



ISO 9001:2008 CERTIFIED

LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCES JAMSHORO SINDH, PAKISTAN

CURRICULUM

**THIRD PROFESSIONAL
MBBS**

BATCH 2018-19

**ACADEMIC SESSION
2020-21**

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MESSAGE

On behalf of the Vice Chancellor Prof. Dr. Bikha Ram Devrajani faculty members, I welcome you all to the Fifth Semester (Third Year MBBS) class. Liaquat University of Medical and Health Sciences, is nationally and internationally recognized that distinguishes itself as the first ever public sector Medical University achieved ISO 9001:2008 certification and thus became entrenching center for outstanding teaching qualities with moral and ethical values, fantastic learning outcomes, and productivity of the student's knowledge and experience.

We represent brilliant standards in teaching, research and creativity by regular class room activity, OSPE/OSCE pattern of evaluation, strict monitoring of student's attendance and counseling by Director Academics to produce professionals outfitted with highest standards in transfer and application of knowledge to address the health issues of this society.

All this is only possible with support of students, their parents and teachers, which are actually the stakeholders and play fundamental role to achieve upcoming objectives and goals.

Your accomplishments at Liaquat University of Medical and Health Sciences will be the extent of our achievements in delivering high quality education, knowledge and training.

I wish you best of luck and an unforgettable learning experience during your stay at this university.

**DIRECTOR ACADEMICS
LUMHS**

THIRD PROFESSIONAL MBBS

BATCH 2018-19

ACADEMIC CALENDAR

Classes will start from	29 th March 2021
Ramazan & Eid-ul-Fitr Holidays	01 st to 16 th May 2021
Classes will re-start from	17 th May 2021
Classes will end on	20 th November 2021
Preparation leaves	21 st Nov to 19 th Dec 2021
Theory and OSPE Examination	20 th Dec to 29 th Jan 2022

TIME TABLE

FROM MONDAY 29TH MARCH 2021

TIME	GRP	MONDAY	TUESDAY	WEDNESDAY	THURDAY	FRIDAY
08.00 TO 10.00	A	HOSPITAL POSTING	HOSPITAL POSTING	HOSPITAL POSTING	HOSPITAL POSTING	HOSPITAL POSTING
	B					
10.00 TO 11.00	A	For: Med Lec Pharma Lec Hall	For: Med Lecture Pharma Lec Hall	Pharma Lec Pharma Lec Hall	Patho Lec BDS Lec Hall	For: Med Lec BDS Lec Hall
	B	Pharma Lec Patho Lec Hall	Pharma Lec BDS Lec Hall	Pharma Lec Patho Lec Hall	Micro Lec Patho Lec Hall	For: Med Lec Patho Lec Hall
11.00 TO 12.00	A	Pharma Lec Pharma Lec Hall	Pharma Lec Pharma Lec Hall	Micro Lec Pharma Lec Hall	11:00 AM TO 01:00 PM Forensic Medicine Practical (Whole Batch)	11:00 AM TO 01:00 PM Forensic Medicine Practical (Whole Batch)
	B	Patho Lecture Patho Lec Hall	Micro Lecture Patho Lec Hall	Patho Lecture Patho Lec Hall		
12.00 TO 01:00	A	Micro Lec Pharma Lec Hall	Patho Lecture Pharma Lec Hall	Pharma Lec Pharma Lec Hall		
	B	For: Med Lec Patho Lec Hall	For: Med Lec Patho Lec Hall	Pharma Lec Patho Lec Hall		
		PRACTICALS				01:00 TO 02:00 JUMMA PRAYER BREAK
01:00 TO 03.00	A1 A2 A3	Pharmacy	P. Dynamics	Pathology	Microbiolog y	02:00 TO 03:00 PHARMA COLOGY DISCUSSION A: Pathology Hall B:Pharma Hall
	A4 A5 A6	P. Dynamics	Pharmacy	Microbiology	Pathology	
	B1 B2 B3	Pathology	Microbiology	Pharmacy	P. Dynamics	
	B4 B5 B6	Microbiology	Pathology	P. Dynamics	Pharmacy	

SCHEDULE OF HOSPITAL POSTING

THIRD PROF MBBS BATCH 18-19

<u>DATE</u>	MEDICINE				NEU ROL OGY	CHEST MEDICINE	NUCLEAR MEDICINE
	I	II	III	IV			
29 MAR TO 13 APRIL	A1	A2	A3	A4	-----	A5	A6
14 TO 30 APRIL	A1	---	A3	A4	A2	A6	A5
17 TO 28 MAY	A5	A6	A1	A2	A3	-----	A4
31 MAY TO 11 JUNE	---	A6	A1	A2	A5	A4	A3
13 TO 25 JUNE	A3	A2	A5	A6	A4	A1	-----
27 TO 09 JULY	A3	A4	A5	---	A6	A2	A1
12 TO 30 JULY	A5	A4	---	A6	A1	A3	A2
02 AUG TO 17 AUG	B1	B2	B3	B4	-----	B5	B6
23 AUG TO 06 SEPT	B1	---	B3	B4	B2	B6	B5
07 SEPT TO 21 SEPT	B5	B6	B1	B2	B3	-----	B4
22 SEPT TO 05 OCT	---	B6	B1	B2	B5	B4	B3
06 TO 20 OCT	B3	B2	B5	B6	B4	B1	-----
21 OCT TO 05 NOV	B3	B4	B5	---	B6	B2	B1
08 TO 19 NOV	B5	B4	---	B6	B1	B3	B2
<u>DATE</u>	SURGERY				ORTHOPAEDICS	SKILL LAB	
	I	II	III	IV			
29 MAR TO 13 APRIL	B1	B2	B3	B4	B5	B6	
14 TO 30 APRIL	B1	B2	B3	B4	B6	B5	
17 MAY TO 01 JUNE	B5	B6	B1	B2	B3	B4	
02 TO 18 JUNE	B5	B6	B1	B2	B4	B3	
21 JUNE TO 07 JULY	B3	B4	B5	B6	B1	B2	
08 TO 30 JULY	B3	B4	B5	B6	B2	B1	
02 TO 17 AUG	A1	A2	A3	A4	A5	A6	
23 AUG TO 08 SEPT	A1	A2	A3	A4	A6	A5	
09 TO 28 SEPT	A5	A6	A1	A2	A3	A4	
29 SEPT TO 15 OCT	A5	A6	A1	A2	A4	A3	
18 OCT TO 03 NOV	A3	A4	A5	A6	A1	A2	
04 TO 19 NOV	A3	A4	A5	A6	A2	A1	

DEPARTMENT OF PATHOLOGY

S #	TEACHING FACULTY		
01	DEAN BASIC MEDICAL SCIENCES: Professor Dr. Ikram Din Ujjan		
02	CHAIRPERSON AND PROFESSOR: Professor Dr. Farzana Memon		
03	PROFESSOR: Professor Abid Hussain Chang		
	ASSOCIATE PROFESSORS		
04	Dr. Tanveer Ahmed Shaikh	05	Dr. Abdul Aziz Shaikh
	ASSISTANT PROFESSORS		
07	Dr. Naila Shaikh	08	Dr. Suleman Pirzado
09	Dr. Arshi Naz	10	Dr. Zahida Shaikh
11	Dr. Muhammad Rahil Khan	12	Dr. Shariq Anwar Abid
	LECTURERS		
14	Dr. Khalid Yousaf Memon	15	Dr. Shabnam Rustamani
16	Dr. Faheem Ahmed Memon	17	Dr. Muhammad Ali Memon
18	Dr. Furqan Ahmed Bhatti	19	Dr. Abdul Rehman Khalil Shaikh
20	Dr. Amir Ramzan	21	Dr. Sadia Abbasi
22	Dr. Sadia Akbar	23	Dr. Sidra Kadir
24	Dr. Nazia Mumtaz	25	Dr. Sorath Sindhu Mangi
26	Dr. Rameez Iqbal Memon	27	Dr. Yasmeen Bhutto

SUBJECT: GENERAL PATHOLOGY

LEC. #	TOPICS
	<u>CELL INJURY, ADAPTATION & CELL DEATH</u>
	TEACHERS: DR. ABDUL AZIZ SHAIKH / DR. FURQAN AHMED BHATTI
	• Introduction, Causes, Definitions & Adaptation • Adaptation • Mechanisms of injury – I • Mechanisms of injury – II • Cell swelling. Fatty change • Cell Death: Necrosis • Cell Death: Apoptosis • Sub-cellular alterations & Intracellular accumulations • Pigmentation & calcification • Cellular aging
	<u>INFLAMMATION & REPAIR</u>
	TEACHERS: PROFESSOR FARZANA MEMON/ DR. MUHAMMAD. RAHIL KHAN/ DR. ABDUL REHMAN KHALIL SHAIKH
	• General features of Inflammation • Acute Inflammation: Vascular and cellular events • Chemotaxis, Phagocytosis & Mechanism of Exudate formation • Chemical Mediators of Inflammation-I&II • Outcome of inflammation +Chronic Inflammation • Chronic granulomatous inflammation • Repair, definitions, Types of cells • Cell cycle: Cyclins & CDK • Healing

<u>HAEMODYNAMIC DISORDERS</u>	
TEACHERS: PROFESSOR IKRAM DIN UJJAN/ DR. KIRAN AAMIR/ DR. FAHEEM AHMED MEMON	
• Edema • Congestion & Hemorrhages • Thrombosis, introduction & Pathogenesis • Thrombosis, Morphology & Fate • Embolism • Infarction • Shock – I • Shock – II	
<u>DISEASES OF CHILD HOOD</u>	
TEACHERS: PROFESSOR FARZANA MEMON/ DR. NAILA SHAIKH/ DR. ARSHI NAZ	
• Classification of Genetic Diseases • Mutations & their mechanisms • Chromosomal disorders • Mendelian disorders • Diagnosis of Genetic diseases • Congenital anomalies, birth infections • Neonatal Respiratory Distress Syndrome • Fetal Hydrops • Inborn errors of Metabolic disorders • Tumors of infancy and childhood	
<u>IMMUNITY / IMMUNOPATHOLOGY</u>	
TEACHERS: PROFESSOR IKRAM DIN UJJAN / DR. KIRAN AAMIR/ DR. FAHEEM AHMED MEMON	
• Introduction & Innate Immunity • Adaptive Immunity • Cells of Immunity-I • Cells of immunity-II • Structure and Functions of IG • MHC • Hypersensitivity reactions–I • Hypersensitivity reactions–II • Grafts and Rejection • Tolerance and Autoimmunity • Tumor immunity • Immunodeficiency	
<u>NEOPLASIA</u>	
TEACHER: DR. TANVEER AHMED SHAIKH/ DR. KHALID YOUSAF MEMON	
• Introduction & Nomenclature • Characteristic of benign & Malignant tumor • Spread of malignant tumor • Epidemiology of cancer • Molecular basis of cancer, Principles • Molecular Basis of cancer-II. • Etiology of cancer, Chemical carcinogenesis • Etiology of cancer, radiation carcinogenesis • Etiology of cancer, viral carcinogenesis • Clinical features of Neoplasia • Grading and staging of cancer • Lab Diagnosis of Neoplasia	

SUBJECT: MICROBIOLOGY (TWO LECTURES / WEEK)

**TEACHERS: PROF. ABID HUSSAIN CHANG / DR. NAILA SHAIKH /
DR. ZAHIDA SHAIKH/ DR. KHALIL AHMED MEMON**

GENERAL BACTERIOLOGY

- Prokaryotes & eukaryotes
- Bacterial cell structures
- Classification of medically important bacteria
- Normal flora and their importance in human body
- Bacterial growth (Growth curve) & their characteristics
- Bacterial Pathogenesis
- Host defenses
- Bacterial Genetics
- Laboratory diagnosis of bacteria
- Sterilization.

PARASITOLOGY

- Intestinal Protozoa (E.histolytica, G.lamblia)
- Blood & Tissue Protozoa (Plasmodium)
- Leishmania
- Trynosoma & Toxoplasma gondii
- Cestodes (Taenia Saginata & Solium)
- Cestodes (Hydatid cyst & D. Latum)
- Trematodes
- Nematodes– A. lumbricoides
- Nematodes– Ankylostoma Duodenale
- Nematodes– (T. Trichuria, E. Vermicularis & T. Spiralis)
- Nematodes– (S. stercoralis & W. Bancrofti)
- Nematodes–(Loaloa, O.volvulus & D. Medinensis)

GENERAL VIROLOGY

- Structure of virus
- Replication of virus.
- Classification of medically important viruses
- Viral Pathogenesis
- Host defenses and viral vaccines
- Laboratory diagnosis of viral infection

SPECIAL BACTERIOLOGY

- **Gram-positive cocci**
 - Staphylococci
 - Streptococci
 - S. pneumonia
- **Gram negative cocci**
 - Niesseriae
- **Gram positive bacilli (non-spore forming)**
 - Diphtheria
 - Listeria & Actinomyces
- **Gram positive bacilli (spore forming)**
 - Bacillus Species
 - Clostridia Species
- **Mycobacteria**
 - M. Tuberculosis
 - M. Leprae
- **Gram negative bacilli**
 - Salmonella + Shigella
 - E. coli + Klebsiella & Entrobacter
 - Proteus & Pseudomonas
 - Campylobacters, H.pylori + Vibrio
 - H. Influenza, B. Pertussis
- **Spirochaetes**
- **Rickettsia + Chlamydia + Mycoplasma**

MYCOLOGY

- Basic mycology
- Cutaneous & subcutaneous mycoses
- Systemic mycoses
- Opportunistic mycoses

SPECIALVIROLOGY

- DNA Viruses
 - Herpes virus
 - Human Papilloma Virus / Adenovirus
- RNA Viruses
 - Influenza Virus / Corona Virus
 - Rabies Virus
- Polio virus & Dengue Virus
- Hepatitis viruses
- Human immune deficiency virus
- Tumor viruses

ENVIRONMENTAL & NUTRITIONAL PATHOLOGY

TEACHER: DR. SULEMAN PIRZADO

- Environment and Disease
- Common environmental and occupational exposures
- Nutrition and disease

HISTOPATHOLOGY PRACTICALS (IN GROUPS)

SUBJECT: GENERAL PATHOLOGY

	TOPICS	NAME OF TEACHER
1	Introduction to Histopathology	DR. KHALID YOUSAF MEMON DR. RAMEEZ IQBAL MEMON
2	Cellular Adaptation	DR. ABDUL REHMAN KHALIL DR. SADIA ABBASI
3	Intracellular Accumulation	DR. KHALID YOUSAF MEMON DR. RAMEEZ IQBAL MEMON
4	Cellular Swelling, Fatty change and Necrosis	DR. FURQAN AHMED, DR. SORATH SINDH & DR. SIDRA KADIR
5	TBL (Team Based Learning)	ALL TEACHERS
6	Acute Inflammation	DR. ABDUL REHMAN KHALIL DR. SADIA ABBASI
7	Chronic non Specific inflammation	DR. KHALID YOUSAF MEMON DR. RAMEEZ IQBAL MEMON
8	Chronic Specific Granulomatous inflammation	DR. FURQAN AHMED, DR. SORATH SINDH & DR. SIDRA KADIR
9	Repair: Fibrosis	DR. RAMEEZ IQBAL MEMON
10	Repair: Angiogenesis	DR. SIDRA KADIR
11	Repair: Wound Healing	DR. RAMEEZ IQBAL MEMON
12	TBL (Team Based Learning)	ALL TEACHERS
13	Edema	DR. ABDUL REHMAN KHALIL DR. SADIA ABBASI
14	Thrombosis	DR. FURQAN AHMED BHATTI
15	Embolism & Infarction	DR. SORATH SINDHU
16	TBL (Team Based Learning)	ALL TEACHERS
17	Introduction To Neoplasia	DR. SORATH SINDHU
18	Benign Epithelial Tumors	DR. SIDRA KADIR
19	Malignant Epithelial Tumors	DR. KHALID YOUSAF MEMON
20	Benign Connective Tissue Tumors	DR. RAMEEZ IQBAL
21	Malignant Connective Tissue Tumors	DR. SADIA ABBASI
22	Clinical Features, Grading & Staging Of Neoplasia	DR. ABDUL REHMAN KHALIL
23	Team Based Learning (TBL)	ALL TEACHERS
24	Mixed Tumors & Teratoma	DR. SORATH SINDHU
25	Metastatic Tumors	DR. SADIA ABBASI
26	Laboratory Diagnosis Of Neoplasia	DR. FURQAN AHMED BHATTI
27	Team Based Learning (TBL)	ALL TEACHERS
28	Immunohistochemical & Frozen Sections Techniques	DR. SORATH SINDHU
29	Environmental & Industrial Diseases	DR. KHALID YOUSUF MEMON
30	Diagnosis Of Genetic Diseases	DR. SADIA ABBASI
31	Immunoassay Techniques	DR. KHALID YOUSAF MEMON
32	Team Based Learning (TBL)	ALL TEACHERS

MICROBIOLOGY PRACTICALS (IN GROUPS)

SUBJECT: GENERAL BACTERIOLOGY

WEEK	TOPICS	
	GENERAL BACTERIOLOGY	NAME OF TEACHER
1	Introduction	DR. KHALIL AHMED MEMON
2	Microscope	DR. FAHEEM AHMED MEMON
3	Simple Staining	DR. MUHAMMAD ALI MEMON
4	TBL (Team Based Learning)	ALL TEACHERS
5	Gram's Staining	DR. SADIA AKBAR
6	Z.N. Staining	DR. YASMEEN BHUTTO
7	Sterilization	DR. AAMIR RAMZAN
8	Problem TBL (Team Based Learning)	ALL TEACHERS
9	Culture Media –I	DR. SHABNUM RUSTAMANI
10	Culture Media –II	DR. SHABNUM RUSTAMANI
11	Problem Based Learning (PBL)	ALL TEACHERS
12	Isolation of Micro Organism/ Lab diagnosis of infection disease	DR. FAHEEM AHMED MEMON
13	Parasites (Worms)	DR. NAZIA HAFEEZ
14	Malarial Parasites	DR. KHALIL AHMED MEMON
15	TBL (Team Based Learning)	ALL TEACHERS
16	REVISION	ALL TEACHERS
17	Staphylococcus	DR. AAMIR RAMZAN
18	Streptococcus	DR. SADIA AKBAR
19	Pneumococcus	DR. YASMEEN BHUTTO
20	TBL (Team Based Learning)	ALL TEACHERS
21	Neisseria	DR. AAMIR RAMZAN
22	Mycobacteria	DR. MUHAMMAD ALI MEMON
23	Coryne bacteria	DR. NAZIA HAFEEZ
24	TBL (Team Based Learning)	ALL TEACHERS
25	Anaerobic bacteria	DR. YASMEEN BHUTTO
26	E. Coli / Klebiella	DR. MUHAMMAD ALI MEMON
27	Salmonella / Shigella	DR. KHALIL AHMED MEMON
28	TBL (Team Based Learning)	ALL TEACHERS
29	Proteus / Pseudomonas	DR. SADIA AKBAR
30	H. Pylori / Campylobacter	DR. SHABNUM RUSTAMANI
31	Candidia	DR. NAZIA HAFEEZ
32	TBL (Team Based Learning)	ALL TEACHERS

DEPARTMENT OF PHARMACOLOGY

S #	TEACHING FACULTY		
01	CHAIRMAN AND PROFESSOR: Professor Dr. Munawar Alam Ansari		
02	ASSOCIATE PROFESSOR: Dr. Muhammad Jamil Laghari		
	ASSISTANT PROFESSORS:		
03	Dr. Gunesh Kumar	04	Dr. Sadat Memon
	LECTURERS		
05	Dr. Shamshad Memon	06	Dr. Aziz Ahmed Solangi
07	Dr. Adila Mangrio	08	Dr. Rizwan Ahmed Memon
09	Dr. Muzna Hameed Dar	10	Dr. Shazia Parveen

LEC. #	CHAPTER: GENERAL PHARMACOLOGY	NAME OF TEACHER
	A: PHARMACOKINETICS	
1	Introduction of Pharmacology I	PROF. MUNAWAR ALAM ANSARI
2	Introduction of Pharmacology II	PROF. MUNAWAR ALAM ANSARI
3	Terminology	DR. SADAT MEMON
4	Routes of Administration of (Enteral) drugs	DR. GUNESH KUMAR
5	Routes of Administration of (Par-entrol) drugs	DR. SHAMSHAD BEGUM
6	Absorption: Process of absorption	DR. SHAZIA PARVEEN
7	Factors modifying drug absorption	DR. SHAZIA PARVEEN
8	Drug Distribution & Reservoir	DR. SADAT MEMON
9	Bioavailability of ½ life + 1 st Pass Effect	DR. GUNESH KUMAR
10	Drug Biotransformation Phase I reactions	DR. SADAT MEMON
11	Drug Biotransformation Phase II reactions	DR. SADAT MEMON
12	Drug Excretion	DR. MUZNA HAMEED DAR
	B: PHARMACODYNAMICS	
13	Introduction to Dynamics	PROF. MUNAWAR ALAM ANSARI
14	Drug Receptors	PROF. MUNAWAR ALAM ANSARI
15	Therapeutics Index	DR. SADAT MEMON
16	Factors Modifying drug action I	DR. MUHAMMAD JAMIL LAGHARI
17	Factors Modifying drug action II	DR. MUHAMMAD JAMIL LAGHARI
18	Adverse drug reaction (ADR)	DR. MUHAMMAD JAMIL LAGHARI
19	Teratogenic drugs	DR. RIZWAN AHMED MEMON
20	General Pharmacology Test	
	CHAPTER: ANS	
21	Introduction to A.N.S	PROF. MUNAWAR ALAM ANSARI
22	Cholinomimetics [Directly Acting]	DR. SADAT MEMON
23	Cholinomimetics reversible [Indirectly Acting]	DR. SADAT MEMON
24	Cholinomimetics irreversible [Indirectly Acting]	DR. SADAT MEMON
25	Anti-cholinergic (Anti-muscarinic)	DR. GUNESH KUMAR
26	Neuromuscular blockers Depolarizing & Non-depolarizing	DR. MUHAMMAD JAMIL LAGHARI
27	Sympathomimetics I	DR. SADAT MEMON
28	Sympathomimetics II	DR. SADAT MEMON
29	Sympatholytics-I (α- blockers)	DR. SADAT MEMON
30	Sympatholytics-II (β-blockers)	DR. SADAT MEMON
31	Sympatholytics-III (β-blockers)	DR. SADAT MEMON

	CHAPTER: CVS	
32	Drug treatment of hypertension I	PROF. MUNAWAR ALAM ANSARI
33	Drug treatment of hypertension II	PROF. MUNAWAR ALAM ANSARI
34	Drug treatment of Angina Pectoris I	DR. GUNESH KUMAR
35	Drug treatment of Angina Pectoris II	DR. GUNESH KUMAR
36	Drug treatment of cardiac failure I	DR. SADAT MEMON
37	Drug treatment of cardiac failure II	DR. SADAT MEMON
38	Lipid Lowering Drugs	PROF. MUNAWAR ALAM ANSARI
39	Anti Arrhythmic Drugs	DR. MUZNA HAMEED DAR
	CHAPTER: DIURETICS	
40	Osmotic & loop diuretics	DR. SADAT MEMON
41	Thiazide, K ⁺ sparing, carbonic anhydrase inhibitor diuretics	DR. SADAT MEMON
	CHAPTER: BLOOD	
42	Drug treatment of Anemia	DR. GUNESH KUMAR
43	Drugs used in disorders of coagulation I	DR. MUHAMMAD JAMIL LAGHARI
44	Drugs used in disorders of coagulation II	DR. MUHAMMAD JAMIL LAGHARI
	CHAPTER: ANTI INFLAMMATORY DRUGS	
45	NSAIDs I	PROF. MUNAWAR ALAM ANSARI
46	NSAIDs II	PROF. MUNAWAR ALAM ANSARI
47	Drug treatment of Gout	DR. GUNESH KUMAR
48	Drug treatment of Rheumatoid Arthritis	DR. SHAMSHAD BEGUM
	CHAPTER: AUTOCOIDS	
49	Prostaglandins	DR. RIZWAN AHMED MEMON
50	HI- Agonist & HI- Antagonist	DR. SADAT MEMON
	CHAPTER: CNS	
51	Introduction (CNS Neurotransmitter)	PROF. MUNAWAR ALAM ANSARI
52	Sedative & Hypnotics[Barbiturates]	PROF. MUNAWAR ALAM ANSARI
53	Sedative & Hypnotics (BDZ, Anxiolytics & Z drugs)	PROF. MUNAWAR ALAM ANSARI
54	The Alcohols I	DR. SADAT MEMON
55	The Alcohols II	DR. SADAT MEMON
56	Opioids Agonist	DR. MUHAMMAD JAMIL LAGHARI
57	Opioids Antagonist	DR. MUHAMMAD JAMIL LAGHARI
58	Anti-Epileptics I	DR. MUHAMMAD JAMIL LAGHARI
59	Anti-Epileptics II	DR. MUHAMMAD JAMIL LAGHARI
60	General Anesthetics I	PROF. MUNAWAR ALAM ANSARI
61	General Anesthetics II	PROF. MUNAWAR ALAM ANSARI
62	Local Anesthetics	DR. SADAT MEMON
63	Drug treatment of Parkinsonism	PROF. MUNAWAR ALAM ANSARI
64	Anti-Psychotic drugs-I	DR. GUNESH KUMAR
65	Anti-Psychotic drugs-II	DR. GUNESH KUMAR
66	Anti-depressant drugs	DR. SADAT MEMON
	CHAPTER: GIT	
67	Emetics & Antiemetic's	DR. MUHAMMAD JAMIL LAGHARI
68	Drug treatment of Acid peptic disease I	DR. SADAT MEMON
69	Drug treatment of Acid peptic disease II	DR. SADAT MEMON
70	Laxative & purgatives	DR. MUHAMMAD JAMIL LAGHARI
	CHAPTER: RESPIRATORY SYSTEM	

71	Drug treatment of Bronchial Asthma & COPD I	PROF. MUNAWAR ALAM ANSARI
72	Drug treatment of Bronchial Asthma & COPD II	PROF. MUNAWAR ALAM ANSARI
	CHAPTER: DRUGS ACTING ON ENDOCRINE SYSTEM	
73	Pancreatic hormones & antidiabetic drugs (Insulin)	DR. MUHAMMAD JAMIL LAGHARI
74	Oral Hypoglycemic drugs	DR. MUHAMMAD JAMIL LAGHARI
75	Oral contraceptives	DR. MUZNA HAMEED DAR
76	Corticosteroids I	DR. GUNESH KUMAR
77	Corticosteroids II	DR. GUNESH KUMAR
78	Oxytocin	DR. SHAZIA PARVEEN
79	Drug treatment of Thyroid disorders I	DR. MUHAMMAD JAMIL LAGHARI
80	Drug treatment of Thyroid disorders II	DR. MUHAMMAD JAMIL LAGHARI
	CHAPTER: ANTI-MICROBIAL THERAPY	
81	Principles of Antimicrobial Therapy I	PROF. MUNAWAR ALAM ANSARI
82	Principles of Antimicrobial Therapy II	PROF. MUNAWAR ALAM ANSARI
83	Penicillin's	DR. SADAT MEMON
84	Cephalosporin's	DR. SADAT MEMON
85	Amino glycosides	DR. GUNESH KUMAR
86	Quinolones	DR. RIZWAN AHMED MEMON
87	Macrolides	DR. MUHAMMAD JAMIL LAGHARI
88	Anti-tubercular drugs I	DR. GUNESH KUMAR
89	Anti-tubercular drugs II	DR. GUNESH KUMAR
90	Sulfonamide & Trimethoprim	DR. MUHAMMAD JAMIL LEGHARI
91	Tetracycline & Chloramphenicol	DR. GUNESH KUMAR
92	Anti-Viral Drugs	DR. SADAT MEMON
93	Chemotherapy of Malignancy I	DR. MUHAMMAD JAMIL LEGHARI
94	Chemotherapy of Malignancy II	DR. MUHAMMAD JAMIL LEGHARI
95	Chemotherapy of Malaria	DR. SADAT MEMON
96	Anti-fungal drugs	DR. MUHAMMAD JAMIL LEGHARI
97	Anti-Helminthes	DR. SHAZIA PARVEEN
98	Chemotherapy of Amoebiasis	DR. SADAT MEMON
99	Antiseptic & disinfectants	DR. SHAHSHAD BEGUM

SUBJECT: PHARMACODYNAMICS
(PRACTICALS IN GROUPS)

NAME OF TEACHERS	
DR. SHAMSHAD MEMON DR. MUZNA HAMEED DAR DR. SHAZIA PARVEEN	
#	TOPICS
	Experiment related to Biostatics
1	Biostatics Introduction (Significance test and grouped clinical data)
2	To describe grouped clinical data of systolic blood pressure of students
3	To study the effect of coffee & ovaltine on pulse rate
4	To study the effect of cola drinks on pulse
5-6	CBS (Case Based Session)
	Experiment related to Pharmacokinetics
7	Time of absorption & excretion of potassium iodide in human being
8	CBS (Case Based Session)
	Experiment related to Rabbit Eye
09	Observation of Normal reflexes of eye
10	Effects of Adrenaline on Rabbit's eye
11	Effects of Xylocaine on Rabbit's eye
12	Effects of Pilocarpine on Rabbit's eye
13	Effects of Atropine on Rabbit's eye
14	Effects of unknown drug on Rabbit's eye
15	CBS (Case Based Session)
16	To prepare 1000 ml of tyrode's solution
17	To prepare 500 ml of dajelan's solution
18	To observe Normal peristaltic movements of Rabbit Intestine on Power lab recording System
19	To observe Effects of Pilocarpine on Isolated piece of Rabbit's Intestine on Power lab recording System
20	Effects of Atropine on Isolated piece of Rabbit's Intestine on Power lab recording System
21	Effects of Histamine on Isolated piece of Rabbit's Intestine on Power lab recording System
22	Effects of Anti-Histamine on Isolated piece of Rabbit's Intestine on Power lab recording System
23	Effects of Barium Chloride on Isolated piece of Rabbit's Intestine on Power lab recording System
24	Effects of Chloral Hydrate on Isolated piece of Rabbit's Intestine on Power lab recording System
25	Effects of unknown drug on Isolated piece of Rabbit's Intestine on Power lab recording System
26	To calculate BMI of 3 rd year MBBS students
27	CBS (Case Based Session)

SUBJECT: PHARMACY (PRACTICALS IN GROUPS)

NAME OF TEACHERS	
DR. AZIZ AHMED SOLANGI DR. ADILA MANGRIO	
P #	TOPICS
1	Introduction to Pharmacology and its various branches + activity
2	Pharmaceutical preparations Enteral and Parenteral + activity
3	Weight & measures and Abbreviations, Instruments used in Pharmacy lab + activity
4	To prepare & dispense 90mls of mixture carminative + activity
5	To prepare & dispense 50mls of Normal Saline solution + 50mls of 5% Dextrose solution
6	To prepare & dispense 20mls of turpentine oil liniment + activity
7	To prepare & dispense 50mls of KMnO ₄ solution + activity
8	To calculate the loading dose for a given patient
9	To calculate the maintenance dose for a given patient
10	Introduction to prescription writing
11	Prescription writing of hypertension
12	Prescription writing of angina pectoris
13-16	CBS (Case Based Session)
17	To prepare and dispense 30 mls of kaolin suspension + activity
18	To prepare and dispense 20 mls of castor oil emulsion + activity
19	Prescription writing of Bacillary dysentery diarrhea + activity
20	Prescription writing of Bronchial Asthma+ activity
21	Prescription writing of Tuberculosis+ activity
22	Prescription writing of Parkinsonism + activity
23	Prescription writing of Epilepsy + activity
24	Prescription writing of Peptic Ulcer + activity
25	Prescription writing of Amoebiasis+ activity
26	Prescription writing of Malaria + activity
27	To prepare 1-liter of ORS
28-32	CBS (Case Based Session)

DEPARTMENT OF FORENSIC MEDICINE

S #	TEACHING FACULTY		
01	PROFESSOR & CHAIRMAN : Prof. Dr. Muhammad Akbar Kazi		
02	ASSOCIATE PROFESSOR : Dr. Waheed Ali Nahyoon		
	ASSISTANT PROFESSORS		
03	Dr. Ishrat Bibi	04	Dr. Aisha Khalid
	LECTURERS	05	Dr. Zafar Ali Seenharo
06	Dr. Nadia Zafar	07	Dr. Memoona Naz
08	Dr. Mahira Kazi	09	Dr. Jamsheed ul Qadir Memon
#	TOPICS		
TEACHER: DR.WAHEED ALI NAHYOON			
1	Introduction of forensic Medicine		
CHAPTER: TRAUMATOLOGY			
2	Introduction		
3	Classification of mechanical injury		
4	Types of wound their diagnostic criteria / difference between ante mortem and post mortem wound		

5	Abrasion (type, age and medico-legal aspect).
6	Bruise (type, age and medico-legal aspect).
7	Laceration (type, age and medico-legal aspect).
8	Penetrating wounds (classification and their medico-legal significance
9	Intracranial hemorrhages and their medico-legal significance
10	Manner of injuries and their medico- legal implications (defense and fabricated wounds).
11	ML aspects or road traffic accidents and issuance of driving license according to prevailing laws 1965.
TEACHER: PROFESSOR. MUHAMMAD AKBAR KAZI	
12	Introduction to Forensic Medicine
CHAPTER: LAW IN RELATION TO MEDICAL MAN	
13	Medical Ethics
14	PMDC functions & role
15	Professional misconduct under section 29-30 of PMDC
16	Medical Negligence and its medico-legal implication
17	Relevant laws regarding wounds (Qisas & Diyat Ordinance 1991)
18	Professional Secrecy
19	Consent in medical practice
TEACHER:DR. AISHA KHALID	
CHAPTER:PERSONAL IDENTIFICATION / SEROLOGY	
20	Personal identity introduction/ parameters
21	Determination of age , Sex and race from bones and teeth
22	Trace evidence identification
23	Medico-legal aspects of blood stains/ spatter pattern
24	Seminal stain and its medico- legal aspects of saliva and hair
25	Dactylography
TEACHER: DR. WAHEED ALI NAHYOON	
CHAPTER:TRAUMATOLOGY	
26	Histological, Histo chemical and bio-chemical methods of determination of age of wound.
27	Burns and their medico-legal importance
28	Electro caution and its medico-legal importance
CHAPTER: FIRE ARM INJURIES	
29	Introduction and types of ballistics
30	Firearm injuries & their medico-legal significance
31	ML significance of firearm distance/ angle
TEACHER: DR. AISHA KHALID	
CHAPTER: PERSONAL IDENTITY/ TOXICOLOGY	
32	Identification in mass disaster
33	Role of acquire peculiarities in identification
34	DNA finger printing
35	Role of toxicology evidence in medical practice
36	Diagnosis of poisoning , acute and chronic in living and dead
37	Duties of medical practitioner in case of poisoning
38	Drug dependence (WHO)criteria
TEACHER: DR. ISHRAT BIBI	
CHAPTER:GENRAL TOXICOLOGY	
39	General principle of management of over dosed patient
CHAPTER: SPECIAL TOXICOLOGY	
40	Alcohol & Alcoholism
41	Drinking & driving
CHAPTER: FORENSIC PSYCHIATRY	
42	Forensic psychiatry and related terms used in psychiatry & mental health ordinance
43	Criminal responsibility and their legal test

TEACHER: DR. WAHEED ALI NAHYOON	
CHAPTER: THANATOLOGY	
44	Introduction
45	Medico-legal investigation
46	Diagnosis of death mode, manner, mechanism & cause of death
47	Changes after death I
48	Changes after death II
49	Changes after death III
50	Estimation of times since death
51	Death certification (WHO format)
52	Euthanasia
CHAPTER: POSTMORTEM EXAMINATION (AUTOPSY)	
53	Autopsy protocol
54	Types of autopsy
55	External and internal examination and specimen collection
56	Exhumation related laws, precautions and procedure
TEACHER: PROFESSOR. MUHAMMAD AKBAR KAZI	
CHAPTER: LEGAL PROCEDURE	
57	Introduction
58	Law, Law courts and legal terminology
59	Evidence types and recording
60	Witness and their types
61	Documents prepared by medical men
TEACHER: DR. ISHRAT BIBI	
CHAPTER: FORENSIC PAEDIATRICS	
62	Sudden infant death syndrome
63	Infanticide
64	Child abuse
TEACHER: DR. AISHA KHALID	
CHAPTER: FORENSIC EXAMINATION	
65	Examination of sexual assault cases
66	Documentation and interpretation of sexual assault cases
67	Role of DNA in sexual assault cases
TEACHER: PROFESSOR MUHAMMAD AKBAR KAZI	
CHAPTER: SEXUAL JURISPRUDENCE	
68	Sexual Jurisprudence (Introduction)
69	Marriage (Muslim Marriage Laws)
70	Hudood Ordinance 1989 and women Protection Bill 2006
71	Natural and Unnatural Sexual offences
72	Impotence, Sterility and legitimacy
TEACHER: DR. AISHA KHALID	
CHAPTER: ASPHYXIAL DEATHS	
73	Asphyxia (introduction, types and classification)
74	Patho physiology of asphyxia
75	Suffocation (types, medico-legal aspects)
76	Hanging (types, medico-legal aspects and autopsy findings)
77	Strangulation (types, medico-legal aspects and autopsy findings)
78	Manual strangulation (throttling)
79	Traumatic, sexual asphyxia
80	Drowning (introduction, mechanism and types)
81	Postmortem finding and medico-legal aspect in case of drowning

SUBJECT: FORENSIC MEDICINE (PRACTICALS IN GROUPS)

Thursday:11:00 AM to 01:00 PM Friday:11:00 AM to 01:00 PM

DR. AISHA KHALID	DR. NADIA ZAFAR	DR. MAHIRA KAZI	DR. JAMSHEED UL QADIR	DR. MEMOONA	DR. MIR KHUD BUX TALPUR
DEMONSTRATION ROOM I	DEMONSTRATION ROOM II	COMMITTEE ROOM	DEMONSTRATION ROOM III	SEMINAR	MUSEUM
DEFINITION & CLASSIFICATION OF POISON	DHATURA POISONING	PARACETOL POISONING	ASPRIN TOXICITY	ARSENIC POISONING	FORRENSIC RADIOLOGY
A1 A2	A3 A4	A5 A6	B1 B2	B3 B4	B5 B6
A3 A4	A5 A6	B1 B2	B3 B4	B5 B6	A1 A2
A5 A6	B1 B2	B3 B4	B5 B6	A1 A2	A3 A4
B1 B2	B3 B4	B5 B6	A1 A2	A3 A4	A5 A6
B3 B4	B5 B6	A1 A2	A3 A4	A5 A6	B1 B2
B5 B6	A1 A2	A3 A4	A5 A6	B1 B2	B3 B4
ESTICIDE POISONING	HYDROGEN SULPHIDE	NAPHATH LINE TOXICITY	BARBITURATE POISONING	DNA IDENTIFICATION LEGAL, MORAL AND ETHICAL ISSUES	FORENSIC RADIOLOGY
A1 A2	A3 A4	A5 A6	B1 B2	B3 B4	B5 B6
A3 A4	A5 A6	B1 B2	B3 B4	B5 B6	A1 A2
A5 A6	B1 B2	B3 B4	B5 B6	A1 A2	A3 A4
B1 B2	B3 B4	B5 B6	A1 A2	A3 A4	A5 A6
B3 B4	B5 B6	A1 A2	A3 A4	A5 A6	B1 B2
B5 B6	A1 A2	A3 A4	A5 A6	B1 B2	B3 B4
NARCOTIC DRUG ABUSE	FUEL POISONING (KEROSENE AND PETROL)	THERMAL INJURIES	FUMIGANTS	VOLATILE SUBSTANCE ABUSE	FORENSIC RADIOLOGY
A1 A2	A3 A4	A5 A6	B1 B2	B3 B4	B5 B6
A3 A4	A5 A6	B1 B2	B3 B4	B5 B6	A1 A2
A5 A6	B1 B2	B3 B4	B5 B6	A1 A2	A3 A4
B1 B2	B3 B4	B5 B6	A1 A2	A3 A4	A5 A6
B3 B4	B5 B6	A1 A2	A3 A4	A5 A6	B1 B2
B5 B6	A1 A2	A3 A4	A5 A6	B1 B2	B3 B4
LEAD POISONING	NICOTINE POISONING	FOOD POISONING	PHOSPHORUS POISONING	ORGANO PHOSPHOROUS POISONING	FORENSIC RADIOLOGY
A1 A2	A3 A4	A5 A6	B1 B2	B3 B4	B5 B6
A3 A4	A5 A6	B1 B2	B3 B4	B5 B6	A1 A2
A5 A6	B1 B2	B3 B4	B5 B6	A1 A2	A3 A4
B1 B2	B3 B4	B5 B6	A1 A2	A3 A4	A5 A6
B3 B4	B5 B6	A1 A2	A3 A4	A5 A6	B1 B2
B5 B6	A1 A2	A3 A4	A5 A6	B1 B2	B3 B4

Thursday:11:00 AM to 01:00 PM Friday:11:00 AM to 01:00 PM					
DR. ISHRAT BIBI	DR. NADIA ZAFAR	DR. MAHIRA KAZI	DR. JAMSHEED-UL- QADIR MEMON	DR. MEMOONA	DR. AISHA KHALID
DEMONSTRATION ROOM I	DEMONSTRATION ROOM II	COMMITTEE ROOM	C-O-D CIVIL HOSPITAL HYDERABAD	SEMINAR	MUSEUM
CANNABIS INDICA	SNAKE BITE	VIRGNITY & ITS MEDICO LEGAL ASPECTS	AUTOPSY PROTOCOL	KALAPATHAR POISONING	CORROSIVES
A1 A2	A3 A4	A5 A6	B1 B2	B3 B4	B5 B6
A3 A4	A5 A6	B1 B2	B3 B4	B5 B6	A1 A2
A5 A6	B1 B2	B3 B4	B5 B6	A1 A2	A3 A4
B1 B2	B3 B4	B5 B6	A1 A2	A3 A4	A5 A6
B3 B4	B5 B6	A1 A2	A3 A4	A5 A6	B1 B2
B5 B6	A1 A2	A3 A4	A5 A6	B1 B2	B3 B4
CARBON MONOXIDE POISONING	HALLUCINOGENS AGENTS (LSD)	PREGNANCY & DELIVERY MEDICO LEGAL ASPECTS	TYPES OF AUTOPSY	TOXICOLOGICAL EVIDENCE FORENSIC & ANALYTICAL ASPECTS	CARDIAC POISONING
A1 A2	A3 A4	A5 A6	B1 B2	B3 B4	B5 B6
A3 A4	A5 A6	B1 B2	B3 B4	B5 B6	A1 A2
A5 A6	B1 B2	B3 B4	B5 B6	A1 A2	A3 A4
B1 B2	B3 B4	B5 B6	A1 A2	A3 A4	A5 A6
B3 B4	B5 B6	A1 A2	A3 A4	A5 A6	B1 B2
B5 B6	A1 A2	A3 A4	A5 A6	B1 B2	B3 B4
HYDROCYANIC ACID	AMPEHTAMINE POISONING	ABORTION ITS TYPES AND RELATED LAWS	HAZARDS OF AUTOPSY	MERCURY POISONING	ALLUMINIUM PHOSPHIDE
A1 A2	A3 A4	A5 A6	B1 B2	B3 B4	B5 B6
A3 A4	A5 A6	B1 B2	B3 B4	B5 B6	A1 A2
A5 A6	B1 B2	B3 B4	B5 B6	A1 A2	A3 A4
B1 B2	B3 B4	B5 B6	A1 A2	A3 A4	A5 A6
B3 B4	B5 B6	A1 A2	A3 A4	A5 A6	B1 B2
B5 B6	A1 A2	A3 A4	A5 A6	B1 B2	B3 B4
COCAINE POISONING	ACONITE POISONING	EXAMINATION OF FEMALE SEXUAL ASSAULT VICTIM	NEGATIVE AUTOPSY	CHLORINATED COMPOUNDS	ESTIMATION OF TIME SINCE DEATH
A1 A2	A3 A4	A5 A6	B1 B2	B3 B4	B5 B6
A3 A4	A5 A6	B1 B2	B3 B4	B5 B6	A1 A2
A5 A6	B1 B2	B3 B4	B5 B6	A1 A2	A3 A4
B1 B2	B3 B4	B5 B6	A1 A2	A3 A4	A5 A6
B3 B4	B5 B6	A1 A2	A3 A4	A5 A6	B1 B2
B5 B6	A1 A2	A3 A4	A5 A6	B1 B2	B3 B4

SUBJECT: SURGICAL SKILLS [SKILL LAB]

THIRD YEAR MBBS

INCHARGE: PROFESSOR ASADULLAH MAKHDOOM

T O P I C S	1	Urinary Catheterization: Male
	2	Urinary Catheterization: Female
	3	Cardiac Examination
	4	Spirometry
	5	Laryngoscopy
	6	EndoTracheal Intubation
	7	Evaluation

BOOKS RECOMMENDED

PHARMACOLOGY

- Text book of Pharmacology by Katzung
- Review of Katzung
- Illustrated Review of Pharmacology by Lippincott

GENERAL PATHOLOGY

- Basic of Pathology Latest Edition (Robbins)
- Basis of Disease of Pathology Latest Edition (Robbins)

MICROBIOLOGY

- Textbook by Levenson
- Textbook by Jawetz

PARASITOLOGY

- Text book by Chatterje
- Text book by Black Lock

FORENSIC MEDICINE

- Text book by C.K Parikh
- Text book by Prof. Naseem Aiwan