٢ menopause The
٥٢	١ Endoscopic surgery in gynecology
٥٣	٢ Endoscopic surgery in gynecology
٥٤	١ Gynecological operations
٥٥	٢ Gynecological operations
٥٦	Postoperative complications in gynecology
٥٧	Chronic pelvic pain and back pain
٥٨	gynecology therapy in Hormone
٥٩	Radiotherapy in gynecology
٦٠	gynecology Chemotherapy in

Subject	General surgery
Theory	۱۲۰ hrs
Practice	۱۲۰ hrs
Units	۱2
No	Title
۱	Cardiothoracic surgery lectures .A
۲	Thoracic Anatomy):mediastinum and lung pleura Chest wall Incisions Thoracic Injuries Conditions Requiring Urgent Congenital Injuries Dangerous But Less Compelling Correction Chest Wall Tumors Deformities
۳	Effusion Pleural : Diseases of the Pleura and Pleural Space Tumors
۴	Congenital Lung Lesions Diagnostic Modalities Anatomy :Lung Carcinoma Primary)Tumors Infections Pulmonary Solitary) Other Lung Tumors Nodules Pulmonary
۵	Neoplasms Trauma Congenital Lesions :Trachea
۶	:Mediastinum Vena Superior Mediastinitis Tumors and Cysts Caval Obstruction
۷	Cardiac :surgery Cardiopulmonary heart Congenital bypass and diseases heart valvular) disease heart Acquired disease replacement surgery and Cardiac Valves (ischaemic heart diseases tumours cardiac and transplantation Cardiac pacemaker
۸	:Pericardium anatomy and physiology pericardial effusion constrictive pericarditis and pericardiocentesis
۹	Vascular surgery lectures .B
۱۰	Investigations of vascular diseases
۱۱	diseases Aneurysmal
۱۲	Thoracic aortic dissection
۱۳	(Atherosclerosis and Vasculitis)Occlusive disease
۱۴	Vascular embolism
۱۵	Arteriovenous fistulas
۱۶	Vascular trauma
۱۷	s phenomenon and Vibration'Raynaud)Vasospastic disorders .(white finger
۱۸	Cold injury
۱۹	Maxillofacial surgery lectures .C
۲۰	Maxillofacial injuries
۲۱	Developmental and dislocation mandibular Orthopantomography abnormalities of the teeth
۲۲	Swellings of the jaw
۲۳	Infections in Maxillofacial surgery
۲۴	cleft and lip cleft) palate and lips face the of anomalies Congenital (palate
۲۵	cystdermoid ranula congenital anomalies :Oral cavity disorders

	and stomatitis
۲۶	aerodigestive and oral and cavity oral of conditions Premalignant cancers
۲۷	glossitis †tongue tie †fissures †tongue ulcers :Tongue disorders and tongue tumours
۲۸	Anesthesia .D
۲۹	and Preparation for anaesthesia†History of anaesthesia
۳۰	Preoperative investigation
۳۱	Preoperative evaluation and management
۳۲	Preoperative drugs and treatment
۳۳	General anaesthesia
۳۴	Management of the airway during anaesthesia General
۳۵	Haemostasis and blood pressure control
۳۶	Monitoring during anaesthesia
۳۷	Recovery from general anaesthesia
۳۸	and hypo)Management of blood pressure in the recovery room (hypertension
۳۹	Local anaesthesia
۴۰	acute pain management)Perioperative pain relief
۴۱	post operative pain management
۴۲	reliefchronic pain
۴۳	Orthopedic .E
۴۴	Fractures and Joint Injuries .۱
۴۵	injuries major of managementThe
۴۶	.fracturesof Principle
۴۷	.upper arm and elbow †Injuries of the shoulder
۴۸	.Injuries of the forearm and wrist
۴۹	.Hand injuries
۵۰	.Injuries of the spine
۵۱	.Injuries of the pelvis
۵۲	.Injuries of the hip and femur
۵۳	.Injuries of the knee and leg
۵۴	.Injuries of the ankle and foot
۵۵	General Orthopedics .۲
۵۶	.Orthopedic diagnosis
۵۷	.Infection
۵۸	.Rheumatic disorders
۵۹	.Crystal deposition disorders
۶۰	.Osteoarthritis
۶۱	Osteonecrosis and related disorders
۶۲	surgeryOrthopedic .۳
۶۳	Osteomyelitis Acute
۶۴	Genetic disorders
۶۵	Rheumatic disorders
۶۶	Hand congenital and acquired deformities

٦٧	Neuromuscular disorders
٦٨	deformities Congenital foot
٦٩	Chronic Osteomyelitis
٧٠	Crystal deposition disorders
٧١	nerve injuries Peripheral
٧٢	Wrist disorders
٧٣	Metabolic and endocrine disorders
٧٤	Elbow disorders
٧٥	Hip disorders
٧٦	Bone Tumors
٧٧	Shoulder and pectoral girdle disorders
٧٨	Bone Tumors
٧٩	Hand disorders
٨٠	Cervical disorders
٨١	kyphosis Scoliosis and
٨٢	Knee disorders
٨٣	prolapsed Intervertebral disc
٨٤	Orthopedic operations
٨٥	Knee joint swelling
٨٦	Hand infections
٨٧	Torticollis
٨٨	Deformities of toes
٨٩	Soft tissue tumors
٩٠	Ankylosing spondylitis
٩١	Spondylolysthesis

Subject	tologyDerma
Theory	۳۰ hrs
Practice	30 hrs
Units	3
No	Title
۱	.of the skinfunction& Anatomy
۲	skin and morphological of terms general †Histology of the skin . lesions
۳	infectionBacterial skin
۴	.(Mycoses)Fungal infections
۵	.infections Viral
۶	.Leprosyand TB
۷	.pigmentationDisorders of
۸	Disorders of sebaceous gland
۹	Disorders of sweat gland
۱۰	Disorders of blood vessels
۱۱	.Leishmania
۱۲	.Psoriasis
۱۳	.pityriasis rosea†Lichen planus
۱۴	.rosacea Acne† Acniform rash† Acne
۱۵	.erythemas &Urticaria
۱۶	.Bullous eruption
۱۷	Reaction to physical agent
۱۸	.atopic dermatitis †Eczema
۱۹	.its disorders &Nail
۲۰	Skin tumors
۲۱	.Contaneus manifestation of internal organs and AIDS
۲۲	.Drugs eruptions
۲۳	.Genodermatoses
۲۴	۱.Skin in connective tissue diseases
۲۵	۲.Skin in connective tissue diseases
۲۶	.Syphilis and other treponematoses
۲۷	.Chancroid and other genital ulcers
۲۸	.non gonococcal urthritis&Gonococcal -Urthral discharge
۲۹	.physical therapies&topical :Dermatological therapy
۳۰	.Systemic therapies

Subject	T.N.E
Theory	३. hrs
Practice	३. hrs
Units	3
No	Title
१	Surgical anatomy and applied physiology of the nose paranasal .sinses
२	.endoscopy of the nose and paranasal sinuses Radiology and
३	Congenital malformation and injuries of the nose and paranasal .sinuses
ॣ	Infection of the nose and paranasal sinuses and their management
०	.Nasal allergy and vasomotor rhinitis
ॢ	.Epistaxis
ॣ	.the nose and paranasal sinuses Tumors of
ॠ	Surgical anatomy and applied physiology of pharynx and .esophagus
ॡ	.Inflammation of the mouth and pharynx
ॢ०	Ulcers
ॢॢ	.Adenoid hyper atrophy-Tonsillitis and Adenoid is
ॢॣ	.and complications indications ‘Tonsillitis and Adenoidectomy
ॢॠ	.Dysphagia-and hypopharynx Tumors of the nasopharynx
ॢॢ	.Surgical anatomy and applied of the Larynx
ॢ०	.Congenital malformations and injuries of the Larynx
ॢॢ	.Laryngitisand chronic Acute
ॢॣ	.Hoarseness
ॢॠ	.Stridor
ॢॡ	.Larynxthe Tumors of
ॣ०	.Lump in the Neck
ॣॢ	.labyrinth–Surgical anatomy of the ear
ॣॣ	.Physiology of hearing and vestibular system
ॣॠ	.Hearing impairment and audio logical assessment
ॣॢ	Vertigo and neurological assessment
ॣ०	.and neoplasm of the ear trauma ‘Congenital malformation
ॣॢ	.chronic and secretory ‘Otitis media Acute
ॣॣ	Complications of the middle ear infections
ॣॠ	.Principles of middle ear surgery
ॣॢ	.Otosclerosis
ॣ०	.s disease'Mienier
ॣॢ	V.P.P.B
ॣॣ	Vestibular neuronitis

Subject	Ophthalmology
Theory	३० hrs
Practice	३० hrs
Units	३
No	Title
१	‘myopia ‘The optical system of the eye)Refractive errors ‘accommodation ‘anisometropia ‘astigmatism ‘hyperopia (lenses contact ‘presbyopia
२	lid eye ‘diseases lid eye allergic ‘trichiasis) disorders lid Eye ‘and cysts nodules benign ‘zoster herpes ‘simplex herpes - infection cell basal - tumors malignant ‘blepharitis marginal ‘stye ‘chalazion ‘melanoma ‘carcinoma cell squamous ‘carcinoma (ptosis ‘entropion ‘ectropion
३	‘blow out fracture ‘Trauma orbital hemorrhage)Orbital eye disorders : Tumours ‘cellulitis preseptal ‘cellulitis orbital :Infection (eye disease thyroid ‘hemangioma cavernous ‘sarcoma-rhabdomyo
४	viral ‘conjunctivitis bacterial ‘ anatomy Applied) diseases Conjunctival ‘conjunctivitis allergic ‘conjunctivitis chlamydial ‘conjunctivitis non ‘lesions conjunctival pigmented ‘degenerations conjunctival (pigmented conjunctival tumours
५	‘bacterial keratitis ‘anatomy corneal Applied) I diseases sclera and Corneal corneal ‘keratitis zoster herpes ‘keratitis simplex herpes ‘fungal keratitis foreign corneal ‘laceration corneal ‘abrasion (keratoconus ‘chemical corneal injury ‘body
६	‘tonometry ‘aqueous pathophysiology ‘Definition) Glaucoma primary ‘assessment field visual ‘assessment nerve optic ‘gonioscopy congenital ‘glaucoma angle narrow primary ‘glaucoma angle open in laser ‘therapy medical glaucoma ‘glaucoma (glaucoma
७	rhegmatogenous retinal ‘Applied anatomy)Retinal detachment exudative retinal ‘tractional retinal detachment ‘detachment (treatment of retinal detachment ‘detachment
८	‘Exposure keratopathy)Corneal and sclera diseases II surgical refractive ‘keratoplasty ‘keratoconjunctivitis sicca (scleritis ‘episcleritis ‘procedures
९	Central retinal ‘Diabetic retinopathy)Retinal vascular diseases I ‘fugax Amaurosis ‘occlusion vein retinal Branch ‘occlusion vein (occlusion artery retinal Central
१०	causes of ‘Pathogenesis of cataract)Crystalline lens disorders (Ectopia lentis ‘cataract congenital ‘surgery cataract of types ‘cataract
११	‘pigmentosa retinitis ‘retinopathy Hypertensive) II diseases Retinal (myopic maculopathy ‘Age related macular degeneration

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

Subject	Internal medicine
Theory	9· hrs
Practice	6· hrs
Units	8
No	Title
1	Nephrology .A
2	Functional anatomy and physiology
3	tract disease Investigation of renal and urinary
4	·nephrotic syn·gn:Glomerular diseases
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	involvement in systemic conditions Renal
12	Renal tumours
13	diseaseBlood .B
14	Functional anatomy and physiology
15	Clinical examination in blood disease
16	Investigation of diseases of the blood
17	Blood products and transfusion
18	antithrombotic therapy Anticoagulant and
19	Anaemias
20	Haemoglobinopathies
21	Haematological malignancies
22	Myeloproliferative disorders
23	Bleeding disorders
24	Thrombotic disorders
25	diseaseNeurological .C
26	and physiology anatomyFunctional
27	of neurological disease Investigation
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	peripheral nerves Diseases of
36	Diseases of the neuromuscular junction
37	muscleDiseases of

Subject	Pediatric
Theory	90 hrs
Practice	३०
Units	7
No	Title
१	Diseases of the newborn: premature (weight birth low (care & the normal newborn) : small (baby hypoxic (post term baby (disease membrane hyaline (gestational age for (infections neonatal (neonatal convulsions (encephalopathy ischemic of diseases and metabolic (jaundice) hyperbilirubinemia neonatal (hypocalcemia (hypoglycemia (mother diabetic of infant (newborn of disease hematological hemorrhagic disease of newborn (newborn
२	Genetic disorders: single (Chromosomal abnormalities (inherited disorders (basic genetics) Unusual genetic (Mendelian disorders) gene disorders Interaction of genetic and environmental (mechanisms or complex (multifactorial (polygenic) factors (Klinefelter syndrome (18, 13, 21 trisomy (disorders (and cri du chat (Turner syndrome (Genetic counseling
३	Cardiac diseases: (TOF (PDA (ASD (VSD :diseases congenital heart) : (endocarditis and rheumatic fever (failure heart (TGA)
४	Respiratory : (pneumonia (bronchiolitis (epiglottitis (infectious croup) diseases
०	Atopic disorders (atopic conditions and asthma)
६	mellitus Diabetes
७	Gastrointestinal disorders: Electrolytes and fluid therapy (dehydration (gastroenteritis) (GIT of malformation congenital (ORT pyloric (fistula esophageal -trachea hirshsprung and (stenosis (disease
८	Renal system disorders nephrotic (streptococcal glomerulonephritis acute post (UTI) (syndrome uremic hemolytic
९	disorders system Nervous t clinical (classifications (definition :disorders convulsions) seizu mal ptit (spasm infantile (convulsion febrile including mental (palsy Cerebral .myoclonic seizures (retardation
१०	oncology and Hematology hemoglobinop (anemia deficiency iron including anemia) (children in leukemia (defect membrane di hemorrhagic willibrand disease -von (including hemophilia (and thrombocytopenia
११	Poisoning organophosphorus and iron (lead (kerosene (salicylate (measures general)

Subject	Radiology
Theory	३. hrs
Practice	३. hrs
Units	३
No	Title
१	1- Introduction:
२	.objectives of radiology & Aims
३	.department imaging The
४	& CT ,imaging nuclide-radio ,ultrasound ,ray-X Basic principles of .MRI
५	,ultrasound ,ray-contraindications of x & ,limitations ,Indications .MRI & CT ,radionuclide imaging
६	.Contrast medium used in radiology
७	.protection radiation & hazards ray-X
८	2-III ,II ,Respiratory system I
९	.Radiological anatomy of the lungs
१०	.Investigations in chest diseases
११	chest normal of interpretation ,procedure & technique ray-x Chest .ray-x
१२	.ray-Diseases of the chest with normal chest x
१३	,space filling air ,sign Silhouette) disease lung of signs Radiological ,cavitation ,shadows spherical ,collapse pulmonary .(widespread shadows & line , hilar enlargement ,calcification
१४	.Diseases of the pleura
१५	.Diseases of the mediastinum
१६	,TB Pulmonary ,abscess Lung ,pneumonia) diseases lung specific ,embolism Pulmonary ,airway the of Diseases ,Hydatid Pulmonary ,lymphoma Pulmonary ,metastases Pulmonary ,Bronchogenic carcinoma ,pneumonitis Radiation ,trauma Chest ,ARDS & RDS .(Cystic fibrosis
१७	.Diseases of the diaphragm
१८	3.II ,vascular system I-The cardio
१९	.Investigations of the cardiovascular system
२०	,shape & Heart size) :Radiological evidence of heart disease .(pulmonary vessels ,evidence of pericardial disease
२१	,Valvular heart disease ,Heart failure) disease Specific heart .(congenital heart disease ,ischemic heart disease
२२	.Diseases of the aorta
२३	.Dextrocardia
२४	Plain abdomen. ४
२५	.General considerations
२६	.Normal findings in plain abdominal films
२७	,Bowel dilatation) :of abnormal plain abdominal film Interpretation .(Abdominal calcifications ,Ascitis ,Gas outside bowel lumen

۲۸	5. II †intestinal tract I-Gastro
۲۹	.Normal radiographic anatomy
۳۰	Types of contrast study of the GIT
۳۱	.radiological terms in GIT diseases Specific
۳۲	.Diseases of the esophagus
۳۳	.Diseases of the stomach small bowel
۳۴	.Diseases of the large bowel
۳۵	pancreas & spleen †Liver-۶
۳۶	investigations of hepatobiliary & Normal radiographic anatomy .system
۳۷	.biliary system & Diseases of the liver
۳۸	.Radiological investigations of the spleen
۳۹	.diseases of the pancreas & Radiological investigations
۴۰	retroperitoneum & Peritoneal cavity .۷
۴۱	-intra †peritoneal tumors †ascitis) Diseases of the peritoneum (peritoneal abscesses
۴۲	.peritoneum-retro Investigations of the
۴۳	†peritoneal lymphadenopathy-retro) peritoneum -Diseases of the retro peritoneal-retro †gland adrenal the of disease -retro †hematoma peritoneal-retro †aneurysm aortic †tumors (abscesses psoas & peritoneal
۴۴	II †Urinary tract I.۸
۴۵	Investigations of the urinary tract
۴۶	.Nephrocalcinosis & Urinary calculi
۴۷	.obstruction Urinary tract
۴۸	†Angiomyolipoma †renal cyst simple) masses Renal paranchymal (Renal cell carcinoma
۴۹	.Urothelial tumor
۵۰	& Renal †Emphysematous pyelonephritis & acute) Infection Chronic †Renal TB †Pyonephrosis †perinephric abscess (pyelonephritis
۵۱	.ureteric reflux-Vesico
۵۲	.Renal trauma
۵۳	.failure Chronic renal
۵۴	.urinary tract Congenital variation of the
۵۵	diseases of the †diseases of the prostate †Diseases of the UB .Urethra
۵۶	.testes & Diseases of the Sacrotum
۵۷	Female genital tract. ۹
۵۸	.normal radiographic anatomy & Investigations
۵۹	†masses ovarian) tract genital female the of diseases Specific (endometriosis †disease inflammatory pelvic †masses uterine
۶۰	.Ultrasound appearance of normal uterine pregnancy
۶۱	.Ectopic pregnancy
۶۲	imaging Breast. ۱۰

٦٣	.breast Investigations of
٦٤	.anatomy Normal radiographic
٦٥	breast (fibroadenoma (cyst simple) breast the of diseases Specific (carcinoma
٦٦	11.III (II (Radiology of bone diseases I
٦٧	Plain radiographic Signs of bone diseases
٦٨	.Classification of bone diseases
٦٩	.solitary bone lesion Radiological assessment of
٧٠	Ewing (Chondrosarcoma (Osteosarcoma) :tumors bone Malignant (Giant cell tumor (s sarcoma
٧١	.like lesion tumor & tumors Benign
٧٢	(TB (Osteomyelitis) Bone infection
٧٣	(myeloma multiple & metastases bone) lesions bone focal Multiple
٧٤	.Generalized decrease in bone density
٧٥	.Generalized increase in bone density
٧٦	.Acromegally
٧٧	.Radiology of bone trauma
٧٨	Radiology of joint diseases. ١٢
٧٩	.of joint diseases techniques Imaging
٨٠	diseases Plain radiographic Signs of joint
٨١	(arthritis pyogenic (osteoarthritis (rheumatoid arthritis) Arthritis
٨٢	.Avascular necrosis
٨٣	13.II (Radiology of the spine I
٨٤	Imaging investigations of the spine
٨٥	.Anatomical review
٨٦	.abnormality Plain radiographic Signs of spinal
٨٧	& lymphoma (Metastases) :Specific diseases of the spine degenerative disc (spinal trauma (spinal infection (Myeloma Spinal (spondylitis Ankylosing (stenosis Spinal (disease (compression cord spinal (dysraphysim
٨٨	II (brain I & Skull . ١٤
٨٩	brain & Imaging investigations of the skull
٩٠	.brain & Normal radiographic anatomy of the skull
٩١	multiple (infection (stroke (brain tumors) :Specific brain disorders (sclerosis
٩٢	.Radiology of head injury
٩٣	15.II (neck I & orbit (Sinuses
٩٤	.nasal sinuses-diseases of the para & Imaging techniques
٩٥	.diseases of the orbit & Imaging techniques
٩٦	.diseases of the salivary glands & Imaging techniques
٩٩	.gland thyroid-para & thyroid the of diseases & techniques Imaging
١٠٠	Angiography . ١٦
١٠١	.complications of arteriography & principles (indications (Definition
١٠٢	.Indications of venography
١٠٣	venous-arterio (Atheroma (Aneurysms) disorders vascular Specific

	hyperplasia Fibromuscular & Stenosis malformation & fistula (vascular Tumors Embolism & Thrombosis
1.4	Interventional radiology
1.5	Vascular interventional procedures
1.6	biopsy Percutaneous needle
1.7	fluid collections & Percutaneous drainage of abscess
1.8	obstruction Interventions in urinary
1.9	Interventions in biliary obstruction

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

Ministry of Higher Education and Scientific Research

UNIVERSITY OF MISAN

College Of Medicine



Syllabus of Medical College Curriculum

SIXTH YEAR

٢٠٢٥-٢٠٢٤

Number of weeks		Subject
Units	Weeks	
12	12	Internal Medicine
12	12	Surgery
10	10	Gynecology & obstetrics
10	10	Pediatrics
44	44	TOTAL WEEKS