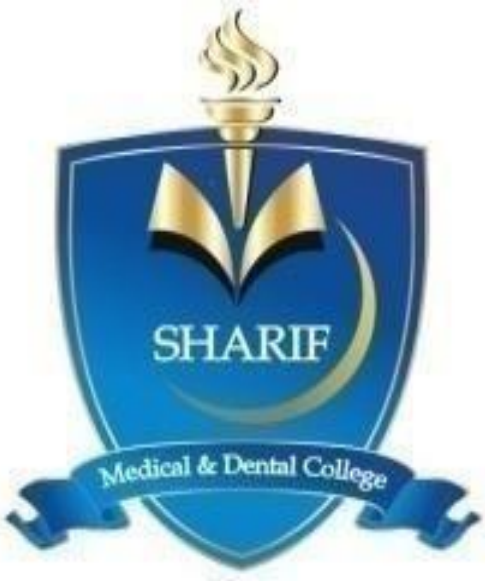

Study Guide
Final Year MBBS

Sharif Medical & Dental College,Lahore 2023

Vision & Mission of UHS

Qualitative and Quantitative Revolution in Medical Education and Research through Evolution and thereby improve Health Care delivery to Populace.

UHS shall be innovative global center of excellence in learning and research, supporting a community of scholars and professionals committed to serving society, promoting the development of students to reach their true potential in becoming competent, ethical, caring and inquiring health professionals for the benefit of the country and the wider world.

Vision of SMDC

To be recognized for the provision of a safe and functional environment conducive to collaborative teaching & learning, comfortable working atmosphere and conducting world class research through professionalism and excellence.

Department of Gynaecology & Obstetrics

PREFACE

Study guides are a major contribution to learning. They are like a tutor sitting beside the student and available 24 hours a day to guide the student what he/she should be doing at any particular stage in the study. Study guides are different from textbooks. These apprise the student at the beginning of an academic session not only about the course outline but also regarding the teaching methodology to be followed throughout the year, learning objectives of each and every academic activity and the assessment methodology that will be followed in an academic session.

The traditional annual academic schedule is followed in Sharif Medical and Dental College. In it the subject of Obstetrics and Gynaecology is taught in the fourth and fifth academic year of a medical student teaching. Keeping in view the mission of University of Health Sciences, Lahore and the vision of our institute a training program has been designed which is intensive and also interesting for the young minds. This guide includes details about various teaching activities and assessments which are to take place throughout these academic years along with the time allocation. Names of faculty have also been mentioned to encourage better interaction between the teacher and the students. A list of prescribed textbooks and reference books is a part of this study guide. Our intention is to improve upon it in the light of the student-feedback every year. We wish you a happy academic session.

Prof. Dr. Maimoona Hafeez,
H.O.D,Obstetrics & Gynecology
Sharif Medical & Dental College, Lahore.

LIST OF CONTENTS

PLANNED TEACHING ACTIVITIES FOR FOURTH YEAR MBBS
DEPARTMENT OF OBSTETRICS & GYNAECOLOGY

To complete the allocated teaching hours in the subject of Obstetrics and Gynaecology for MBBS Course, teaching has been divided in fourth year and final year. A total of 136 hours teaching will be done in fourth year. Following teaching module has been carefully plan to impart essential knowledge, skill and attitude training so that our students are adequately prepared for university examinations as well as their future medical practice.

Lectures:
A total of 47 lectures are planned for the entire year. These lectures will be delivered by the Professor, Associate Professor or Assistant Professor. All of these have completed their post graduation and have adequate experience after that. These lectures will be interactive and student will encouraged to actively participate.

Small Group discussion / Case base learning/ Practical skills/ Seminar:
These will be conducted 5 times a week. On different days, different duration is allocated as is mentioned on page 3. A senior instructor or faculty member will be facilitating these activities.

PLANNED TEACHING ACTIVITIES FOR FINAL YEAR MBBS
DEPARTMENT OF OBSTETRICS & GYNAECOLOGY

To complete the allocated teaching hours in the subject of Obstetrics and Gynaecology for MBBS Course, teaching has been divided in fourth year and final year. A total of 324 hours teaching will be done in final year. Following teaching module has been carefully plan to impart essential knowledge, skill and attitude training so that our students are adequately prepared for university examinations as well as their future medical practice.

Lectures:
A total of 156 lectures are planned for the entire year. These lectures will be delivered by the Professor, Associate Professor or Assistant Professor. All of these have completed their post graduation and have adequate experience after that. These lectures will be interactive and student will encouraged to actively participate.

Small Group discussion / Case base learning/ Practical skills/Seminar:
These will be conducted 6 times a week. On different days, different duration is allocated as is mentioned on page 2. A senior instructor or faculty member will be facilitating these activities.

TOPICS TO BE DISCUSSED IN LECTURES
FOURTH YEAR MBBS CLASS

OBSTETRICS

Sr. #	Topic	Tutor	Venue
1	Introduction to Obs and Gynae	Prof Dr Maimoona Hafeez	Lecture Hall 1 /Zoom
2	Conception and implantation	Prof Dr Fauzia Butt	Lecture Hall 1 /Zoom
3	Physiological changes of pregnancy	Dr NishatAkram	Lecture Hall 1 /Zoom
4	Diagnosis of pregnancy	Dr Rukhsana Zafar	Lecture Hall 1 /Zoom
5	Hyperemesis gravidarum	Dr Shazia Tazion	Lecture Hall 1 /Zoom
6	Physiology of labour	Prof Dr Maimoona Hafeez	Lecture Hall 1 /Zoom
7	Mechanism of labour	Prof Dr Fauzia Butt	Lecture Hall 1 /Zoom
8	Fetal skull and bonny pelvis	Dr NishatAkram	Lecture Hall 1 /Zoom
9	Stages of labour	Dr Rukhsana Zafar	Lecture Hall 1 /Zoom
10	Management of first, second and third stage of labour	Dr Shazia Tazion	Lecture Hall 1 /Zoom
11	Pueperium	Prof Dr Maimoona Hafeez	Lecture Hall 1 /Zoom
12	Obstetrical procedure	Prof Dr Fauzia Butt	Lecture Hall 1 /Zoom
13	Antepartum Haemorrhage	Dr NishatAkram	Lecture Hall 1 /Zoom

GYNAECOLGY LECTURES

1	Anatomy of female genital tract	Prof Dr Maimoona Hafeez	Lecture Hall 1 /Zoom
2	Puberty and adolescence	Prof Dr Fauzia Butt	Lecture Hall 1 /Zoom
3	Menstrual cycle	Dr NishatAkram	Lecture Hall 1 /Zoom
4	Primary and secondary amenorrhoea	Dr Rukhsana Zafar	Lecture Hall 1 /Zoom
5	Surgical procedure	Dr Shazia Tazion	Lecture Hall 1 /Zoom
6	Abnormal uterine bleeding	Prof Dr Maimoona Hafeez	Lecture Hall 1 /Zoom
7	Ectopic pregnancy	Prof Dr Fauzia Butt	Lecture Hall 1 /Zoom
8	Miscarriage	Dr NishatAkram	Lecture Hall 1 /Zoom
9	Menopause	Dr Rukhsana Zafar	Lecture Hall 1 /Zoom

TOPICS TO BE DISCUSSED IN LECTURES
FINAL YEAR MBBS CLASS

OBSTETRICS

Sr. #	Topic	Tutor	Venue
1	Fetal skull and bony pelvis	Prof Dr Maimoona Hafeez	Lecture Hall 2/ Zoom
2	Management of normal first stage of labour	Prof Dr Fauzia Butt	Lecture Hall 2/ Zoom
3	Analgesia in labour	Dr NishatAkram	Lecture Hall 2/ Zoom
4	Management of abnormal 1st stage of labour	Dr Rukhsana Zafar	Lecture Hall 2/ Zoom
5	Management of normal 2nd stage of labour	Dr Shazia Tazion	Lecture Hall 2/ Zoom
6	Management of Abnormal 2nd stage of labour	Prof Dr Maimoona Hafeez	Lecture Hall 2/ Zoom
7	Obstructed labour	Prof Dr Fauzia Butt	Lecture Hall 2/ Zoom
8	3rd stage of labour and its complication	Dr NishatAkram	Lecture Hall 2/ Zoom
9	Obstructed labour	Dr Rukhsana Zafar	Lecture Hall 2/ Zoom
10	Instrumental and operative delivery	Dr Shazia Tazion	Lecture Hall 2/ Zoom
11	Obstetrical shock	Prof Dr Maimoona Hafeez	Lecture Hall 2/ Zoom
12	Transverse lie / obique lie	Prof Dr Fauzia Butt	Lecture Hall 2/ Zoom
13	Umblical cord presentation and prolapse	Dr NishatAkram	Lecture Hall 2/ Zoom
14	Breech presentation	Dr Rukhsana Zafar	Lecture Hall 2/ Zoom
15	Fetal Head malposition,face/ brow presentation	Dr Shazia Tazion	Lecture Hall 2/ Zoom
16	Prolong pregnancy and induction of labour	Prof Dr Maimoona Hafeez	Lecture Hall 2/ Zoom
17	Preterm labour and PPROM	Prof Dr Fauzia Butt	Lecture Hall 2/ Zoom
18	Amniotic fluid abnormality	Dr NishatAkram	Lecture Hall 2/ Zoom
19	APH	Dr Rukhsana Zafar	Lecture Hall 2/ Zoom
20	Anemia in Pregnancy	Dr Shazia Tazion	Lecture Hall 2/ Zoom
21	Peurperium	Prof Dr Maimoona Hafeez	Lecture Hall 2/ Zoom
22	Medical problem in pregnancy (epilepsy,throid disease)	Prof Dr Fauzia Butt	Lecture Hall 2/ Zoom
23	Medical problem in pregnancy (Jaundice hepatitis,Renal disease)	Dr NishatAkram	Lecture Hall 2/ Zoom
24	Pregnancy with diabetes	Dr Rukhsana Zafar	Lecture Hall 2/ Zoom
25	Hypertension in pregnancy	Dr Shazia Tazion	Lecture Hall 2/ Zoom
26	PPH	Prof Dr Maimoona Hafeez	Lecture Hall 2/ Zoom
27	Pregnancy with cardiac disease	Prof Dr Fauzia Butt	Lecture Hall 2/ Zoom
28	IUGR	Dr NishatAkram	Lecture Hall 2/ Zoom
29	Prenatal diagnosis, role of USG in obs	Dr Rukhsana Zafar	Lecture Hall 2/ Zoom
30	Fetal distress and its management	Dr Shazia Tazion	Lecture Hall 2/ Zoom
31	Congenital Anomalies	Prof Dr Maimoona Hafeez	Lecture Hall 2/ Zoom

32	Rh incompatibility	Prof Dr Fauzia Butt	Lecture Hall 2/ Zoom
33	Multiple gestation	Dr NishatAkram	Lecture Hall 2/ Zoom
34	Caesarean section	Dr Rukhsana Zafar	Lecture Hall 2/ Zoom
35	VVAC	Dr Shazia Tazion	Lecture Hall 2/ Zoom
36	IUFD	Prof Dr Maimoona Hafeez	Lecture Hall 2/ Zoom
37	Pelvic floor injuries	Prof Dr Fauzia Butt	Lecture Hall 2/ Zoom
38	Pre pregnancy care and congenital abnormalties	Dr NishatAkram	Lecture Hall 2/ Zoom
39	Perinatal infection	Dr Rukhsana Zafar	Lecture Hall 2/ Zoom
40	Statistics	Dr Shazia Tazion	Lecture Hall 2/ Zoom

GYNAECOLGY (FINAL YEAR)

1	Miscarriages	Prof Dr Maimoona Hafeez	Lecture Hall 2/ Zoom
2	Ectopic pregnancy	Prof Dr Fauzia Butt	Lecture Hall 2/ Zoom
3	Menstural irregularities	Dr NishatAkram	Lecture Hall 2/ Zoom
4	Endometriosis and adenomyosis	Dr Rukhsana Zafar	Lecture Hall 2/ Zoom
5	Gestational trophoblastic disease and choriocarcinoma	Dr Shazia Tazion	Lecture Hall 2/ Zoom
6	Venous thromboembolism	Prof Dr Maimoona Hafeez	Lecture Hall 2/ Zoom
7	Infection of lower genital tract	Prof Dr Fauzia Butt	Lecture Hall 2/ Zoom
8	Infections of upper genital tract	Dr NishatAkram	Lecture Hall 2/ Zoom
10	Genital ulcer	Dr Rukhsana Zafar	Lecture Hall 2/ Zoom
11	Genital TB	Dr Shazia Tazion	Lecture Hall 2/ Zoom
12	Genital fistula	Prof Dr Maimoona Hafeez	Lecture Hall 2/ Zoom
13	Disease of vulva and vagina	Prof Dr Fauzia Butt	Lecture Hall 2/ Zoom
14	Benign diseases of ovary	Dr NishatAkram	Lecture Hall 2/ Zoom
15	Malignant diseases of ovary	Dr Rukhsana Zafar	Lecture Hall 2/ Zoom
16	Benign disease of uterus	Dr Shazia Tazion	Lecture Hall 2/ Zoom
17	Malignant diseases of uterus	Prof Dr Maimoona Hafeez	Lecture Hall 2/ Zoom
18	Benign diseases of cervix	Prof Dr Fauzia Butt	Lecture Hall 2/ Zoom
19	Malignant diseases of cervix	Dr NishatAkram	Lecture Hall 2/ Zoom
20	Urinary incontinence	Dr Rukhsana Zafar	Lecture Hall 2/ Zoom
21	Menopause and HRT	Dr Shazia Tazion	Lecture Hall 2/ Zoom
22	UV prolapsed	Prof Dr Maimoona Hafeez	Lecture Hall 2/ Zoom
23	Sexual dysfunction	Prof Dr Fauzia Butt	Lecture Hall 2/ Zoom
24	Dysmenorrhoea & Dyspareunia	Dr NishatAkram	Lecture Hall 2/ Zoom
25	Subfertility	Dr Rukhsana Zafar	Lecture Hall 2/ Zoom
26	Contraception	Dr Shazia Tazion	Lecture Hall 2/ Zoom
27	Minor gynaecological procedures	Prof Dr Maimoona Hafeez	Lecture Hall 2/ Zoom
28	Major gynaecological procedures	Prof Dr Fauzia Butt	Lecture Hall 2/ Zoom
29	Role of Ulrasound gynae	Dr NishatAkram	Lecture Hall 2/ Zoom
30	Pre operative preparation	Dr Rukhsana Zafar	Lecture Hall 2/ Zoom
31	Post operative preparation	Dr Shazia Tazion	Lecture Hall 2/ Zoom
32	Hirsutism and Virilism	Prof Dr Maimoona Hafeez	Lecture Hall 2/ Zoom

LEARNING OBJECTIVE OF DIFFERENT TOPICS IN OBSTETRICS AND GYNAECOLOGY
FOURTH YEAR MBBS CLASS
OBSTETRICS LECTURES

Sr. No.	Topic	Learning Objective
1	Introduction to Obs and Gynae	The students will be able to understand and differentiate between Obstetrical & Gynaecological Cases. Introduction to Department & teaching curriculum.
2	Conception and implantation	Students will be able to define fertilization & pathophysiology of implantation which will help them in learning the basics of Obstetrics & part of Gynaecology.
3	Physiological changes of pregnancy	To understand the normal physiological changes occurring during pregnancy and to differentiate between normal and abnormal symptoms and signs during pregnancy course.
4	Diagnosis of pregnancy	Students will be able to diagnose pregnancy using symptoms, signs and investigation.
5	Hyperemesis gravidarum	The students will be able to understand the causes, diagnosis and management of Hyperemesis Gravidarum.
6	Physiology of labour	The students will be able to understand the normal physiology of labour
7	Mechanism of labour	To make the students familiar to the series of changes in position and attitude that the fetus undergoes during passage through birth canal. (for vertex presentation &gynaecoid pelvis)
8	Fetal skull and bonny pelvis	The students will be able to understand the anatomy of maternal pelvis and fetal skull
9	Stages of labour	The students will be able to understand the normal physiology of labour
10	Management of first, second and third stage of labour	The students will be able to understand how to ensure the safe delivery of healthy baby to a fit and satisfied mother using minimum interference. To provide appropriate choice for analgesia, position in labour and a pleasant environment to give birth.
11	Pueperium	The students will be able to understand how to Monitor the physiological changes of puerperium. Diagnose and treat any postnatal complication. Establish infant feeding. Give emotional support to mother. Advise about contraception**.**
12	Obstetrical procedure	The students will understand different procedures used in obstetrics, indications, requisites & complications of these procedures.
13	Antepartum Haemorrhage	The students will be able to understand how to Provide initial management patient and to understand the necessasity to deliver the fetus as soon as possible to safe the life of mother or infant

LEARNING OBJECTIVE OF DIFFERENT TOPICS IN OBSTETRICS AND GYNAECOLOGY
FOURTH YEAR MBBS CLASS GYNAECOLGY LECTURES

Sr. No.	Topic	Learning Objective
1	Anatomy of female genital tract	The students can understand names and anatomy of female external& internal genitalia.
2	Puberty and adolescence	To emphasize the physical, social and emotional changes of puberty.
3	Menstrual cycle	By the end of this lecture, students should be able to enumerate different structures and factors required in the establishment andperiodic occurrence of menstrual cycles.
4	Primary and secondary amenorrhoea	To determine the prevalence & etiologic causes of primary andsecondary amenorrhoea
5	Surgical procedure	To understand the indications and limitations of various surgical procedures
6	Abnormal uterine bleeding	To evaluate the patho physiology of various types of abnormal uterine bleeding and their appropriate treatment
7	Ectopic pregnancy	At the end of lecture students will be able to define and know different types of ectopic pregnancy and how to diagnose and manage its different presentations.
8	Miscarriage	By the end of this lecture student will be able to enumerate varioustypes of miscarriages and how to diagnose and treat them.
9	Menopause	By the end of this lecture students should be able to:- • Define menopause • Understand pathophysiology of menopause • Enumerate changes and causes of menopause • Recognize symptoms of menopause Understand mechanism, route of administration and side effect of HRT

LEARNING OBJECTIVE OF DIFFERENT TOPICS IN OBSTETRICS AND GYNAECOLOGY
FINAL YEAR MBBS CLASS
OBSTETRICS

Sr. No.	Topic	Learning Objective
1	Fetal skull and bony pelvis	By the end of this session the students will be able to: • Describe the anatomy of the pelvic inlet, cavity, and outlet • List the diameters of the pelvis and their obstetric importance • Describe the fetal skull and list its diameters
2	Management of normal first stage of labour	By the end of this session the students will be able to: • To ensure the safe delivery of healthy baby to a fit and satisfied mother using minimum interference. • To provide appropriate choice for analgesia ,position in labour and a pleasant environment to give birth.
3	Analgesia in labour	• At the end of lecture students will be able to; • Understand the need and importance of analgesia in differentphases of labour. • Different types of analgesia methods in practice
4	Management of abnormal 1st stage of labour	By the end of this session the students will be able to understand different abnormalities of first stage labour and their management.
5	Management of normal 2nd stage of labour	• By the end of this session the students will be able to: • To ensure the safe delivery of healthy baby to a fit and satisfied mother using minimum interference during 2nd stage oflabour. • To provide appropriate choice for analgesia, position in labour and a pleasant environment to give birth.
6	Management of Abnormal 2nd stage of labour	By the end of this session the students will be able to • understand different abnormalities of first stage labour and theirmanagement.
7	Obstructed labour	• At the end of lecture students will be able to define Obstructed Labour, understand diagnosing and managing different types ofObstructed Labour.
8	3 rd stage of labour and its complications	• At the end of lecture students will be able to diagnose & manage 3 rd • Stage of Labour and its complications.
9	Instrumental and operative delivery	At the end of lecture students will be able to understand different types of instrumental delivery, its indications, contraindications and • possible complications.
10	Obstetrical shock	• At the end of lecture students will be able to understand different types of obstetrical shock ,their diagnosis and management
11	Transverse lie / oblique lie	• At the end of this lecture, students will be able to understand • what is transverse lie, its causes & significance, how to diagnose andmanage it.
12	Umbilical cord presentation and prolapse	• At the end of this lecture, students will be able to understandwhat is umbilical cord presentation and prolapse, its causes & significance, how to diagnose and manage it.
13	Breech presentation	• At the end of this lecture, students will be able to understandwhat is breech presentation, its causes & significance, how to diagnose and manage it.

14	Fetal Head malposition,face/ brow presentation	• At the end of this lecture, students will be able to understand • what are face presentation, brow presentation and malposition of fetalhead, their causes & significance, how to diagnose and manage these..
15	Prolonged pregnancy and induction of labour	• At the end of this lecture, students will be able to understand • what is prolonged pregnancy, its effects on fetus& mother & variousoptions of management.
16	Preterm labour and PPROM	• By the end of this lecture students should be able to • Define preterm labour • Diagnose preterm labour • Understand causes and risk factors of preterm labour • Management of preterm labour
17	Amniotic fluid abnormality	By the end of this lecture the students will understand the amniotic • fluid and its formation, what abnormalities can occur in its volume, causes of aberrant volumes and management of these conditions.
18	APH	• By the end of this lecture students should be able to • Define APH • Diagnose APH • Understand causes and risk factors of APH • Management of APH
19	Anemia in Pregnancy	• At the end of the lecture students will be able to diagnose different types of anaemias and their management in pregnancy.
20	Peurperium	Able to: 1.know definitions 2. make differential diagnosis 3. know management options of puerperal disorders
21	Medical problem in pregnancy (epilepsy,thyroid disease)	• ☐By the end of this lecture, students will be able to understand • various medical disorders during pregnancy, their diagnosis, effectson mother fetus and management of different problems.
22	Medical problem in pregnancy (Jaundice hepatitis,Renal disease)	By the end of this lecture, students will be able to understandvarious medical disorders during • Pregnancy, their diagnosis, effects on mother fetus and management of different problems.
23	Pregnancy with diabetes	• At the end of this lecture students should be able to enumeratedifferent types of diabetes, its complications and management.
24	Hypertension in pregnancy	• Understand the Different types of Hypertensions encounteredin pregnancy. • To deal with these Hypertensions. • Prevention and treatment complications
25	PPH	• By the end of this lecture students should be able to • Define PPH • Diagnose PPH • Understand causes and risk factors of PPH • Management of PPH
26	Pregnancy with cardiac disease	• To understand the diagnosis and management of cardiacpatient in pregnancy • To deal with the complications arising during pregnancy & labour in women with cardiac disease.

27	IUGR	• To understand the causes of low birth weight and IUGR • Management and monitoring • Optimal timing and mode of delivery
28	Prenatal diagnosis, role of USG in obs	By the end of this lecture students should be able to • Understand importance of fetal surveillance • Enumerate different modalities available for fetal assessment • Understand strengths and weaknesses of antenatal fetal monitoring techniques • Interpretation of antenatal fetal monitoring techniques • Impact on maternal and fetal morbidity
29	Fetal distress and its management	By the end of this lecture students should be able to • Define fetal distress • Diagnose fetal distress
		• Understand causes and risk factors of fetal distress • Management of fetal distress
30	Congenital Anomalies	By the end of this lecture, students will be able to understandvarious type of NTD, Cardiac, GI renal abnormalities and chromosomal abnormalities.
32	Rh incompatibility	• At the end of the lecture the students will be able to understand: • Different blood groups • Define types of Isoimmunisation • Aetiology of Rh Isoimmunisation • Prevention of Rh Isoimmunisation • Complications of Rh Isoimmunisation • Management of Rh Isoimmunisation
31	Multiple gestation	By the end of this lecture, students will be able to understand • different types of multiple gestation, causes, diagnosis, complicationand management options.
32	Caesarean section	By the end of this lecture, students will be able to understand • Aims and Objectives • Procedure and Type of C-Section • Pre-operative Preparation • Complications of C-Section
33	VVAC	By the end of this lecture, students will be able to understand • Terms/ definitions • Evaluate the risks to mother and baby • Evidence based for safe practice of VBAC • Knowledge about patient selection
34	IUFD	• At the end of lecture, students will be able to define the missed miscarriage, intra uterine death and still birth. • Causes and management of IUD
35	Pelvic floor injuries	By the end of this lecture, students will be able to understand • different types of pelvic floor injuries, causes, diagnosis andmanagement options.
36	Pre pregnancy care and congenital abnormalties	By the end of this lecture, students will be able to understand pre • pregnancy care and different methods used to diagnose congenitalabnormalties and their management.

37	Perinatal infection	• To understand the common viral and bacterial infections seenin pregnancy that have implications for the mother, fetus and infant. • Learn which infections are included in routine pregnancy screening and the principles of their management • Learn the consequences of perinatal infection on the developing fetus.
38	Statistics	• By the end of this lecture students should be able to • Define maternal mortality & perinatal mortality • Causes of maternal mortality & perinatal mortality • Steps to reduce maternal mortality & perinatal mortality • Understand audit • Familiar with millennium development goals

LEARNING OBJECTIVE OF TOPICS IN OBSTETRICS AND GYNAECOLOGY
FINAL YEAR MBBS CLASS
GYNAECOLGY LECTURES

Sr. No.	Topic	Learning Objective
1	Miscarriages	By the end of this lecture students will be able to enumerate various types of miscarriages and how to diagnose and treat them.
2	Ectopic pregnancy	At the end of lecture students will be able to define and know different types of ectopic pregnancy and how to diagnose and manage its different presentations.
3	Menstural irregularities	By the end of this lecture students will be able to enumerate various types of menstrual irregularities, their causes ,diagnosis and management
4	Endometriosis and adenomyosis	At the end of lecture, students, will be able to understand its causes, predisposing factors, symptoms, signs, diagnosis & treatment of endometriosis & adenomyosis.
5	Gestational trophoblastic disease and choriocarcinoma	At the end of the lecture students will be able to know the classification, pathology, signs and symptoms and management of the gestational trophoblastic disease
6	Venous thromboembolism	At the end of lecture, students, will be able to understand its causes, predisposing factors, symptoms, signs, diagnosis & treatment of venous thromboembolism
7	Infection of lower genital tract	By the end of this lecture, students should be able to tell different causes of vaginal discharge, their clinical presentation, investigations and treatment
8	Infections of upper genital tract	By the end of this lecture, students should be able to tell different causes of upper genital tract infections, their clinical presentation, investigations and treatment
9	Genital ulcer	By the end of this lecture, students should be able to tell different causes of genital ulcers, their clinical presentation, investigations and treatment
10	Genital TB	☐By the end of this lecture, students should be able to tell risk factors of genitalTB, its clinical presentation, investigations and treatment
11	Genital fistula	By the end of this lecture students should be able to • Define and classify genital fistulae • Understand aetiology of genital fistulae Recognize symptoms of genitalfistulae • Investigate genital fistulae • Understand management of genital fistulae
12	Disease of vulva and vagina	By the end of the lecture, student should be able to:- • Understand pathology and management of vulval ulcer and benign condition of vulva and vagina. • Understand management of VIN. • Understand epidemiology and pathology of vulval cancer. • Understand presentation of vulval cancer. • Outline staging and management of vulval cancer.
13	Benign diseases of ovary	By the end of this lecture students should be able to • Enumerate benign diseases of ovary • Understand patho-physiology of benign diseases of ovary • Recognize symptoms of benign diseases of ovary • Outline the management of benign diseases of ovary

14	Malignant diseases of ovary	By the end of this lecture students should be able to • Understand etiology of cancer of ovary • Classify ovarian tumors • Understand pathology of ovarian tumors • Recognize symptoms of ovarian tumors • Staging of ovarian tumors Management of ovarian tumors
15	Benign disease of uterus	By the end of this lecture students should be able to • Enumerate benign diseases of uterus • Understand pathophysiology of benign diseases of uterus • Recognize symptoms of benign diseases of uterus • Management of benign diseases of uterus
16	Malignant diseases of uterus	• Understand incidence & etiology of malignant diseases of uterus Understand pathophysiology of malignant diseases of uterus • Describe diagnostic techniques in diagnosis of malignant diseases of uterus • Recognize • Describe FIGO staging • Management of malignant diseases of uterus
17	Benign diseases of cervix	By the end of this lecture students should be able to • Enumerate benign diseases of cervix • Understand pathophysiology of benign diseases of c • Recognize symptoms of benign diseases of cervix • Management of benign diseases of cervix • Screening for cervical cancer
18	Malignant diseases of cervix	By the end of this lecture students should be able to • Symptoms of cervical cancer • FIGO staging of cervical cancer • Management of cervical cancer
19	Urinary incontinence	By the end of this lecture students should be able to:- • Define urinary incontinence • Understand pathophysiology of urinary incontinence • Enumerate causes and types of urinary incontinence • Recognize symptoms, diagnosis and management of different types of urinary incontinence
20	Menopause and HRT	By the end of this lecture students should be able to:- • Define menopause • Understand pathophysiology of menopause • Enumerate changes and causes of menopause • Recognize symptoms of menopause • Understand mechanism, route of administration and side effect of HRT.
21	UV prolapse	By the end of this lecture students should be able to:- • Define UV prolapse • Understand pathophysiology of UV prolapse • Enumerate changes and causes of UV prolapse • Recognize symptoms, diagnosis and management of different types of UV prolapse
22	Sexual dysfunction	• At the end of this lecture, students will be able to understand ; • the basics of sexual response cycle, types and causes of sexual dysfunction and treatment of sexual dysfunction.

23	Dysmenorrhoea & Dyspareunia	By the end of this lecture,students should be able to • Define dysmenorrhea • Differentiate between primary and secondary dysmenorrhea • Able to manage dysmenorrhea • Define dyspareunia • Differentiate between primary and secondary dyspareunia • Able to manage dyspareunia
24	Subfertility	☐At the end of the lecture students will be able to know the causes of Sub-fertility in males and females and able to manage it.
25	Contraception	• By the end of this lecture students should be able to:- • Define contraception • Enumerate different types of contraception • Understand mode of action, contraindications and side effects of different types of • contraception • Understand importance of natural contraception • Understand importance of permanent contraception.
26	Minor gynaecological procedures	• By the end of this lecture, students should be able to: • Understand indications ,procedure and complications of • Dilatation &curettage • Laparoscopy • Hysteroscopy • Surgical instruments
27	Major gynaecological procedures	• By the end of this lecture, students should be able to: • Understand indications ,procedure and complications of • Hysterectomy • Abdominal • Vaginal
		☐Myomectomy ☐Manchester repair
28	Role of Ultrasoundin Gynae	❑ By the end of this lecture students should be able to • Understand importance of fetal surveillance • Enumerate different modalities available for fetal assessment • Understand strengths and weaknesses of antenatal fetal monitoring • techniques • Interpretation of antenatal fetal monitoring technique • Impact on maternal and fetal morbidity
29	Pre-operative preparation	☐By the end of this lecture, students should be able to understand different steps in pre-operative preparation of the patient
30	Post-operative preparation	☐By the end of this lecture, students should be able to understand different steps in post-operative preparation of the patient
31	Hirsutism and Virilism	• By the end of this lecture, students should be able to understand • Normal /abnormal hair growth • Causes of Hirsutism • Manage Hirsutism.

Continuous Internal Assessment

Internal assessment carries 10% weightage in final professional examination. It will be decided by the performance of student in the whole academic year.

Students' knowledge about the subject is assessed at various levels.

Class Tests are held after the completion of each topic in class lecture hall which includes (a) MCQs (multiple choice questions)
(b) SBAs (single best answer)
(b) SAQs (short answer questions)

Ward tests held in ward f the respectable ward batch. It has two parts
(a) OSPE
(b) Long case and VIVA
Every student is mandatory to pass in the ward test.

Skill Demonstration
Student's knowledge & its effectiveness are checked by skill demonstration on mannequin.

Communication skills
Communication skills of students are polished and assessed in counseling session with patients.

Staff Contacts

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- Assistant Prof Dr. Salma Sadia (Ssadia116@gmail.com)
- Senior Registrar Dr. Seemal Tajassar (tajasarseemal@gmail.com)
- Senior Registrar Dr. Samara Kaleem (samarakaleem@hotmail.com)

RECOMMENDED TEXT BOOKS

1. Obstetrics & Gynaecology by Ten Teachers by Stuart Campbell and Christoph Lees, 20th
2. Obstetrics & Gynaecology by Dr. Arshad Chohan
3. Online Journals and Reading Materials through HEC Digital Library Facility.
4. Illustrated Obstetrics & Gynaecology by Harnett 6th Ed.
5. Dew Hurst's Obstetrics & Gynaecology

Department of Surgery

PREFACE

Dear students, this study guide is an effort from your college and department of General Surgery to facilitate you in improving your understanding and knowledge of this subject and improving your learning as well as performance. The purpose of the study guide is to help you learn the subject of General Surgery. Study guides are different from textbooks. This handbook is designed to make you familiar with the subject, learning objectives, detailed plans of lectures & clinical classes, assessments, and detailed course contents. The handbook is prepared according to the requirements of Pakistan Medical Commission and The University of Lahore guidelines. This guide includes details about various teaching activities which will take place throughout the academic year.

At Sharif Medical and Dental college system what we follow is based on annual assessment in which we teach the subject of General Surgery in all academic years by dividing the syllabi of medical education. The training program we follow is based on the vision of UHS and mission of SMDC. This teaching and training program is friendly and easy to understand for new students. The study guide we developed is detailed and comprehensive. Students can get all the information about the lectures, timetable, ward classes, small group discussion, and paper pattern and marks distribution. List of lectures to be conducted in the session are mentioned with names of the instructors. Every lecture has some purpose and outcome to be achieved that is also included. Complete detail about the examination, surgical procedures and management is included for the students so broad and specific learning objectives are achieved to maximum level. A detail of assessment methods and schedule is also present for students so they can make their timetable for the examination. The entire course outline is given with topic to be taught and the tutors.

Check list of recommended text books are also a part of study guide. We are hopeful that the study guide will be great help for new students.

We from the department of Internal Medicine, Sharif Medical and Dental College wish and pray for your success in future.

May Allah the Greatest of All, helps you and us in achieving this. Ameen.

Prof. Dr. Muhammad Mohsin Gillani
Department of General Surgery
Sharif Medical and Dental College, Lahore
Email: generalsurgery@sharifmedicalcity.org

List of Contents

General student learning objectives

The MBBS medical students at the end of the undergraduate training program in the subject of General Surgery should be able to demonstrate the following outcomes:

- Skillful
- Knowledgeable
- Community health promoter
- Critical thinker
- Professional and role model
- Researcher
- Leader

Course Objectives: At the end of undergraduate training program in the subject of General Surgery, the graduate should possess essential knowledge, skills and attitude in order to enable them to:

- Take comprehensive history, perform detailed physical examination and make a probable diagnosis with a list of differential diagnoses.
- Devise an investigation plan, interpret the information and apply his knowledge.
- Suggest a treatment plan for patients.
- Apprehend and diagnose possible complications.
- Document all aspects properly and timely.
- Write and present the cases.
- Identify medical diseases presenting in out-patients, in-patients and emergency departments.
- Provide primary health care, at the community level.
- Perform essential medical emergency and planned procedures.
- Communicate and counsel effectively with the patient, their families and the community, regarding disease and its relevant issues.
- Understand medical ethical issues and their application in reference to General Surgery.
- Maintain the confidentiality of the patient.
- Counsel patients and families regarding common medical problems.
- Guide the patients and families regarding rehabilitation.
- Understand the prevalence and prevention of the common Public Health Problems related to General Surgery in the community.
- Understand the principles of medical research including medical writing.
- Understand the fundamentals of Information Technology and basic computer software.
- Understands the principles of sterilization and disinfection techniques to prevent infections to the patients and save himself or herself from patients.
- Be a life-long self-directed learner.
- Exhibit Professionalism.
- Competent in Preventive Medicine.

COURSE OUTLINE

1st and 2nd Year MBBS:

The teaching & learning in General Surgery will start from the first 2 years of MBBS along with the basic science subjects. Students will be taught theoretical aspects of General Surgery through lectures only. The topics will be taught in collaboration with the basic sciences heads to impart knowledge about the common clinical problems and Applied Anatomy related to basic subjects. Orthopedics, Neurosurgery and Radiology will be taught in 1stand 2nd year respectively through lectures to provide basic theoretical knowledge about these specialties.

Third Year MBBS:

The students will be taught important symptoms of systems and theoretical aspects of clinical methods etc. in the lectures. Lectures of general Surgery and systemic Surgery will be part of the lecture schedule. In clinical classes in hospital, students will learn the practical aspect of the teachings with real patients. They will be trained to clinically practice the art of history taking, history writing & history presentation in addition to the practice of skills of conducting the clinical examination of patients.

Fourth Year MBBS:

The teaching & learning in Medicine will be continued with addition of teaching actual textbook Surgery in lectures. Lectures of Orthopedics, Urology, Radiology and Anesthesia will be part of the lecture schedule. In clinical classes students will rotated in General Surgery and Urology expected to perform history taking, documentation, presentation and examination under supervision, to pick up the abnormal findings.

Final Year MBBS:

The final year MBBS students are expected to learn Surgery to the level that at the end of the session they should be able to diagnose a patient of common ailments, with the help of history and physical examination. They should be able to devise a plan of investigation and appropriate treatment & rehabilitate. They should also be able to apprehend and prevent the common complications of that problem.

The whole curriculum of Surgery is planned in such a way that it helps in achieving all these learning objectives.

MODES OF INFORMATION TRANSFER

LECTURES:

Lectures are planned to give the theoretical knowledge of the course contents. The main purpose of the lectures is to broadly introduce the topic or disease. The lecture schedule with the name of the tutor is mentioned below in the tabulated form. The lectures are taken at the lecture halls of main college building according to the annual devised schedule or academic calendar. Due to COVID-19 pandemic and lockdown with closure of colleges and universities, the classes were interrupted. Online classes through ZOOM meetings, Google classrooms and other online teaching modes were also started.

CLINICAL TEACHING:

Clinical teaching of students of final year MBBS is done at the affiliated hospitals.

1. Sharif Medical City Hospital, Raiwind Road, Lahore.
2. Ittefaq Hospital, Ferozpur road, Lahore.

Clinical Teaching Strategies:

- Out Door Teaching
- Ward Teaching
  - History taking
  - Clinical methods
  - Bedside teaching
  - Ward rounds
  - Case based learning
- Small group discussions
- Clinical Tutorials
- Clinico-pathological Conference
- Individual presentations and assignments
- Skill lab activities
- OSCE Examination Practice
- Clinical Cards/Log book, to document and monitor clinical training.

Objectives of Clinical Classes / Training:

Clinical classes are meant to develop clinical orientation, and approach in a medical student to make him, knowledgeable and expert in dealing with patients in all aspects including, history taking, general & systematic physical examinations, investigations, treatment, rehabilitations, counseling, follow-ups, and possible complications. Students are taught how to manage a patient as a whole, not the concerned disease only.

TRAINING PROGRAM FOR LECTURE
DEPARTMENT OF GENERAL SURGERY
2nd YEAR MBBS

INCHARGE -Dr Hassan Taqi (consultant)COORDINATOR- Dr. Imran Abbas (PGR)

Date	Day	Time	Topic	Tutor	Book
SURGERY					
February-23					
14-02-23	Tuesday	10:00am11:00am	Surgical anatomy & pathologies of Salivary glands	Dr. Hassan Taqi	Bailey & Love
21-02-23	Tuesday	10:00am11:00am	Surgical anatomy & pathologies of Salivary glands calculi & tumors	Dr. Hassan Taqi	Bailey & Love
28-02-23	Tuesday	10:00am11:00am	Parotidectomy, Frey's syndrome, Bell's palsy	Dr. Hassan Taqi	Bailey & Love
MARCH-23					
07-03-23	Tuesday	10:00am11:00am	**CLASS TEST** (Surgical anatomy & pathologies of Salivary glands calculi & tumors (parotidectomy, Frey`s syndrome, Bell`s palsy))	Dr. Hassan Taqi	Bailey & Love
14-03-23	Tuesday	10:00am11:00am	Pathologies of ventricular system (Hydrocephalus)	Dr. Hassan Taqi	Bailey & Love
21-03-23	Tuesday	10:00am11:00am	Brainstem death & cerebral herniation	Dr. Hassan Taqi	Bailey & Love
28-03-23	Tuesday	10:00am11:00am	Anterior abdominal wall applied anatomy (Surgical skin incisions)	Dr. Hassan Taqi	Bailey & Love
29-03-21	Tuesday	10:00am11:00am	Anterior abdominal wall anesthesia (Nerve block-TAP)	Dr. Hassan Taqi	Bailey & Love
April -23					
1st April-8th April-2023 (Spring Vacations)					
11-04-23	Tuesday	10:00am11:00am	**CLASS TEST**(Pathologies	Dr. Hassan Taqi	Bailey & Love

			of ventricular system (Hydrocephalus) , Brainstem death & cerebral herniation, Anterior abdominal wall applied anatomy (Surgical skin incisions) , Anterior abdominal wall anesthesia (Nerve block-TAP) , Anterior abdominal wall hernias/ Ventral hernias		
18-04-23	Tuesday	10:00am11:00am	Groin hernias (Inguinal)	Dr. Hassan Taqi	Bailey & Love
25-04-23	Tuesday	10:00am11:00am	Groin hernias (Femoral hernias)	Dr. Hassan Taqi	Bailey & Love
May-23					
02-05-23	Tuesday	10:00am11:00am	Groin lumps (Psoas abscess)	Dr. Hassan Taqi	Bailey & Love
09-05-23	Tuesday	10:00am11:00am	Surgical conditions of scrotum & testis	Dr. Hassan Taqi	Bailey & Love
16-05-23	Tuesday	10:00am11:00am	Surgical anatomy of hepatobiliary system	Dr. Hassan Taqi	Bailey & Love
23-05-23	Tuesday	10:00am11:00am	Trauma	Dr. Hassan Taqi	Bailey & Love
	Tuesday	10:00am11:00am	Porto systemic circulation	Dr. Hassan Taqi	Bailey & Love
June-23					
06-06-23	Tuesday	10:00am11:00am	portal hypertension	Dr. Hassan Taqi	Bailey & Love
13-06-23	Tuesday	10:00am11:00am	**CLASS TEST** (Surgical anatomy of hepatobiliary system, Trauma, Porto systemic circulation, portal hypertension)	Dr. Hassan Taqi	Bailey & Love
July-23					
15th June-15th July-23 (Summer Vacations)					
18-07-23	Tuesday	10:00am11:00am	Surgical infections of abdominal viscera's (appendectomy)	Dr. Hassan Taqi	Bailey & Love
25-07-23	Tuesday	10:00am11:00am	Surgical infections of abdominal	Dr. Hassan Taqi	Bailey & Love

			viscera's (Cholecystectomy)		
Aug 2023					
01-08-2023	Tuesday	10:00am11:00am	Perianal pathologies & anatomical considerations (Anal fissure)	Dr. Hassan Taqi	Bailey & Love
08-08-2023	Tuesday	10:00am11:00am	Perianal pathologies & anatomical considerations (perianal abscess)	Dr. Hassan Taqi	Bailey & Love
15-08-2023	Tuesday	10:00am11:00am	Perianal pathologies & anatomical considerations (sinus & fistula)	Dr. Hassan Taqi	Bailey & Love
22-08-2023	Tuesday	10:00am11:00am	Per-rectal and per-vaginal examination & significance	Dr. Hassan Taqi	Bailey & Love
29-08-2023	Tuesday	10:00am11:00am	**CLASS TEST** (Perianal pathologies & anatomical considerations (Hemorrhoids, Anal fissure, perianal abscess, sinus & fistula, Per-rectal and per-vaginal examination & significance)	Dr. Hassan Taqi	Bailey & Love
Sep 2023					
05-09-23	Tuesday	10:00am11:00am	Head & neck trauma (Cranial hematomas & Facial fractures)	Dr. Hassan Taqi	Bailey & Love
12-09-23	Tuesday	10:00am11:00am	Neck incisions & surgical significance of Facial layers of neck	Dr. Hassan Taqi	Bailey & Love
19-09-23	Tuesday	10:00am11:00am	Common neck lumps (Goiter, Hypoglossal cyst, Cystic hygroma, Cervical rib, Cervical lymphadenoathy, Branchial fistula & cyst, SCM tumor,	Dr. Hassan Taqi	Bailey & Love

			Laryngoscope, Pharyngeal pouch)		
26-09-23	Tuesday	10:00am11:00am	Surgical anatomy & pathologies of thyroid gland (thyroidectomy, laryngeal nerve injuries, techniques of airway maintenance)	Dr. Hassan Taqi	Bailey & Love
Oct 2023					
03-10-23	Tuesday	10:00am11:00am	**CLASS TEST** (Surgical anatomy of hepatobiliary system, Trauma, Porto systemic circulation, portal hypertension)	Dr. Hassan Taqi	Bailey & Love
10-10-23	Tuesday	10:00am11:00am	Revision + UQ`s discussion	Dr. Hassan Taqi	Bailey & Love
17-10-23	Tuesday	10:00am11:00am	Revision + UQ`s discussion	Dr. Hassan Taqi	Bailey & Love
24-10-23	Tuesday	10:00am11:00am	Revision + UQ`s discussion	Dr. Hassan Taqi	Bailey & Love
31-10-23	Tuesday	10:00am11:00am	Revision + UQ`s discussion	Dr. Hassan Taqi	Bailey & Love
Nov 2023					
07-11-23	Tuesday	10:00am11:00am	Revision + UQ`s discussion	Dr. Hassan Taqi	Bailey & Love
14-11-23	Tuesday	10:00am11:00am	Revision + UQ`s discussion	Dr. Hassan Taqi	Bailey & Love
SENDUP-EXAMINATION					
PRE-LEAVES					

List of lectures and learning objectives

Sr.No.	Topics	Learning objectives
1.	Head and neck trauma	By the end of lecture, the student will be able to To make students understand applied anatomy of head and neck trauma
2.	Neck incisions and layers of neck	By the end of lecture, the student will be able to Understands applied anatomy of neck incisions
3.	Common neck lumps	By the end of lecture, the student will be able to Understands applied anatomy related to different neck swellings
4.	Thyroid gland	By the end of lecture, the student will be able to Knows applied anatomy of thyroid gland pathologies and anatomy related to thyroid surgery
5.	Palpation of carotid and subclavian arteries	By the end of lecture, the student will be able to Understands the surgical anatomy of major arteries in neck and their significance in hemorrhage control
6.	Salivary glands	By the end of lecture, the student will be able to Know applied anatomy of salivary glands and their pathologies
7.	Ventricular system of brain	By the end of lecture, the student will be able to Knows applied anatomy of brain ventricular system and its significance in different pathologies
8.	Brainstem death and cerebral herniation	By the end of lecture, the student will be able to Know criteria of brainstem death and cerebral herniation
9.	Anterior abdominal wall	By the end of lecture, the student will be able to 1. Know applied surgical anatomy of anterior abdominal wall and surgical skin incisions on anterior abdominal wall 2. Knows surgical anatomy of anterior abdominal wall and anatomy related to TAPP block 3. Knows surgical anatomy of anterior abdominal wall and hernial defects

10.	Groin Swellings	By the end of lecture, the student will be able to 1. Knows applied surgical anatomy of inguinal region and its different pathologies including inguinal, femoral hernias and psoas abcess
11.	Surgical anatomy of scrotum and testis	By the end of lecture, the student will be able to 1. Know applied surgical anatomy of scrotum and pathologies of this region
12.	Per-rectal and per-vaginal examination and significance	By the end of lecture, the student will be able to 1. Know basics of pr and PV examination and their clinical use
13.	Surgical anatomy of hepatobiliary system	By the end of lecture, the student will be able to 1. Understands basic surgical aspects in hepatobiliary system surgical pathologies
14.	Porto systemic circulation	By the end of lecture, the student will be able to 1. Knows applied anatomy and physiology of portosystemic circulation and their surgical pathologies
15.	Portal hypertension	By the end of lecture, the student will be able to 1. Understand the applied anatomy in portal hypertension
16.	Surgical infections of abdominal viscera	By the end of lecture, the student will be able to 1. Understand basic anatomy and pathology of appendicitis 2. Understand basic anatomy and pathology of pancreatitis 3. Understand basic anatomy and pathology of cholecystitis 4. Understand basic anatomy related to appendectomy 5. Understand basic anatomy related to Cholecystectomy
17.	Perianal pathologies and anatomical considerations	By the end of lecture the student will be able to 1. Know applied surgical anatomy related to perianal pathologies-hemorrhoids 2. Know applied surgical anatomy related to perianal pathologies-anal fissure 3. Know applied surgical anatomy related to perianal pathologies-perianal abscess 4. Know applied surgical anatomy related to perianal pathologies- sinus and fistula

TRAINING PROGRAM FOR LECTURE

DEPARTMENT OF GENERAL SURGERY

3RD YEAR MBBS CLASS

INCHARGE -Dr Hassan Taqi (consultant)COORDINATOR- Dr. Imran Abbas (PGR)

Feb-23					
DATE	**DAY**	**TIME**	**TOPIC**	**TUTOR**	**BOOK**
18-02-2023	Saturday	10:45am –11:30am	Orientation to students	Dr. Hassan Taqi	Bailey & Love
25-02-2023	Saturday	10:45am –11:30am	Introduction to surgery	Dr. Hassan Taqi	Bailey & Love
March-23					
04-03-2023	Saturday	10:45am –11:30am	Faciomaxillary trauma	Dr. Hassan Taqi	Bailey & Love
11-03-2023	Saturday	10:45am –11:30am	Head injury	Dr. Hassan Taqi	Bailey & Love
18-03-2023	Saturday	10:45am –11:30am	Abdominal trauma (Blunt)	Dr. Hassan Taqi	Bailey & Love
25-03-2023	Saturday	10:45am –11:30am	Abdominal trauma (penetrating)	Dr. Hassan Taqi	Bailey & Love
April-23					
1st April-8th April-2023 (Spring Vacations)					
15-04-2023	Saturday	10:45am –11:30am	Burns-Introduction	Dr. Hassan Taqi	Bailey & Love
22-04-2023	Saturday	10:45am –11:30am	Burns-Causes, types, degrees	Dr. Hassan Taqi	Bailey & Love
29-04-2023	Saturday	10:45am –11:30am	Burns- Assessment and Management of burns	Dr. Hassan Taqi	Bailey & Love
May-23					
06-05-2023	Saturday	10:45am –11:30am	Chest trauma (penetrating)	Dr. Hassan Taqi	Bailey & Love
13-05-2023	Saturday	10:45am –11:30am	Surgical anatomy and surgery related issues of thyroid	Dr. Hassan Taqi	Bailey & Love
20-05-2023	Saturday	10:45am –11:30am	Assessment of thyroid for its diseases	Dr. Hassan Taqi	Bailey & Love
27-05-2023	Saturday	10:45am –11:30am	Goiter, types and	Dr. Hassan Taqi	Bailey & Love

			management		
June-23					
03-06-2023	Saturday	10:45am –11:30am	Malignancies of thyroid gland	Dr. Hassan Taqi	Bailey & Love
10-06-2023	Saturday	10:45am –11:30am	**Test (Chest trauma (penetrating, Surgical anatomy and surgery related issues of thyroid, Assessment of thyroid for its diseases, Goiter, types and management, Malignancies of thyroid gland)**	Dr. Hassan Taqi	Bailey & Love
15th June-15th July-23 (Summer Vacations)					
July-23					
22-07-2023	Saturday	10:45am –11:30am	Applied anatomy of abdomen wall	Dr. Hassan Taqi	Bailey & Love
29-07-2023	Saturday	10:45am –11:30am	Applied anatomy of thorax	Dr. Hassan Taqi	Bailey & Love
Aug-23					
05-08-2023	Saturday	10:45am –11:30am	Shock	Dr. Hassan Taqi	Bailey & Love
12-08-2023	Saturday	10:45am –11:30am	Management of Shock	Dr. Hassan Taqi	Bailey & Love
19-08-2023	Saturday	10:45am –11:30am	Fluid & Electrolyte	Dr. Hassan Taqi	Bailey & Love
26-08-2023	Saturday	10:45am –11:30am	Fluid & Electrolyte	Dr. Hassan Taqi	Bailey & Love
Sep-23					
02-09-2023	Saturday	10:45am –11:30am	Blood Transfusion	Dr. Hassan Taqi	Bailey & Love
09-09-2023	Saturday	10:45am –11:30am	Hemorrhage	Dr. Hassan Taqi	Bailey & Love
16-09-2023	Saturday	10:45am –11:30am	Management of Hemorrhage	Dr. Hassan Taqi	Bailey & Love
23-09-2023	Saturday	10:45am –11:30am	Management of	Dr. Hassan Taqi	Bailey & Love

			Hemorrhage		
30-09-2023	Saturday	10:45am –11:30am	**Test (shock, Fluid electrolyte, Blood transfusion, Hemorrhage)**	Dr. Hassan Taqi	Bailey & Love
Oct-23					
07-10-2023	Saturday	10:45am –11:30am	Metabolic response to injury	Dr. Hassan Taqi	Bailey & Love
14-10-2023	Saturday	10:45am –11:30am	Wound and tissue repair	Dr. Hassan Taqi	Bailey & Love
21-10-2023	Saturday	10:45am –11:30am	Wound and tissue repair	Dr. Hassan Taqi	Bailey & Love
28-10-2023	Saturday	10:45am –11:30am	**Test (Metabolic response to injury, Wound and tissue repair)**	Dr. Hassan Taqi	Bailey & Love
Nov-23					
04-11-2023	Saturday	10:45am –11:30am	Surgical Site infection	Dr. Hassan Taqi	Bailey & Love
11-11-2023	Saturday	10:45am –11:30am	Surgical Site infection	Dr. Hassan Taqi	Bailey & Love
18-11-2023	Saturday	10:45am –11:30am	Surgical Site infection	Dr. Hassan Taqi	Bailey & Love
25-11-2023	Saturday	10:45am –11:30am	Tropical Infections	Dr. Hassan Taqi	Bailey & Love
Dec-23					
02-12-2023	Saturday	10:45am –11:30am	Tropical Infections	Dr. Hassan Taqi	Bailey & Love
09-12-2023	Saturday	10:45am –11:30am	**Test (SSI, Tropical Infections)**	Dr. Hassan Taqi	Bailey & Love
16-12-2023	Saturday	10:45am –11:30am	Test Discussion	Dr. Hassan Taqi	Bailey & Love

List of lectures and learning objectives

Sr. No.	Topics	Learning objectives
1.	Introduction to General surgery	By the end of lecture, the student will be able to 1. To make students understand basics of general surgery
2.	Use of Antibiotics & Surgical Infection	By the end of lecture, the student will be able to 1. Understands types and use of each antibiotic group; knows types and spectrum of surgical infections
3.	Surgical Prophylaxis, Cellulitis, Abscess, Carbuncle	By the end of lecture, the student will be able to 1. Know prophylaxis of surgical infections, causes and management of cellulitis, carbuncle and abcess.
4.	Necrotizing Fasciitis, Gas gangrene	By the end of lecture, the student will be able to 1. Understand management of necrotizing fasciitis and gas gangrene
5.	Osteomyelitis	By the end of lecture, the student will be able to 1. Know principles of management of osteomyelitis.
6.	Tetanus	By the end of lecture, the student will be able to 1. Understand Prophylaxis of tetanus prone wounds
7.	Wound Healing and repair in soft and hardtissues	By the end of lecture, the student will be able to 1. Know the principles of wound healing
8.	Abnormal Scaring	By the end of lecture, the student will be able to 1. Understand the causes of abnormal wound healing and different types
9.	Shock Classification , presentation and management	By the end of lecture, the student will be able to 1. Understand different types of shock, their difference and basic management principles of shock
10.	Initial assessment andmanagement of Polytrauma - primary survey, secondary and tertiary survey	By the end of lecture, the student will be able to 1. Understands role of FAST & DPL; knows detail of primary, secondary and tertiary surveys
11.	Management of airway	By the end of lecture, the student will be able to

		1. Know basic principles of airway management according to ATLS principles
12.	Management ofC-spine injury	By the end of lecture, the student will be able to 1. Understands basic care of cervical injury
13.	Maxillofacial Trauma	By the end of lecture, the student will be able to 1. Knows principles of management of maxillofacial trauma
14.	Head Injury	By the end of lecture, the student will be able to 1. Understand presentation, severity assessment and management principles of head trauma
15.	Chest trauma(blunt / Crush)	By the end of lecture, the student will be able to 1. Knows primary management of chest trauma
16.	Chest trauma (penetrating)	By the end of lecture, the student will be able to 1. Understands the algorithm of management of penetrating chest trauma
17.	Abdominal Trauma (Blunt)	By the end of lecture, the student will be able to 1. Understands the logarithm of management of blunt abdominal trauma
18.	Abdominal Trauma (Penetrating)	By the end of lecture, the student will be able to 1. Understands the logarithm of management of penetrating abdominal trauma
19.	Extremity trauma	By the end of lecture, the student will be able to 1. Can list clinical presentation and management of soft and bony injuries to extremities
20.	Burns-causes, types, degrees, assessment and management ofburns	By the end of lecture, the student will be able to 1. Knows grades of burn and primary care of burn patients
21.	Surgical anatomy andsurgery relatedissues of thyroid	By the end of lecture, the student will be able to 1. Knows basic anatomy of thyroid
22.	Assessment of thyroid for its disease	By the end of lecture, the student will be able to 1. Knows detail of different investigations
23.	Goiters types & management	By the end of lecture, the student will be able to 1. Understands pathophysiology of different types of goiters

24.	Malignancies of thyroid gland	By the end of lecture, the student will be able to 1. Knows detail of different malignancies
25.	Inflammatory conditions of thyroid gland	By the end of lecture, the student will be able to 1. Understand different types of thyroiditis
26.	Hyperplasia and tumors of parathyroid gland	By the end of lecture, the student will be able to 1. Know about presentation of parathyroid pathologies

TRAINING PROGRAM FOR LECTURE
DEPARTMENT OF GENERAL SURGERY
4th YEAR MBBS CLASS
INCHARGE -Dr Salman Akhtar(consultant)

DATE	DAY	TIME	TOPIC	TUTOR	BOOK
SURGERY					
MARCH-23					
22-03-23	Wednesday	08:30am –9:15pm	Orientation to students	Dr Salman Akhtar	Bailey & Love
29-03-23	Wednesday	08:30am –9:15pm	Introduction	Dr Salman Akhtar	Bailey & Love
APRIL-23					
1ST APRIL- 8TH APRIL (SPRING VACATIONS)					
12-04-2023	Wednesday	08:30am –9:15pm	Patient safety protocols	Dr Salman Akhtar	Bailey & Love
19-04-2023	Wednesday	08:30am –9:15pm	Patient safety protocols	Dr Salman Akhtar	Bailey & Love
26-04-2023	Wednesday	08:30am –9:15pm	Patient safety protocols	Dr Salman Akhtar	Bailey & Love
MAY -23					
03-05-2023	Wednesday	08:30am –9:15pm	Patient safety protocols	Dr Salman Akhtar	Bailey & Love
10-05-2023	Wednesday	08:30am –9:15pm	Surgical site infection	Dr Salman Akhtar	Bailey & Love
17-05-2023	Wednesday	08:30am –9:15pm	Surgical site infection	Dr Salman Akhtar	Bailey & Love
24-05-2023	Wednesday	08:30am –9:15pm	Blood Transfusion	Dr Salman Akhtar	Bailey & Love
31-05-2023	Wednesday	08:30am –9:15pm	Tropical infections	Dr Salman Akhtar	Bailey & Love
JUNE-23					
07-06-2023	Wednesday	08:30am –9:15pm	Burns	Dr Salman Akhtar	Bailey & Love
14-06-2023	Wednesday	08:30am –9:15pm	Burns	Dr Salman Akhtar	Bailey & Love
15TH JUNE – 15TH JULY-23 (SUMMER VACATIONS)					
28-06-2023	Wednesday	08:30am –9:15pm	Hemorrhage	Dr Salman Akhtar	Bailey & Love
JULY-23					
19-07-2023	Wednesday	08:30am –9:15pm	Management of hemorrhage	Dr Salman Akhtar	Bailey & Love
26-07-2023	Wednesday	08:30am –9:15pm	Chest Trauma	Dr Salman Akhtar	Bailey & Love
AUGUST-23					
02-08-2023	Wednesday	08:30am –9:15pm	Chest Trauma	Dr Salman Akhtar	Bailey & Love
09-08-2023	Wednesday	08:30am –9:15pm	Abdomen Trauma (Blunt) (Penetrating)	Dr Salman Akhtar	Bailey & Love
16-08-2023	Wednesday	08:30am –9:15pm	Fluid and electrolyte	Dr Salman Akhtar	Bailey & Love
23-08-2023	Wednesday	08:30am –9:15pm	Thyroid	Dr Salman Akhtar	Bailey & Love
SEPTEMBER-23					
06-09-2023	Wednesday	08:30am –9:15pm	Thyroid	Dr Salman Akhtar	Bailey & Love
13-09-2023	Wednesday	08:30am –9:15pm	Test (Trauma, thyroid, fluid electrolyte)	Dr Salman Akhtar	Bailey & Love
20-09-2023	Wednesday	08:30am –9:15pm	Thyroid-	Dr Salman Akhtar	Bailey & Love

			Malignancies		
27-09-2023	Wednesday	08:30am –9:15pm	Diabetes and Surgical Management	Prof. Mohsin Gillani	Bailey & Love
OCTOBER-23					
04-10-2023	Wednesday	08:30am –9:15pm	Thyroid-Malignancies	Dr Salman Akhtar	Bailey & Love
11-10-2023	Wednesday	08:30am –9:15pm	Wound and tissue repair	Dr Salman Akhtar	Bailey & Love
18-10-2023	Wednesday	08:30am –9:15pm	Wound and tissue repair	Dr Salman Akhtar	Bailey & Love
25-10-2023	Wednesday	08:30am –9:15pm	Test (Thyroid, Wound and tissue repair, DM)	Dr Salman Akhtar	Bailey & Love
NOVEMBER -23					
01-11-2023	Wednesday	08:30am –9:15pm	Pre-operative Preparation	Dr Salman Akhtar	Bailey & Love
08-11-2023	Wednesday	08:30am –9:15pm	Nutrition	Dr Salman Akhtar	Bailey & Love
15-11-2023	Wednesday	08:30am –9:15pm	Nutrition	Dr Salman Akhtar	Bailey & Love
22-11-2023	Wednesday	08:30am –9:15pm	Post-operative Care	Dr Salman Akhtar	Bailey & Love
29-11-2023	Wednesday	08:30am –9:15pm	Test (Pre-operative preparation, nutrition, post op care)	Dr Salman Akhtar	Bailey & Love
DECEMBER-23					
06-12-2023	Wednesday	08:30am –9:15pm	Arterial diseases	Dr Salman Akhtar	Bailey & Love
13-12-2023	Wednesday	08:30am –9:15pm	Venous diseases	Dr Salman Akhtar	Bailey & Love
20-12-2023	Wednesday	08:30am –9:15pm	Lymphatic diseases	Dr Salman Akhtar	Bailey & Love

Days	**Time**	**Venue**
Wednesday	8:30am to 9:15am	Lecture Hall

List of lectures and learning objectives

Sr. No.	Topics	learning objectives
1.	Principles of General surgery	By the end of lecture the student will be able to 1. To make students understand basics of general surgery
2.	Basic surgical skin sutures, drains and dressing	By the end of lecture the student will be able to 1. To understand principles of skin sutures, rational use of drains and principles of dressing
3.	Anastomosis	By the end of lecture the student will be able to 1. Know different types of anastomosis
4.	Laparoscopic surgery	By the end of lecture the student will be able t 1. Know basics of laparoscopic surgery and its pros and cons
5.	Surgical Site Infections	By the end of lecture the student will be able to 1. Understands types and recognition of different SSIs along with their management
6.	Skin and soft tissue infection	By the end of lecture the student will be able to 1. Understands different skin and soft tissue infections
7.	Infection related to health professional	By the end of lecture the student will be able to 1. Understands infection risks faced by health professionals
8.	Sterilization	By the end of lecture the student will be able to 1. Knows basics of different sterilization techniques
9.	Wound healing & repair	By the end of lecture the student will be able to 1. Understands the process of wound healing and factors contributing to poor wound healing and their consequences
10.	Sepsis and Abcess	By the end of lecture the student will be able to 1. Knows how to recognize sepsis, its contributing factors, presentation, consequences and management. 2. Understands abscess formation and its management principles
11.	Blood Transfusion	By the end of lecture the student will be able to 1. Knows different blood components and their use on surgical floor
12.	Hemorrhage	By the end of lecture the student will be able to 1. Knows causes, grades and early recognition along with management of hemorrhage
13.	Principle of plastic	By the end of lecture the student will be able to

	surgery	1. Knows basic principles of plastic surgery
14.	Nutrition and parenteral nutrition	By the end of lecture the student will be able to 1. Knows essential nutritive elements required in surgical patients
15.	Surgery in tropics- Hydatidcyst, Typhoid, Flariasis & Amoebiasis	By the end of lecture the student will be able to 1. Understands pathophysiology, presentation and different treatment options for typhoid, flariasis, amoebic and echinococcus infections
16.	Surgery in tropics- TB	By the end of lecture the student will be able to 1. Understands the burden of TB and surgical management of its complications
17.	Fluids and electrolytes	By the end of lecture the student will be able to 1. Understands effects of disturbed electrolytes and principles of fluid administration in surgical patients
18.	Shock classification, presentation and management	By the end of lecture the student will be able to 1. Knows types of shock with management 2. Knows principles of blood transfusion
19.	Abdominal trauma	By the end of lecture the student will be able to 1. Understands the logarithm of management of abdominal trauma
20.	Burns	By the end of lecture the student will be able to 1. Knows grades of burn and primary care of burn patients
21.	Skin tumors	By the end of lecture the student will be able to 1. Knows types and management plans of different skin malignancies
22.	Principles of oncology	By the end of lecture the student will be able to 1. Can enlist and describe different modalities of treatment of tumors especially their surgical management
23.	Salivary glands	By the end of lecture the student will be able to 1. Knows surgical anatomy of all salivary glands especially Parotid Gland
24.	Thyroid anatomy, investigations and goiters	By the end of lecture the student will be able to 1. Knows basic anatomy of thyroid and detail of different investigations
25.	Thyroid malignancies	By the end of lecture the student will be able to 1. Understands different types of thyroid malignancies and their

		workup
26.	Parathyroid	By the end of lecture the student will be able to 1. Knows applied anatomy and surgical treatment of adenomas
27.	Adrenal gland	By the end of lecture the student will be able to 1. Knows surgical options for adrenal masses
28.	Breast benign lesions	By the end of lecture the student will be able to 1. Knows treatment options for different benign breast lesions
29.	Breast malignancies	By the end of lecture the student will be able to 1. Knows basic pathology and management plans for early to advanced malignancy
30.	Venous disorders	By the end of lecture the student will be able to 1. Knows presentation of DVT, its causes and management

TRAINING PROGRAM FOR LECTURE

DEPARTMENT OF GENERAL SURGERY

5th YEAR MBBS CLASS

INCHARGE- Prof Muhammad Mohsin Gillani

Date	Day	Time	Topic	Tutor	Book
SURGERY					
MARCH-23					
01-03-2023	Wednesday	1:45am-2:30am	Orientation to students	Prof Mohsin Gillani	Bailey & Love
02-03-2023	Thursday	10:15am-11:00am	Introduction of Surgery	Dr Salman Akhtar	Bailey & Love
03-03-2023	Friday	8:30am-9:15am	Introduction to Surgery	Dr Hassan Taqi	Bailey & Love
06-03-2023	Monday	8:30am-9:15am	Shock (Types)	Prof Mohsin Gillani	Bailey & Love
07-03-2023	Tuesday	1:45am-2:30am	Shock (Classification)	Dr Salman Akhtar	Bailey & Love
08-03-2023	Wednesday	1:45am-2:30am	Management of shock	Dr Hassan Taqi	Bailey & Love
09-03-2023	Thursday	10:15am-11:00am	Management of shock	Prof Mohsin Gillani	Bailey & Love
10-03-2023	Friday	8:30am-9:15am	Surgical site infection	Dr Salman Akhtar	Bailey & Love
13-03-2023	Monday	8:30am-9:15am	Surgical site infection	Dr Hassan Taqi	Bailey & Love
14-03-2023	Tuesday	1:45am-2:30am	Surgical site infection	Prof Mohsin Gillani	Bailey & Love
15-03-2023	Wednesday	1:45am-2:30am	Tropical infections	Dr Salman Akhtar	Bailey & Love
16-03-2023	Thursday	10:15am-11:00am	Tropical infections	Dr Hassan Taqi	Bailey & Love
17-03-2023	Friday	8:30am-9:15am	Tropical infections	Prof Mohsin Gillani	Bailey & Love
20-03-2023	Monday	8:30am-9:15am	Diagnostic imaging	Dr Salman Akhtar	Bailey & Love
21-03-2023	Tuesday	1:45am-2:30am	Diagnostic imaging	Dr Hassan Taqi	Bailey & Love
22-03-2023	Wednesday	1:45am-2:30am	Gastrointestinal endoscopy	Prof Mohsin Gillani	Bailey & Love
23-03-2023	Thursday	10:15am-11:00am	Gastrointestinal endoscopy	Dr Salman Akhtar	Bailey & Love
24-03-2023	Friday	8:30am-9:15am	Gastrointestinal endoscopy	Dr Hassan Taqi	Bailey & Love
27-03-2023	Monday	8:30am-9:15am	Tissue diagnosis	Prof Mohsin Gillani	Bailey & Love
28-03-2023	Tuesday	1:45am-2:30am	Tissue diagnosis	Dr Salman Akhtar	Bailey & Love
29-03-2023	Wednesday	1:45am-2:30am	Preoperative preparation	Dr Hassan Taqi	Bailey & Love
30-03-2023	Thursday	10:15am-11:00am	Perioperative management of the high-risk surgical patient	Prof Mohsin Gillani	Bailey & Love
31-03-2023	Friday	8:30am-9:15am	**Test (shock, SSI, Tropical infection, Diagnostic imaging, Gastrointestinal endoscopy, Tissue diagnosis, Preoperative preparation, Perioperative management of the high-risk surgical patient)**	Dr Salman Akhtar	Bailey & Love
April 2023					
1st April to 8th April (Spring Vacations)					

10-04-2023	Monday	8:30am-9:15am	Thyroid	Prof Mohsin Gillani	Bailey & Love
11-04-2023	Tuesday	1:45am-2:30am	Thyroid	Dr Salman Akhtar	Bailey & Love
12-04-2023	Wednesday	10:15am-11:00am	Thyroid	Dr Hassan Taqi	Bailey & Love
13-04-2023	Thursday	8:30am-9:15am	Fluids and Electrolytes	Prof Mohsin Gillani	Bailey & Love
14-04-2023	Friday	8:30am-9:15am	Fluids and Electrolytes	Prof Mohsin Gillani	Bailey & Love
17-04-2023	Monday	8:30am-9:15am	Thyroid	Prof Mohsin Gillani	Bailey & Love
18-04-2023	Tuesday	1:45am-2:30am	Breast	Dr Salman Akhtar	Bailey & Love
19-04-2023	Wednesday	10:15am-11:00am	Breast	Dr Hassan Taqi	Bailey & Love
20-04-2023	Thursday	8:30am-9:15am	Metabolic response to injury	Prof Mohsin Gillani	Bailey & Love
21-04-2023	Friday	8:30am-9:15am	Metabolic response to injury	Prof Mohsin Gillani	Bailey & Love
24-04-2023	Monday	9:00am to 9:45am	Blood transfusion	Prof Mohsin Gillani	Bailey & Love
25-04-2023	Tuesday	8:30am-9:15am	Breast	Dr Salman Akhtar	Bailey & Love
26-04-2023	Wednesday	1:45am-2:30am	**Test (Thyroid, Breast, metabolic response to surgery, fluid and electrolyte)**	Dr Hassan Taqi	Bailey & Love
27-04-2023	Thursday	10:15am-11:00am	Esophagus and stomach	Prof Mohsin Gillani	Bailey & Love
28-04-2023	Friday	8:30am-9:15am	Wound healing and tissue repair	Prof Mohsin Gillani	Bailey & Love
MAY-23					
1-05-2023	Monday	9:00am to 9:45am	Wound healing and tissue repair	Dr Salman Akhtar	Bailey & Love
2-05-2023	Tuesday	8:30am-9:15am	Esophagus and stomach	Dr Hassan Taqi	Bailey & Love
3-05-2023	Wednesday	1:45am-2:30am	Esophagus and stomach	Prof Mohsin Gillani	Bailey & Love
4-05-2023	Thursday	10:15am-11:00am	Esophagus and stomach	Prof Mohsin Gillani	Bailey & Love
5-05-2023	Friday	8:30am-9:15am	Preoperative care including the high-risk surgical patient	Prof Mohsin Gillani	Bailey & Love
8-05-2023	Monday	9:00am to 9:45am	Nutrition	Dr Salman Akhtar	Bailey & Love
9-05-2023	Tuesday	8:30am-9:15am	Esophagus and stomach	Dr Hassan Taqi	Bailey & Love
10-05-2023	Wednesday	1:45am-2:30am	Esophagus and stomach	Prof Mohsin Gillani	Bailey & Love
11-05-2023	Thursday	10:15am-11:00am	**Test (Esophagus & Stomach, Preoperative care,)**	Prof Mohsin Gillani	Bailey & Love
12-05-2023	Friday	8:30am-9:15am	Nutrition	Prof Mohsin Gillani	Bailey & Love
15-05-2023	Monday	9:00am to 9:45am	Nutrition	Dr Salman Akhtar	Bailey & Love
16-05-2023	Tuesday	8:30am-9:15am	Small and large	Dr Hassan Taqi	Bailey & Love

			intestine & Appendix		
17-05-2023	Wednesday	1:45am-2:30am	Small and large intestine & Appendix	Prof Mohsin Gillani	Bailey & Love
18-05-2023	Thursday	10:15am-11:00am	Small and large intestine & Appendix	Prof Mohsin Gillani	Bailey & Love
19-05-2023	Friday	8:30am-9:15am	Postoperative care	Prof Mohsin Gillani	Bailey & Love
22-05-2023	Monday	9:00am to 9:45am	Post operative complications	Dr Salman Akhtar	Bailey & Love
23-05-2023	Tuesday	8:30am-9:15am	Small and large intestine & Appendix	Dr Hassan Taqi	Bailey & Love
24-05-2023	Wednesday	1:45am-2:30am	Small and large intestine & Appendix	Prof Mohsin Gillani	Bailey & Love
25-05-2023	Thursday	10:15am-11:00am	Small and large intestine & Appendix	Prof Mohsin Gillani	Bailey & Love
26-05-2023	Friday	8:30am-9:15am	**Test (Nutrition, Small and large intestine & Appendix, Post operative care & complications**	Prof Mohsin Gillani	Bailey & Love
29-05-2023	Monday	9:00am to 9:45am	Abdominal trauma (Liver & Spleen)	Dr Salman Akhtar	Bailey & Love
30-05-2023	Tuesday	8:30am-9:15am	Colorectal disease	Dr Hassan Taqi	Bailey & Love
31-05-2023	Wednesday	1:45am-2:30am	Colorectal disease	Prof Mohsin Gillani	Bailey & Love
JUNE-23					
01-06-2023	Thursday	10:15am-11:00am	Colorectal disease	Prof Mohsin Gillani	Bailey & Love
02-06-2023	Friday	8:30am-9:15am	Hemorrhage	Dr Salman Akhtar	Bailey & Love
05-06-2023	Monday	9:00am to 9:45am	Peri-anal disease	Dr Hassan Taqi	Bailey & Love
06-06-2023	Tuesday	8:30am-9:15am	**Test (Abdominal & Pelvis Trauma, Hemorrhage, Colorectal Disease, Sterilization & Aseptic Techniques)**	Prof Mohsin Gillani	Bailey & Love
07-06-2023	Wednesday	1:45am-2:30am	Peri-anal disease	Prof Mohsin Gillani	Bailey & Love
08-6-2023	Thursday	10:15am-11:00am	Sterilization & Aseptic Techniques	Prof Mohsin Gillani	Bailey & Love
09-6-2023	Friday	8:30am-9:15am	Arterial disorders	Dr Salman Akhtar	Bailey & Love
12-6-2023	Monday	8:30am-9:15am	Peri-anal disease	Dr Hassan Taqi	Bailey & Love
13-6-2023	Tuesday	8:30am-9:15am	Liver	Prof Mohsin Gillani	Bailey & Love
14-6-2023	Wednesday	1:45am-2:30am	Venous disorders	Prof Mohsin Gillani	Bailey & Love
15-6-2023	Thursday	10:15am-11:00am	Lymphatic disorders	Prof Mohsin Gillani	Bailey & Love

16th June- 15th July (Summer Vacations)					
17-07-2023	Monday	8:30am-9:15am	Liver	Prof Mohsin Gillani	Bailey & Love
18-07-2023	Tuesday	8:30am-9:15am	Hepatobiliary system	Prof Mohsin Gillani	Bailey & Love
19-07-2023	Wednesday	8:30am-9:15am	Pancreas and Spleen	Prof Mohsin Gillani	Bailey & Love
20-07-2023	Thursday	1:45am-2:30am	Burns injuries	Dr Salman Akhtar	Bailey & Love
21-7-2023	Friday	10:15am-11:00am	Principles of plastic surgery	Dr Hassan Taqi	Bailey & Love
24-7-2023	Monday	8:30am-9:15am	Skin lesions	Prof Mohsin Gillani	Bailey & Love
25-7-2023	Tuesday	8:30am-9:15am	Peritoneum, Mesentery and Retroperitoneum space	Prof Mohsin Gillani	Bailey & Love
26-7-2023	Wednesday	8:30am-9:15am	Hernia, Umbilicus and abdominal wall	Prof Mohsin Gillani	Bailey & Love
27-7-2023	Thursday	1:45am-2:30am	Principles of oncology	Dr Salman Akhtar	Bailey & Love
28-7-2023	Friday	10:15am-11:00am	**Test (Liver, Hepatobiliary, Pancreas, spleen Burns injuries)**	Dr Hassan Taqi	Bailey & Love
31-7-2023	Monday	8:30am-9:15am	Cysts, Sinus, Fistula & Wound	Prof Mohsin Gillani	Bailey & Love
August 2023					
01-8-2023	Tuesday	8:30am-9:15am	Hernia, Umbilicus and abdominal wall	Prof Mohsin Gillani	Bailey & Love
02-8-2023	Wednesday	8:30am-9:15am	Parathyroid and Adrenal	Dr Salman Akhtar	Bailey & Love
03-8-2023	Thursday	1:45am-2:30am	Parathyroid and Adrenal	Dr Hassan Taqi	Bailey & Love
04-8-2023	Friday	10:15am-11:00am	Surgical Complication of DM	Prof Mohsin Gillani	Bailey & Love
07-8-2023	Monday	8:30am-9:15am	Surgical Complication of DM	Prof Mohsin Gillani	Bailey & Love
08-8-2023	Tuesday	8:30am-9:15am	**Test (Cysts, Sinus, Fistula & Wound, Parathyroid and Adrenal)**	Prof Mohsin Gillani	Bailey & Love
09-8-2023	Wednesday	8:30am-9:15am	Pituitary gland and Pancreatic endocrine tumor	Dr Salman Akhtar	Bailey & Love
10-8-2023	Thursday	1:45pm-2:30pm	Pituitary gland and Pancreatic endocrine tumor	Dr Hassan Taqi	Bailey & Love
11-8-2023	Friday	10:15am-11:00am	Blunt trauma Abdomen	Prof Mohsin Gillani	Bailey & Love
14-8-2023	Monday	8:30am-9:15am	Blunt trauma Abdomen	Prof Mohsin Gillani	Bailey & Love
15-8-2023	Tuesday	8:30am-9:15am	Salivary gland	Prof Mohsin Gillani	Bailey & Love

16-8-2023	Wednesday	8:30am-9:15am	Salivary gland	Dr Salman Akhtar	Bailey & Love
17-8-2023	Thursday	1:45am-2:30am	Salivary gland	Dr Hassan Taqi	Bailey & Love
18-8-2023	Friday	10:15am-11:00am	Principles of thoracic surgery	Prof Mohsin Gillani	Bailey & Love
21-8-2023	Monday	8:30am-9:15am	Principles of thoracic surgery	Prof Mohsin Gillani	Bailey & Love
22-8-2023	Tuesday	8:30am-9:15am	**Test (Pituitary gland and Pancreatic endocrine tumor, Blunt trauma Abdomen, Salivary gland)**	Prof Mohsin Gillani	Bailey & Love
23-8-2023	Wednesday	8:30am-9:15am	Tumor of Oral Cavity	Dr Salman Akhtar	Bailey & Love
24-8-2023	Thursday	1:45am-2:30am	Tumor of Oral Cavity	Dr Hassan Taqi	Bailey & Love
25-8-2023	Friday	10:15am-11:00am	Principles of thoracic surgery	Prof Mohsin Gillani	Bailey & Love
28-8-2023	Monday	8:30am-9:15am	Head injury (SDH,ADH)	Dr. Farhan Fateh Jang	Bailey & Love
29-8-2023	Tuesday	8:30am-9:15am	Head injury (SAH,ICH)	Dr. Farhan Fateh Jang	Bailey & Love
30-8-2023	Wednesday	8:30am-9:15am	Hydrocephalus	Dr. Farhan Fateh Jang	Bailey & Love
31-8-2023	Thursday	1:45am-2:30am	Space Occupying lesion	Dr. Farhan Fateh Jang	Bailey & Love
SEP-23					
01-9-2023	Friday	10:15am-11:00am	Spinal injury	Dr. Farhan Fateh Jang	Bailey & Love
04-9-2023	Monday	8:30am-9:15am	Basic concepts in anesthesia	Prof Mazhar Iqbal	Bailey & Love
05-9-2023	Tuesday	8:30am-9:15am	Care and monitoring of anesthetized patients	Dr. Sumayya	Bailey & Love
06-9-2023	Wednesday	8:30am-9:15am	Common procedure in anesthesia practice	Prof Mazhar Iqbal	Bailey & Love
07-9-2023	Thursday	1:45am-2:30am	Pharmacology related to anesthesia	Dr. Moazz Barlas	Bailey & Love
08-9-2023	Friday	10:15am-11:00am	Basics of critical care	Prof. Sarmad	Bailey & Love
11-9-2023	Monday	8:30am-9:15am	Basic urology history and examination in LUTS	Prof M.R Zaki	Bailey & Love
12-9-2023	Tuesday	8:30am-9:15am	Urolithiasis +overview of diagnosis and management	Prof M.R Zaki	Bailey & Love
13-9-2023	Wednesday	8:30am-9:15am	Renal cancer basics	Prof M.R Zaki	Bailey & Love

14-9-2023	Thursday	1:45am-2:30am	Bladder Cancer basics	Prof M.R Zaki	Bailey & Love
15-9-2023	Friday	10:15am-11:00am	Prostate Cancer	Prof M.R Zaki	Bailey & Love
18-9-2023	Monday	8:30am-9:15am	Fractures and management	Dr Farooq Azam khan	Bailey & Love
19-9-2023	Tuesday	8:30am-9:15am	Tumors	Dr Bilal Ahmad	Bailey & Love
20-9-2023	Wednesday	8:30am-9:15am	Infections	Dr Farooq Azam khan	Bailey & Love
21-9-2023	Thursday	1:45am-2:30am	Pediatrics orthopedics	Dr Farooq Azam khan	Bailey & Love
22-9-2023	Friday	10:15am-11:00am	**Class test (Orthopedics)**	Dr Bilal Ahmad	Bailey & Love
REVISION					
25-09-2023	Monday	8:30am-9:15am	**Revision Test Esophagus**	Prof Mohsin Gillani	Bailey & Love
26-09-2023	Tuesday	8:30am-9:15am	Test Discussion	Dr Salman Akhtar	Bailey & Love
27-09-2023	Wednesday	8:30am-9:15am	**Revision Test Stomach and duodenum**	Dr Hassan Taqi	Bailey & Love
28-09-2023	Thursday	1:45am-2:30am	Test discussion	Prof Mohsin Gillani	Bailey & Love
EID MILAD UN NABI (PBUH)					
Oct 2023					
02-10-2023	Monday	8:30am-9:15am	**Revision Test Small intestine**	Dr Salman Akhtar	Bailey & Love
03-10-2023	Tuesday	8:30am-9:15am	Test discussion	Dr Hassan Taqi	Bailey & Love
04-10-2023	Wednesday	8:30am-9:15am	**Revision Test Large intestine**	Prof Mohsin Gillani	Bailey & Love
05-10-2023	Thursday	1:45am-2:30am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
06-10-2023	Friday	10:15am-11:00am	**Revision Test Rectum**	Prof Mohsin Gillani	Bailey & Love
09-10-2023	Monday	8:30am-9:15am	Test Discussion	Dr Salman Akhtar	Bailey & Love
10-10-2023	Tuesday	8:30am-9:15am	**Revision Test Anal Canal**	Dr Hassan Taqi	Bailey & Love
11-10-2023	Wednesday	8:30am-9:15am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
12-10-2023	Thursday	1:45am-2:30am	**Revision Test Ant. Abdominal wall and Hernia**	Prof Mohsin Gillani	Bailey & Love
13-10-2023	Friday	10:15am-11:00am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
16-10-2023	Monday	8:30am-9:15am	**Revision Test Liver**	Dr Salman Akhtar	Bailey & Love
17-10-2023	Tuesday	8:30am-9:15am	Test Discussion	Dr Hassan Taqi	Bailey & Love
18-10-2023	Wednesday	8:30am-9:15am	**Revision Test Gallbladder and spleen**	Prof Mohsin Gillani	Bailey & Love
19-10-2023	Thursday	1:45am-2:30am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
20-10-2023	Friday	10:15am-11:00am	**Revision Test Pancreas**	Prof Mohsin Gillani	Bailey & Love
23-10-2023	Monday	8:30am-9:15am	Test Discussion	Dr Salman Akhtar	Bailey & Love
24-10-2023	Tuesday	8:30am-9:15am	**Revision Test Neuro-Surgery**	Dr Hassan Taqi	Bailey & Love

25-10-2023	Wednesday	8:30am-9:15am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
26-10-2023	Thursday	1:45am-2:30am	**Revision Test Anesthesia**	Prof Mohsin Gillani	Bailey & Love
27-10-2023	Friday	10:15am-11:00am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
30-10-2023	Monday	8:30am-9:15am	**Revision Test Urology**	Dr Salman Akhtar	Bailey & Love
31-10-2023	Tuesday	8:30am-9:15am	Test Discussion	Dr Hassan Taqi	Bailey & Love
November 2023					
01-11-2023	Wednesday	8:30am-9:15am	**Revision Test Orthopedics**	Prof Mohsin Gillani	Bailey & Love
02-11-2023	Thursday	1:45am-2:30am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
03-11-2023	Friday	10:15am-11:00am	**Revision Test Thyroid**	Dr Salman Akhtar	Bailey & Love
06-11-2023	Monday	8:30am-9:15am	Test Discussion	Dr Hassan Taqi	Bailey & Love
07-11-2023	Tuesday	8:30am-9:15am	**Revision Test Parathyroid**	Prof Mohsin Gillani	Bailey & Love
08-11-2023	Wednesday	8:30am-9:15am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
09-11-2023	Thursday	8:30am-9:15am	**Revision Test Adrenal Gland**	Prof Mohsin Gillani	Bailey & Love
10-11-2023	Friday	8:30am-9:15am	Test Discussion	Dr Salman Akhtar	Bailey & Love
13-11-2023	Monday	1:45am-2:30am	**Revision Test Breast**	Dr Hassan Taqi	Bailey & Love
14-11-2023	Tuesday	10:15am-11:00am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
15-11-2023	Wednesday	8:30am-9:15am	**Revision Test Breast**	Prof Mohsin Gillani	Bailey & Love
16-11-2023	Thursday	8:30am-9:15am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
17-11-2023	Friday	8:30am-9:15am	**Revision Test Cardiothoracic**	Dr Salman Akhtar	Bailey & Love
20-11-2023	Monday	1:45am-2:30am	Test Discussion	Dr Hassan Taqi	Bailey & Love
21-11-2023	Tuesday	10:15am-11:00am	**Revision Test Surgical Site infections**	Prof Mohsin Gillani	Bailey & Love
22-11-2023	Wednesday	8:30am-9:15am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
23-11-2023	Thursday	8:30am-9:15am	**Revision Test Fluid and electrolyte**	Prof Mohsin Gillani	Bailey & Love
24-11-2023	Friday	8:30am-9:15am	Test Discussion	Dr Salman Akhtar	Bailey & Love
27-11-2023	Monday	1:45am-2:30am	**Revision Test Oncology**	Dr Hassan Taqi	Bailey & Love
28-11-2023	Tuesday	10:15am-11:00am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
29-11-2023	Wednesday	8:30am-9:15am	**Revision Test Burns**	Prof Mohsin Gillani	Bailey & Love
30-11-2023	Thursday	8:30am-9:15am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
December 2023					
01-12-2023	Friday	8:30am-9:15am	**Revision Test Plastic Surgery**	Dr Salman Akhtar	Bailey & Love
04-12-2023	Monday	1:45pm-2:30pm	Test Discussion	Dr Hassan Taqi	Bailey & Love
05-12-2023	Tuesday	10:15am-11:00am	**Revision Test Plastic Surgery**	Prof Mohsin Gillani	Bailey & Love

06-12-2023	Wednesday	8:30am-9:15am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
07-12-2023	Thursday	8:30am-9:15am	**Revision Test Soft tissue infection**	Prof Mohsin Gillani	Bailey & Love
08-12-2023	Friday	8:30am-9:15am	Test Discussion	Dr Salman Akhtar	Bailey & Love
11-12-2023	Monday	1:45pm-2:30pm	**Revision Test Pediatrics surgery**	Dr Hassan Taqi	Bailey & Love
12-12-2023	Tuesday	10:15am-11:00am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
13-12-2023	Wednesday	8:30am-9:15am	**Revision Test Wound and healing**	Prof Mohsin Gillani	Bailey & Love
14-12-2023	Thursday	8:30am-9:15am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
15-12-2023	Friday	8:30am-9:15am	**Revision Test Arterial Diseases**	Dr Salman Akhtar	Bailey & Love
18-12-2023	Monday	1:45pm-2:30pm	Test Discussion	Dr Hassan Taqi	Bailey & Love
19-12-2023	Tuesday	10:15am-11:00am	**Revision Test Venous Discase**	Prof Mohsin Gillani	Bailey & Love
20-12-2023	Wednesday	8:30am-9:15am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
21-12-2023	Thursday	8:30am-9:15am	**Revision Test Lymphatic diseases**	Prof Mohsin Gillani	Bailey & Love
22-12-2023	Friday	8:30am-9:15am	Test Discussion	Dr Salman Akhtar	Bailey & Love
25-12-2023	Monday	1:45pm-2:30pm	**Revision Test Trauma (Chest)**	Dr Hassan Taqi	Bailey & Love
26-12-2023	Tuesday	10:15am-11:00am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
27-12-2023	Wednesday	8:30am-9:15am	**Revision Test Trauma (Abdomen)**	Prof Mohsin Gillani	Bailey & Love
28-12-2023	Thursday	8:30am-9:15am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
29-12-2023	Friday	8:30am-9:15am	**Revision Test Trauma (Extremity)**	Dr Salman Akhtar	Bailey & Love
January 2024					
01-01-2024	Monday	1:45pm-2:30pm	Test Discussion	Dr Hassan Taqi	Bailey & Love
02-01-2024	Tuesday	10:15am-11:00am	**Revision Test Trauma-head and neck**	Prof Mohsin Gillani	Bailey & Love
03-01-2024	Wednesday	8:30am-9:15am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
04-01-2024	Thursday	8:30am-9:15am	**Revision Test General Surgery (Half book)**	Prof Mohsin Gillani	Bailey & Love
05-01-2024	Friday	8:30am-9:15am	Test Discussion	Dr Salman Akhtar	Bailey & Love
08-01-2024	Monday	1:45pm-2:30pm	**Revision Test General Surgery (Half book)**	Dr Hassan Taqi	Bailey & Love
09-01-2024	Tuesday	10:15am-11:00am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
10-01-2024	Wednesday	8:30am-9:15am	**Revision Test General Surgery (Full book)**	Prof Mohsin Gillani	Bailey & Love

11-01-2024	Thursday	8:30am-9:15am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
12-01-2024	Friday	8:30am-9:15am	**Revision Test Systemic Surgery (Half Book)**	Dr Salman Akhtar	Bailey & Love
15-01-2024	Monday	1:45pm-2:30pm	Test Discussion	Dr Hassan Taqi	Bailey & Love
16-01-2024	Tuesday	10:15am-11:00am	**Revision Test Systemic Surgery (Half Book)**	Prof Mohsin Gillani	Bailey & Love
17-01-2024	Wednesday	8:30am-9:15am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
18-01-2024	Thursday	8:30am-9:15am	**Revision Test Systemic Surgery (Full Book)**	Prof Mohsin Gillani	Bailey & Love
19-01-2024	Friday	8:30am-9:15am	Test Discussion	Dr Salman Akhtar	Bailey & Love
22-01-2024	Monday	1:45pm-2:30pm	**Revision Test General and Systemic surgery (Full)**	Dr Hassan Taqi	Bailey & Love
23-01-2024	Tuesday	10:15am-11:00am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
24-01-2024	Wednesday	8:30am-9:15am	**Revision test General and Systemic surgery(Full)**	Prof Mohsin Gillani	Bailey & Love
25-01-2024	Thursday	8:30am-9:15am	Test Discussion	Prof Mohsin Gillani	Bailey & Love
26-01-2024	Friday	8:30am-9:15am	**Revision Test General and Systemic surgery (Full)**	Dr Salman Akhtar	Bailey & Love
29-01-2024	Monday	1:45pm-2:30pm	Test Discussion	Dr Hassan Taqi	Bailey & Love
30-01-2024	Tuesday	10:15am-11:00am	**Revision Test General and Systemic surgery (Full)**	Prof Mohsin Gillani	Bailey & Love
31-01-2024	Wednesday	8:30am-9:15am	Test Discussion	Prof Mohsin Gillani	Bailey & Love

List of lectures and learning objectives

Sr. No	Topics	Learning objectives
1.	Principles of General surgery	By the end of lecture the student will be able to 1. To make students understand basics of general surgery
2.	Metabolic response to injury	By the end of lecture the student will be able to 1. Understand concepts of homeostasis and mechanisms in restoring normal physiology after insult
3.	Surgical anatomy	By the end of lecture the student will be able to 1. Understand principles of surgical anatomy for various operations
4.	Sutures and needles	By the end of lecture the student will be able to 1. Know different types of sutures and needles in common use in surgical practice
5.	Surgical infections and Antibiotics	By the end of lecture the student will be able to 1. Understands types and use of each antibiotic group; knows types and spectrum of surgical infections
6.	Sterilisation and aseptic techniques	By the end of lecture the student will be able to 1. Understand different types of sterilization and principles of asepsis
7.	Blood transfusion	By the end of lecture the student will be able to 1. Know the different blood components and transfusions of blood products on surgical floor
8.	Wound healing & repair	By the end of lecture the student will be able to 1. Understands the process of wound healing
9.	Post operative complications	By the end of lecture the student will be able to 1. Know different post operative complications and their management
10.	Cysts, sinus, fistula and other skin lesions	By the end of lecture the student will be able to 1. Know about causes, types and management of different skin lesions
11.	Principle of plastic surgery	By the end of lecture the student will be able to 1. Knows basic principles of plastic surgery
12.	Nutrition	By the end of lecture the student will be able to 1. Knows essential nutritive elements required in surgical patients
13.	Parenteral nutrition	By the end of lecture the student will be able to 1. Knows basic principles of parenteral nutrition
14.	Fluids and electrolytes	By the end of lecture the student will be able to 1. Understands effects of disturbed electrolytes in surgical patients

15.	Shock classification, presentation and management	By the end of lecture the student will be able to 1. Knows types of shock with management 2. Knows principles of blood transfusion
16.	Trauma types and presentation	By the end of lecture the student will be able to 1. Understands presentation and golden hour concept in trauma care
17.	Abdominal trauma Pelvic trauma	By the end of lecture the student will be able to 1. Understands the logarithm of management of abdominal and pelvic trauma
18.	Burns	By the end of lecture the student will be able to 1. Knows grades of burn and primary care of burn patients
19.	Skin malignancies	By the end of lecture the student will be able to 1. Knows types and management plans of different skin malignancies
20.	Principles of oncology	By the end of lecture the student will be able to 1. Can enlist and describe different treatment
21.	Salivary glands	By the end of lecture the student will be able to 1. Knows surgical anatomy of all salivary glands
22.	Neck swellings	By the end of lecture the student will be able to 1. Knows all neck swellings with diagnostic and therapeutic modalities
23.	Tumors of oral cavity	By the end of lecture the student will be able to 1. Can investigate and know management of carcinomas of oral cavity
24.	Cleft lip & palate	By the end of lecture the student will be able to 1. Knows developmental abnormalities of head and neck and treatment options available.
25.	Thyroid anatomy, goiter types, thyrotxicosis and investigations	By the end of lecture the student will be able to 1. Knows basic anatomy of thyroid and detail of different investigations
26.	Thyroiditis; thyroid malignancies and parathyroid malignancies	By the end of lecture the student will be able to 1. Can describe management of different malignancies of thyroid gland
27.	Adrenal gland	By the end of lecture the student will be able to 1. Knows surgical options for adrenal masses
28.	Pituitary gland	By the end of lecture the student will be able to 1. Surgical pathologies of pituitary gland

29.	Surgical complications of DM	By the end of lecture the student will be able to 1. Understand surgical complications of DM and their management principles
30.	Breast benign lesions	By the end of lecture the student will be able to 1. Knows treatment options for different benign breast lesions
31.	Breast malignancies	By the end of lecture the student will be able to 1. Knows basic pathology and management plans for early to advanced malignancy
32.	Oesophagus benign lesions	By the end of lecture the student will be able to 1. Knows differential of dysphagia and different endoscopic and radiologic investigations; treatment modalities for Foreign bodies, perforation, corrosive injury, Mallory weiss syndrome, Chagas disease, Hiatus hernia, GERD, Barrot's esophagus, Achalasia
33.	Carcinoma oesophagus	By the end of lecture the student will be able to 1. Understands different treatment modalities with merits and demerits
34.	Stomach applied anatomy and benign stomach diseases	By the end of lecture the student will be able to 1. Knows blood supply and lymphatic drainage of stomach with relations and being diseases of stomach
35.	Acid peptic disease	By the end of lecture the student will be able to 1. Surgical options for complications of acid peptic disease
36.	Carcinoma stomach	By the end of lecture the student will be able to 1. Knows staging and surgical treatments of carcinoma breast
37.	Liver	By the end of lecture the student will be able to 1. Knows surgical anatomy, investigation modalities and treatment options for infections, benign and malignant lesions
38.	Gall bladder	By the end of lecture the student will be able to 1. Knows management of gall stone disease with details of laparoscopic cholicystectomy
39.	Pancreatic inflammation	By the end of lecture the student will be able to 1. Can describe diagnostic, prognostic modalities and treatment plan for acute and chronic pancreatitis
40.	Pancreatic malignancies	By the end of lecture the student will be able to 1. Understands surgical procedures for pancreatic cancer treatment.
41.	Obstructive jaundice	By the end of lecture the student will be able to 1. Knows different causes of obstructive jaundice and diagnostic modalities.
42	Spleen	By the end of lecture the student will be able to 1. Knows Trauma management and Surgical aspects of spleen

43.	Small intestine	By the end of lecture the student will be able to 1. Knows how to investigate different small intestinal pathologies and manage surgical complications
44.	Large intestine	By the end of lecture the student will be able to 1. Describe investigative modalities and treatment options of diverticular disease and malignancies
45.	Appendix	By the end of lecture the student will be able to 1. Knows clinical presentation, differentials and management protocols with details of laparoscopic appendectomy
46.	Rectum	By the end of lecture the student will be able to 1. Knows investigative modalities and different types of resections and different types of stoma
47.	Anus & perianal pathologies	By the end of lecture the student will be able to 1. Knows treatment protocols of hemorrhoids, anal fissure, fistulas and malignancies
48.	Peritoneum, Mesentery and Retroperitoneum	By the end of lecture the student will be able to 1. Knows presentation of peritonitis and management
49.	Hernia, Umbilicus and abdominal wall	By the end of lecture the student will be able to 1. Knows different types of hernias, their presentation and different treatment modalities with special emphasis on inguinal, paraumbilical and incisional hernias
50.	Arterial disorders	By the end of lecture the student will be able to 1. Knows presentation of peripheral vascular disease especially management of dry gangrene. Understands presentation of mesenteric ischemia.
51.	Venous disorders	By the end of lecture the student will be able to 1. Knows presentation of DVT, varicose veins and venous ulcers with investigations and operative options.
52.	Lymphatic disorders	By the end of lecture the student will be able to 1. Enlist causes and management of lymphedema. 2. Describe treatment plan for cervical lymphadenitis. 3. Can map out plan for secondaries in neck.
53.	Principles of thoracic surgery	By the end of lecture the student will be able to 1. Knows how to do thoracocentesis and chest intubation. Understands causes of pleural effusion and management.
54.	Principles of anesthesia	By the end of lecture the student will be able to 1. Knows different modalities of anaesthesia with pros and cons of each.
55.	Organ transplantation	By the end of lecture the student will be able to 1. Knows basic principles of organ transplant, investigations and techniques.

COURSE OUTLINE (SURGERY & ALLIED)

Distribution of Subjects:

Paper I:

1. General Surgery,
2. Surgical Anatomy,
3. Principles of Anaesthesia,
4. Principles of Radiology,
5. Principles of Radiotherapy and Chemotherapy.

Paper II:

1. Systematic and Operative Surgery:
2. Musculoskeletal system, GIT,
3. Renal system,
4. Male and female reproductive system,
5. Head and Neck, Thorax,
6. Breast,
7. Nervous system,
8. Cardiovascular System
9. Orthopaedics
10. Traumatology.

The course outline is asfollows
: Systems and theDiseases:

Head, Face and Neck

1. Developmental abnormalities of face, palate, lips.
2. Principles of management of head injuries and its complications.
3. Oral cavity including tongue.
4. Diseases of salivary glands (Inflammation, Calculus, Tumours)
5. Neck lumps including lymph nodes, thyroid and parathyroid **Breast**
1. Diseases of the breast, nipple and areola
2. Benign and malignant tumou

Chest Wall & Thorax

1. Blunt & penetrating injuries and their complications.
2. Lung abscess and empyema thoracis.
3. Tumors and cysts in the lungs.

Gastro Intestinal Tract

1. Diseases causing oesophageal obstruction.
2. Peptic ulcer disease & its complications.
3. Tumours of stomach.
4. Conditions causing chronic abdomen including malignant lesions of small and large bowel
5. Ano-rectal and peri-anal conditions requiring surgery.

Abdominal, Pelvic and Genital Trauma and Hernia.

1. Principles in management of abdominal pelvic and urogenital trauma.
2. Inguinal/ Inguinoscrotal and femoral hernia.
3. Epigastric hernia/umbilical/ para-umblical hernia.
4. Incisional hernia.

Liver:

1. Trauma.
2. Obstructive jaundice.
3. Liver abscess.
4. Hydatid cyst.
5. Malignancy (Hepatoma & secondaries).

Gall Bladder

1. Acute and chronic cholecystitis.
2. Cholelithiasis and its complications.
3. Tumours

Pancreas

1.Acute, relapsing and chronic pancreatitis. 2.Pancreatic masses including cysts

3.Benign and malignant neoplasia.

Spleen

1. Trauma
2. Surgical aspects of spleen

Urinary Tract

1. Common congenital anomalies.
2. Infection & its sequelae.
3. Calculus disease and its sequelae.
4. Bladder lesions.
5. Enlarged prostate.
6. Urogenital trauma.
7. Neoplasms of kidney and urinary tract.

External Genitalia, Male and Female 1.Developmental abnormalities.
2.Common pelvic conditions

Scrotal and testicular lesions
1.Scrotal swelling.
2.Testicular swelling.

Skin & Soft Tissues
1. Common benign and malignant skin lesions.
2. Wounds/ulcers/abscesses/sinuses/fistulae.
3. Soft tissue lumps.

Orthopaedics and Trauma
1. Common congenital malformations of locomotive system.
2. Bone fractures & their complications.
3. Sports injuries and afflictions of tendons and bursae.
4. Bone and joint infections.
5. Arthritis.
6. Bone and cartilage tumours.
7. Spinal trauma.
8. Spinal tumours.
9. Common spinal deformities and other surgically correctable lesions.

Vascular and Nerve Disorders

1. Vascular afflictions and limb ischemia.
2. Varicosities
3. Deep venous thrombosis.
4. Peripheral nerve injuries

Essential Skills to be acquired
1. Provide First Aid: Resuscitation (ABC) of polytrauma, CPR.
2. Collect samples of blood, urine, stool, sputum, pus swab etc.
3. Insert Naso-gastric tube, have observed chest intubation and paracentesis.
4. Do IV cannulation, have observed CV-line insertion and cut- down of veins.
5. Catheterize male and female patients.
6. Prepare the patient for and know the procedure of doing X-Ray chest, abdomen, KUB, bones, IVU, barium studies, ultrasound and other imaging investigations.
7. Principles of pre-operative preparations, sterilization/disinfection techniques.

8. Principles of wound care, skin suturing and suture removal, incision, tissue, lumps, needle biopsies, aspiration of localized fluids, etc.
9. Have observed common surgical procedures, treatment of fracture/ dislocation and methods of general /local anaesthesia.
10. Apply bandage and splint/pop cast to the patient's limbs.
11. Have observed instillation of chemotherapy and principles of radiotherapy.

(I) ORTHOPAEDIC SURGERY & TRAUMATOLOGY

The course outline is as follows:

a.Necessary Applied Basic Sciences With Reference To Orthopedics:

- Pathophysiology of trauma and shock.
- Mechanical properties of bone & soft tissue.
- Biomechanics of fracture.
- Healing & repair (bone & soft tissues).
- Healing principles of fracture.
- Principles of physiotherapy
- Orthotics – orthopaedic appliances to support and correct deformities
- Prosthesis – artificial substitute for missing body parts.

b.Systems and Diseases

1: Congenital & Development Diseases; Congenital talipes equino varus (CTEV) and talipes valgus; congenital dislocation of hip (CDH); flat foot; Perth's disease; Slipped Capital Femoral Epiphysis.

Specific required skills

- Clinical examination and x-ray interpretation of above mentioned diseases
- Observe the manipulation/application of POP cast for CTEV, pelvic harness, Von Rosen splint, hip spica.

Bone dysplasia (defect intrinsic to bone)

Dwarf- Achondroplasia

Bone and joint infections

- Acute osteomyelitis and septic arthritis.
- Chronic osteomyelitis.
- Tuberculous arthritis/Caries spine.
- Osteolysis/bone cyst, sequestrum, periosteal reaction

Specific required skills

- Clinical examination for above mentioned diseases
- Interpretation of related x-ray and laboratory reports

- Observe or assist in joint aspiration, curettage and sequestrectomy, drainage of abscess etc.

4. Metabolic Bone diseases

Rickets; osteomalacia; osteoporosis; hyperparathyroidism; diabetes.

Specific required skills

Interpretation of related X-rays

Interpretation of laboratory reports of serum Ca, PO_4, Alk. phosphatase, parathormone. Management of diabetes with relation to injury /surgical procedure and infections.

5. Neuromuscular disorders

Muscular dystrophies e.g. Duchenne type and Becker's type; spina bifida; cerebral palsy. Post-polio paralysis (PPP); neurofibromatosis

6. Specific required skills

Clinical examination of sensations, deep tendon jerks, muscle power and tone clonus.

Management suggesting and explaining of orthosis, walking aids (walking stick, crutches, walkers), wheel chairs.

Bone Tumours

a. Benign

Exostosis/multiple hereditary exostosis/enchondroma, fibroma, lipoma, neuroma, osteoid osteoma, giant cell tumour.

Malignant

Osteogenic sarcoma, Ewings sarcoma, chondrosarcoma, multiple myeloma, metastatic bone tumors from thyroid, lungs, kidney, breast and prostate.
Principles, indications, techniques and orthotics related to amputation.

Specific Required Skills

- Observe biopsy – needle and open.
- Observe amputation/limb salvage surgery –

7: Neck Pain, Low Back Pain and Sciatica

- Deformities of scoliosis, kyphosis.
- Spinal injury, soft tissue injuries (sprains, strains etc.)
- Fractures (stable, unstable), neurological damage **Specific Required Skills** Examination and basic management.

- Application of cervical collar, cervical traction, lumbosacral corset.
- Observe internal fixation of spinal fracture
- Log rolling, prevention of bed sores, bladder care/catheter care and rehabilitation

8.Arthritis and Musculoskeletal Painful Disorders

- Rheumatoid arthritis, ankylosing spondylitis, osteoarthritis.

- Gout; frozen shoulder; tennis elbow, plantar fasciitis, trigger finger, de Quervains disease. **Specific Required Skills**
- Clinical examination of patients with arthritis (differentiate on x-ray)
- Interpretation of related investigations; x-rays and laboratory.
- Management; prescription writing for arthritis and painful muscle disorders.

9: Soft Tissue Injuries

- Sprains/ruptures of muscles, ligaments, tendons; nerve injuries.
- Arterial injuries clean/contaminated wounds.

10: Fractures

- Basic and advanced trauma life support
- Triage of injured patients in emergency room,
- Principles of fracture classification
- Principals of fracture treatment in children. • Principals of fracture fixation
- Management of common orthopaedic emergencies.
- Mal-united fractures; non-unions.

Specific Required Skills

1. Examination; clinical examination of injured patient; record BP, pulse rate, respiratory rate peripheral pulses and capillary filling; recognition of associated injuries/complicationse.g. Vascular, neurological, vascular compartment syndrome etc.
2. Investigations; request and interpret urine and blood examination in trauma patient (CBC, ESR, blood urea and sugar etc; interpret x-ray of limbs with fractures and dislocations;
3. Catheterize male and female patients.
4. Serving patients with bed pan and urine bottle.
5. Prepare patients for surgeries and post operative care.
6. Dressing of surgical wounds post operatively.
7. Pass nasogastric tube.
8. Injections I/V and I/M.
9. Interpret and explain the urine, stool and blood findings with relevance to orthopaedic diseases.
10. Request and interpret x-rays, ultrasound, CT, MRI scans
11. Management; provide first aid to a person with bone injury like common sprains, fractures and dislocations (immobilization of body part, resuscitation of injured patient.
12. Apply dressings, splints, plasters and other immobilization techniques in fracture patients in emergency; maintain clear airway of patient; reductions and observation of surgical fixations; internal and external fixation of fractures (plates, nails others); manipulation and

application of plaster of paris cast/back slab; use of external fixators in treatment of open fractures; application of traction skin/skeletal.

(II)ANAESTHESIOLOGY

The course outline is as follows :

- Pre-operative assessment of patients and pre-medication
- Local anaesthesia oLocal anaesthetic agents (pharmacology) oRegional anaesthesia (spinal and epidural)
- Intravenous anaesthetic agents
- Muscle relaxants
- Inhalational anaesthetic agents
- Anaesthesia and associated diseases.
- Complications of anaesthesia.
- Perioperative management.
- Cardiopulmonary Resuscitation. CPR.
- Recovery from anaesthesia. Pain management and postoperative care.

LOG BOOK

The submission of a complete logbook duly signed by Head of Department should be compulsory to appear in final professional examination.

PROCEDURES

1. Pre-operative assessment of the patient.
2. I/V cannulation and Intra-operative fluid management.
3. Demonstration of induction of general anaesthesia and tracheal intubation.
4. Demonstration of spinal block.
5. Demonstration of epidural block.
6. Demonstration of local blocks in Eye, ENT and General Surgery.
7. Demonstration of CPR.
8. Post-operative care/pain management.
9. Introduction to the ICU.
10. Demonstration of anaesthesia machine and other instruments
11. Demonstration of sterilization procedures in O.T and ICU.
12. Demonstration of vital sign monitors and their application

(III)RADIOLOGY

The student will be able to:

- Select/advice the required radiological examination correctly
- Identify gross abnormalities in the films

- List indications and advantages of modern techniques
- Recognize major abdominal viscera and their imaging characters Required Radiological Examinations and Abnormalities

Plain Radiography

Chest

- Normal anatomy and projections
- Pneumothorax
- Pneumonia
- Effusion
- Cardiomegaly
- Plumonary oedema
- Fractures
- Surgical emphysema
- Neoplastic Diseases
- Chronic inflammatory disease

Skull

- Normal anatomy and projections
- Fracture
- Lytic and sclerotic lesion
- Calcifications
- Pituitary fossa
- Paranasal sinuses

Abdomen

- Normal anatomy and projections
- Renal & urinary tract stones, gall stones and other calcifications
- Free gas under diaphragm, (perforation)
- Enlarged liver and spleen

Spine

- Normal anatomy and projections.
- Disc space reduction
- Vertebral collapse

Barium Meal and with double contrast (where applicable)

- Normal anatomy and various projections
- Gastric outlet obstruction
- Stomach mass/filling defect
- Esophageal outline/varices/strictures
- Intussusception
- Colonic defects

- Malabsorption pattern
- Stricture
- Any filling defects
- Ulcerative colitis

Intravenous Urogram

- Hydronephrosis and renal masses

Micturating Cystourethrogram

- Reflux

Cholecystogram

- Gall bladder diseases and stones

Echocardiogram

- Be able to interpret the report

CT Scanning

- Be able to interpret the report

MRI

- Basic principle

THE LOG BOOK/ CLINICAL CARD RECORD:

The log book is a collection of evidence that learning has taken place, it is a reflective record of achievements. The students are expected to make a record of his/her achievements in the log book. The log book shall also contain a record of the procedures which student would have performed in final year.

FEEDBACK:

The teaching faculty will give constructive feedback on the performance of the students. This will be individual in clinical classes and collective in class tests and mega tests (however students who fail to perform well in tests or those who want to know about their performance may be given individual feedback). Students should take all the feedbacks in positive spirit & attitude to find out the level of their performance, areas where they need improvements and suggestions and guidance from the teachers, how to improve the weaknesses etc. the sole purpose of feedbacks is to improve the learning of students.

ATTENDANCE:

- Students are required to ensure maximum attendance in all sections including lectures and clinical classes.
- Minimum attendance to qualify for appearing in final professional examination is 75% of lectures and clinical classes. But this is not the desired level. All students should make sure that they attend the classes 100%, except some unavoidable circumstances. Because missing one lecture or clinical class means one has missed a topic, a disease or a very important aspect of the subject.
- If a student is continuously absent for 07 days or more, his /her name will be stuck off from the college, and he /she will have to get re-admission after consideration by the administration.

CONTINUOUS INTERNAL ASSESSMENT

Internal assessment carries 10% weightage in final professional examination. It will be decided by the performance of student in the whole academic year.

Course Learning Outcomes and assessment methods:

At the end of the session / section; the student will be able to

1. Diagnose a case scenario
2. Devise an investigation plan
3. Write down a comprehensive management plan
4. Describe the common complications and their management
5. Knows the follow up & rehabilitation plan of the common as well as important diseases of a particular system.

FORMATIVE ASSESSMENT (MCQ/SEQ TEST);

There is continuous internal assessment in the form of MCQ's SAQ's, OSPE and Viva.

Subject		Marks	Evaluation Tool
General Surgery	Class test 1 2 3 4 5 6	30 each test	MCQ's, SAQ's MCQ's, SAQ's MCQ's, SAQ's MCQ's, SAQ's MCQ's, SAQ's MCQ's, SAQ's
	Ward test	100	OSPE & Viva
Systemic Surgery	Class test 1 2 3 4 5 6	30 each test	MCQ's, SAQ's MCQ's, SAQ's MCQ's, SAQ's MCQ's, SAQ's MCQ's, SAQ's MCQ's, SAQ's
	Ward test	100	OSPE &Viva

Staff contacts

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4	Dr Hassan Taqi	hassantaqi49@yahoo.com
5	Dr Imran Abbas	narmi251@gmail.com
6	Dr Rida Fatima	Ridafatima3969@gmail.com

Recommended books

- Bailey & Love's Short Practice of Surgery 27th Edition
- The Washington Manual of Surgery, 8th Edition
- Netter's surgical anatomy review

Learning resources

- Lectures
- Small group demonstrations and discussion
- Outpatient department clinical evaluation as short cases
- Causality and Emergency room clinical examination and management logarithmlearning ATLS
- Ward rounds / bedside teaching and skills training of pre and post operative care aslong cases
- Operation room observations and assistance
- Post emergency morning meetings
- Morbidity committee meeting
- Mortality committee meeting
- Journal club
- CPC in collaboration with other specialties including Department of Radiology andPathology etc.
- Videos on clinical signs and operative procedures
- Skill labs/models
- Seminars
- Study Guide

Resource person:

- **Prof Muhammad Mohsin Gillani** (HOD General Surgery)
- **Dr Salman Akhtar** (Assistant professor General Surgery)
- **Dr. Hassan Taqi** (Senior Registrar)

Department of Medicine

Preface

Dear students, this study guide is an effort from your college and department of Internal Medicine to facilitate you in improving your understanding and knowledge of this subject and improving your learning as well as performance. This handbook is designed to make you familiar with the subject, learning objectives, detailed plans of lectures & clinical classes, assessments, and detailed course contents. The handbook is prepared according to the requirements of Pakistan Medical Commission and The University of Lahore guidelines.

The noble purpose of making you a competent, responsible, knowledgeable, lifelong learner and ethical doctor will only be possible if you work hard and pay extra attention,take keen interest and make untiring efforts to understand and practice notonly the subject ofInternal Medicine but your whole curriculum. You can make this possible with your discipline, punctuality, attention, dedication, and self-organization. You are always welcome to come to the department for anything concerning your understanding of the subject or any academic difficulty you face.

“This document is an outline provided for the guidance of the students to learn & understand Medicine well. Students must clearly understand that no book can completely cover the vastness of the subject of Medicine. Students need to study a variety of books / literature in addition to all the teachings & trainings he/ she receives from the teachers to become a good physician.”

We from the department of Internal Medicine, Sharif Medical and Dental College wish and pray for your success in future.

May Allah the Greatest of All, helps you and us in achieving this. Ameen.

Department of Internal Medicine
Sharif Medical and Dental College
Lahore
Email: medicine.smdc@gmail.com

Table of content:

OUR VALUES

All we do is guided by our commitment to excellence and innovation, and our values ofprofessionalism, which include:

- Compassion
- Integrity and honesty
- Respect and collaboration
- Openness and team work
- Connectedness to our communities
- Altruism Professionalism
- Life-long learning attitude

OUR GOALS

Department of Medicine as goals, want our students to learn clinical skills so as to provide exemplary, scientifically-based health services to the population. We aim to ensure that available and new knowledge are used to improve the care and well-being of society at all levels.

- Excellence in learning.
- Excellence in Patient's care.
- Excellence in handling acute medical conditions
- Excellence in research.
- Problem solving skills.
- Develop a life-long learning attitude.
- Inculcating professionalism amongst undergraduates
- Cultivate a sense of responsibility for one's own behavior and values.

Faculty:

Prof. Ayub Latif Khawaja
MBBS, MRCP
Professor & Head of Medicine DepartmentCPSP
Supervisor & Examiner

Prof. Taj Jamshaid
MBBS, FCPS, FPSIM, CHPE, CHR, MACG
Professor of Medicine
CPSP Supervisor & Examiner

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Dr. Aftab Rabbani
MBBS, MRCP
Associate Professor of Medicine

Dr. Imran Joher
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Associate Professor of Medicine

Dr. Zaheer Akhter
MBBS, MRCP, DTCD
Assistant Professor of Medicine

Dr. Irfan Ahmad
MBBS, FCPS
Assistant Professor of Nephrology

Dr. Amina Malik
MBBS, MRCP
Assistant Professor of Neurology

Dr. Faisal Masood
MBBS, MD
Assistant Professor of Medicine

Dr. Ayaz Ahamd
MBBS, FCPS
Consultant Psychiatrist

GENERAL STUDENT LEARNING OBJECTIVES:

The MBBS medical students at the end of the undergraduate training program in thesubject of Internal Medicine should be able to demonstrate the following outcomes:

- Skillful
- Knowledgeable
- Community health promoter
- Critical thinker
- Professional and role model
- Researcher
- Leader

COURSE OBJECTIVES:

At the end of undergraduate training program in the subject of Internal Medicine, the graduate should possess essential knowledge, skills and attitude in order to enable them to:

1. Take comprehensive history, perform detailed physical examination and make aprobable diagnosis with a list of differential diagnoses.
2. Devise an investigation plan, interpret the information and apply his knowledge.
3. Suggest a treatment plan for patients.
4. Apprehend and diagnose possible complications.
5. Document all aspects properly and timely.
6. Write and present the cases.
7. Identify medical diseases presenting in out-patients, in-patients and emergency departments.
8. Provide primary health care, at the community level.
9. Perform essential medical emergency and planned procedures.
10. Communicate and counsel effectively with the patient, their families and thecommunity, regarding disease and its relevant issues.
11. Understand medical ethical issues and their application in reference to Internal Medicine.
12. Maintain the confidentiality of the patient.
13. Counsel patients and families regarding common medical problems.
14. Guide the patients and families regarding rehabilitation.
15. Understand the prevalence and prevention of the common Public Health Problemsrelated to Internal Medicine in the community.
16. Understand the principles of medical research including medical writing.
17. Understand the fundamentals of Information Technology and basic computer softwares.

18. Understands the principles of sterilization and disinfection techniques to prevent infections to the patients and save himself or herself from patients.
19. Be a life-long self-directed learner.
20. Exhibit Professionalism.
21. Competent in Preventive Medicine.

STANDARDS OF A SEVEN STAR DOCTOR:

The expected generic competencies in a medical graduate are as follows:

1. Skillful
2. Knowledgeable
3. CommunityHealthPromoter
4. CriticalThinker
5. Professional
6. Scholar
7. LeaderandRoleModel

A 'Seven Star Doctor' Pakistani medical graduate should be able to demonstrate various traitsas detailed under each competency. These attributes are the bare minimum requirements.

MODES OF INFORMATION TRANSFER:

LECTURES:

Lectures are planned to give theoretical knowledge of the course contents. The main purpose of the lectures is to broadly introduce the topic or disease. The lecture schedule with the name of the tutor is mentioned below in the tabulated form. The lectures are taken at the lecture halls of the main college building according to the annual devised schedule or academic calendar. Due to COVID-19 pandemic and lockdown with closure of colleges and universities, the classes were interrupted. Online classes through ZOOM meetings, google classrooms and other online teaching modes were also started.

CLINICAL TEACHING:

Clinical teaching of students of final year MBBS is done at the affiliated hospitals.

1. Sharif Medical City Hospital, Raiwind Road, Lahore.
2. Ittefaq Hospital, Ferozpur Road, Lahore.

Clinical Teaching Strategies:

- **Out Door Teaching**
- **Ward Teaching**
    - History taking
    - Clinical methods
    - Bedside teaching
    - Ward rounds
    - Case based learning
- **Small group discussions**
- **Clinical Tutorials**
- **Clinico-pathological Conference**
- **Individual presentations and assignments**
- **Skill lab activities**
- **OSCE Examination Practice**
- **Clinical Cards/Log book,** to document and monitor clinical training.

FIRST YEAR MBBS - CURRICULAR FRAMEWORK:

The University of health Sciences Lahore has designed a five-year modular frameworkfor integrated curriculum based on specific systems, clinical clerkships, Quran, and Professionalism.

The **Medicine subject** is one of the main learning subject which is being integrated from start of MBBS classes in 1st year. Medicine department will integrate with Basic subjects according the curriculum for clinical learning of the students. There will be Medicine Lectures and Clinical Skill Classes integrated with basic subjects (Anatomy,Physiology, Biochemistry) according to the modules.

YEAR	MODULES	
YEAR 1	• Foundation -1 • Hematopoitic & Lymphatic	**Block 1**
	• Musculoskeletal & Locomotion-1	**Block 2**
	• Cardiovascular – 1 • Respiratory - 1	**Block 3**
	• PERLs1 • Quran-1 • Islamiyat&Pak Studies	**Will be taught throughoutthe year**
	• ClinicalSkillsFoundation • C-FRC-1 (Clinical Foundation,Rotation, Clerkships)	

TEACHING SCHEDULE OF 2nd YEAR MBBS:

Students will be taught theoretical and clinical aspects of **General Medicine** through lectures and Clinical classes. The topics will be taught in collaboration with the basic sciences heads to impart knowledge about the common clinical problems related to basic subjects. **Cardiology** and **Nephrology** will be taught in 1st and 2nd year respectively through lectures to provide basic theoretical knowledge about these specialties.

There will be one clinical lecture of Medicine per week of one hour duration on Monday. These lectures will orient the students regarding clinical aspects of Medicine at a very basic and initial level. Clinical symptoms will be discussed at the basic level with special emphasis on alarm sign about that particular case.

Summary of Lectures: Every Monday (10am-11am)

DATE	TOPICS	PGR
30-01-2023	Headache	Dr. Naila
06-02-2023	Meningitis	Dr. Naila
13-02-2023	Encephalitis	Dr. Naila
20-02-2023	Hypertension	Dr. Naila
27-02-2023	Bell's Palsy	Dr. Altooz
06-03-2023	Peripheral Neuropathy	Dr. Altooz
13-03-2023	Facial Pain	Dr. Altooz
20-03-2023	Diabetes Mellitus	Dr. Ayesha
27-03-2023	Thyroid Disease	Dr. Ayesha
10-04-2023	Adrenal Disease	Dr. Ayesha
17-04-2023	Asthma	Dr. Sahar
24-04-2023	Pneumonia	Dr. Sahar
08-05-2023	TB	Dr. Sahar
15-05-2023	Angina+ MI	Dr. Habeeba
22-05-2023	Hepatitis	Dr. Habeeba
29-05-2023	Cirrhosis	Dr. Habeeba
05-06-2023	Anemia	Dr. Kiran
12-06-2023	Polycythemia	Dr. Kiran
17-07-2023	Thelasemia	Dr. Kiran
24-07-2023	Nausea / Vomiting	Dr. Namrah
31-07-2023	Diarrhea	Dr. Namrah
07-08-2023	GERD / PUD	Dr. Namrah
21-08-2023	Arthritis	Dr. Anum
28-08-2023	Metabolic Aicalosis/ Acidosis	Dr. Anum
04-09-2023	Respiratory / Alkalosis/ Acidosis	Dr. Anum
11-09-2023	UTI	Dr. Anum
18 to 25-09-2023	Revision	

TEACHING SCHEDULE OF 3rdYEAR MBBS:

There will be one clinical lecture of General Medicine every week in third year MBBS. Lectures for medicine and allied subspecialities (Gastroenterology, Pulmonology, Emergency Medicine) are included in the schedule. These lectures will provide orientation to the students regarding clinical aspects of Medicine at a very basic and initial level. They will be taught history taking, history writing & history presentation, general and systemic physical examinations, especially their theoretical aspects.

Clinical classes will be conducted in the hospital and include clinical rotation in the department of medicine. Class will be divided in 5 sub-batches and each batch attends medicine ward for 8 weeks. During hospital work students also attend the skill labs according to schedule.

Summary of Lectures:

- **Medicine –** Thursday (01 hour) & Saturday (45 min)
- Psychiatry – Wednesday (45m) 15-02-23 to 10-05-23
- Dermatology – Wednesday (45m) 17-5-23 to 04-10-23
- **Cardiology –** Wednesday (45m) 11-10-23 to 01-11-23
- Nephrology – Wednesday (45m) 08-11-23 to 13-12-23
- **Gastroenterology –** Friday (45m) 10-02-23 to 31-03-23
- **Pulmonology –** Friday (45) 14-04-23 to 09-06-23
- **Emergency Medicine –** Friday (45) 21-07-23 to 11-08-23
-

DATE	DAY	TOPIC	LECTURE
9-2-23	Thursday	Fever and its pattern	Dr. Faisal Masood
10-2-23	Friday	Dengue Fever	Dr. Imran Johar
11-2-23	Saturday	Dengue Fever	Dr.Namrah PGR
15-2-23	Wednesday	Introduction	Dr.Ayaz
16-2-23	Thursday	Enteric Fever	Dr. Faisal Masood
17-2-23	Friday	Enteric Fever	Dr.Namrah PGR
18-2-23	Saturday	Malaria	Dr.Namrah PGR
22-2-23	Wednesday	Psychiatric History & Mental State Examination	Dr.Ayaz
23-2-23	Thursday	Malaria and its types	Dr. Faisal Masood
24-2-23	Friday	Acute febrile illness	Dr.Namrah PGR
25-2-23	Saturday	Acute febrile illness	Dr.Namrah PGR
1-3-23	Wednesday	Depressive disorder	Dr.Mehwish
2-3-23	Thursday	Acute viral hepatitis	Dr. Faisal Masood
3-3-23	Friday	Jaundice and types	Dr. Imran Johar
4-3-23	Saturday	Hepatitis A and E	Dr.Namrah PGR
8-3-23	Wednesday	Anxiety disorder	Dr.Ayaz
9-3-23	Thursday	Hepatitis B	Dr. Faisal Masood
10-3-23	Friday	Hepatitis C	Dr.Namrah PGR
11-3-23	Saturday	Cirrhosis	Dr.Namrah PGR

15-3-23	Wednesday	Dissociative disorder	Ms. Kanwal
16-3-23	Thursday	Portal hypertension	Dr. Faisal Masood
17-3-23	Friday	Decompensated cirrhosis	Dr.Namrah PGR
18-3-23	Saturday	Hepatic Encephalopathy	Dr.Namrah PGR
22-3-23	Wednesday	Somatoform disorder	Dr.Mehwish
23-3-23	Thursday	**Pakistan Day**	
24-3-23	Friday	Ascites	Dr.Namrah PGR
25-3-23	Saturday	Hepatocellular Carcinoma	Dr.Namrah PGR
29-3-23	Wednesday	Personality disorder	Ms. Sarah
30-3-23	Thursday	Primary biliary cholangitis	Dr. Faisal Masood
31-3-23	Friday	Spontaneous bacterial peritonitis	Dr.Namrah PGR
1-4-23	Saturday	**Spring Vaccations**	
6-4-23	Thursday	**Spring Vaccations**	
7-4-23	Friday	**Spring Vaccations**	
8-4-23	Saturday	**Spring Vaccations**	
12-4-23	Wednesday	Delirium & Dementia	Dr.Ayaz
13-4-23	Thursday	Hypertension	Dr. Faisal Masood
14-4-23	Friday	Treatment of hypertension	Dr.Namrah PGR
15-4-23	Saturday	Dyslipidemias	Dr.Namrah PGR
19-4-23	Wednesday	Suicide & Deliberate Self-Harm	Ms. Kanwal
20-4-23	Thursday	Types and treatment modalities of dyslipidemias	Dr. Faisal Masood
21-4-23	Friday	**Eid Holidays**	
22-4-23	Saturday	**Eid Holidays**	
26-4-23	Wednesday	Pharmacological Management	Dr.Ayaz
27-4-23	Thursday	Angina and its types	Dr. Faisal Masood
28-4-23	Friday	Myocardial infarction	Dr.Namrah PGR
29-4-23	Saturday	NSTEMI	Dr.Namrah PGR
3-4-23	Wednesday	Psychotherapy	Ms.Sarah
4-5-23	Thursday	Arrhythmias and its types	Dr. Faisal Masood
5-5-23	Friday	Atrial fibrillation	Dr.Namrah PGR
6-5-23	Saturday	Atrial flutter	Dr.Namrah PGR
10-5-23	Wednesday	**Test**	
11-5-23	Thursday	Ventricular tachycardia	Dr. Faisal Masood
12-5-23	Friday	Supraventricular tachycardias	Dr.Namrah PGR
13-5-23	Saturday	Brady- and tachy-arrythmias	Dr.Namrah PGR
17-5-23	Wednesday	Basic Lesions	Dr.Uzma
18-5-23	Thursday	Dilated Cardiomyopathy	Dr. Faisal Masood
19-5-23	Friday	Hypertrophic cardiomyopathy	Dr.Namrah PGR
20-5-23	Saturday	Pericarditis	Dr.Namrah PGR
24-5-23	Wednesday	Eczema	Dr.Uzma
25-5-23	Thursday	Peridardial effusion	Dr. Faisal Masood
26-5-23	Friday	Pericardiac tamponade	Dr.Namrah PGR
27-5-23	Saturday	Pericarditis and myocarditis	Dr. Imran Johar
31-5-23	Wednesday	Scabies	Dr.Uzma

1-6-23	Thursday	**Eat fair**	
2-6-23	Friday	Pulmonary function tests	Dr.Namrah PGR
3-6-23	Saturday	Pulmonary function tests	Dr.Namrah PGR
7-6-23	Wednesday	Fungal Infunction	Dr.Uzma
8-6-23	Thursday	Asthma	Dr. Faisal Masood
9-6-23	Friday	Step wise treatment of asthma	Dr.Namrah PGR
10-6-23	Saturday	Life threatning asthma	Dr.Namrah PGR
14-6-23	Wednesday	Acne	Dr.Uzma
15-6-23	Thursday	COPD	Dr. Faisal Masood
16-6-23	Friday	**Summer Vacations**	
17-6-23	Saturday	**Summer Vacations**	
22-6-23	Thursday	**Summer Vacations**	
23-6-23	Friday	**Summer Vacations**	
24-6-23	Saturday	**Summer Vacations**	
29-6-23	Thursday	**Summer Vacations**	
30-6-23	Friday	**Summer Vacations**	
1-7-23	Saturday	**Summer Vacations**	
6-7-23	Thursday	**Summer Vacations**	
7-7-23	Friday	**Summer Vacations**	
8-7-23	Saturday	**Summer Vacations**	
13-7-23	Thursday	**Summer Vacations**	
14-7-23	Friday	**Summer Vacations**	
15-7-23	Saturday	**Summer Vacations**	
20-7-23	Thursday	Bronchiectasis	Dr. Faisal Masood
21-7-23	Friday	Acute Bronchitis	Dr.Namrah PGR
22-7-23	Saturday	Pnemonias	Dr.Namrah PGR
26-7-23	Wednesday	STDS	Dr.Uzma
27-7-23	Thursday	Community acquired pneumonia	Dr. Faisal Masood
28-7-23	Friday	**Youm e Ashura**	
29-7-23	Saturday	**Youm e Ashura**	
2-8-23	Wednesday	Alopecia	Dr.Uzma
3-8-23	Thursday	Hospital acquired pneumonia	Dr. Faisal Masood
4-8-23	Friday	CURB-65 Score	Dr.Namrah PGR
5-8-23	Saturday	Tuberculosis	Dr. Imran Johar
9-8-23	Wednesday	Disorder of shaft	Dr.Uzma
10-8-23	Thursday	TB DOT therapy	Dr. Faisal Masood
12-8-23	Saturday	TB drugs and its side effects	Dr. Imran Johar
16-8-23	Wednesday	Bullous Pemphigoid	Dr.Uzma
17-8-23	Thursday	Prevention of TB	Dr. Faisal Masood
19-8-23	Saturday	Hypersensitivity pneumonitis	Dr.Namrah PGR
23-8-23	Wednesday	Pemphigus Vulgaris	Dr.Uzma
24-8-23	Thursday	Pneumoconiosis	Dr. Faisal Masood
26-8-23	Saturday	Silicosis	Dr.Namrah PGR
30-8-23	Wednesday	Systemic sclerosis	Dr.Uzma
31-8-23	Thursday	Asbestosis	Dr. Faisal Masood
2-9-23	Saturday	Allergic rhinitis	Dr.Namrah PGR

6-9-23	Wednesday	Dermatomyositis	Dr.Sehrish
7-9-23	Thursday	Dyspepsia	Dr. Faisal Masood
9-9-23	Saturday	GERD	Dr.Namrah PGR
13-9-23	Wednesday	Psoriasis	Dr.Sehrish
14-9-23	Thursday	Non variceal bleeding	Dr. Faisal Masood
16-9-23	Saturday	Gastritis	Dr. Imran Johar
20-9-23	Wednesday	SLE	Dr.Sehrish
21-9-23	Thursday	Acid peptic disease	Dr. Faisal Masood
23-9-23	Saturday	Achlasia	Dr. Imran Johar
27-9-23	Wednesday	Lichen planus	Dr.Uzma
28-9-23	Thursday	H Pylori eradication	Dr. Faisal Masood
30-9-23	Saturday	Esophagitis	Dr. Imran Johar
4-10-23	Wednesday	Infestations	Dr.Sehrish
5-10-23	Thursday	Ulcerative colitis	Dr. Faisal Masood
7-10-23	Saturday	Ulcerative colitis	Dr. Sahar PGR
11-10-22	Wednesday	Torsades De Pointes	Dr. Faisal Masood
12-10-23	Thursday	Crohn's disease	Dr. Faisal Masood
14-10-23	Saturday	Crohn's disease	Dr. Sahar PGR
18-10-23	Wednesday	RBBB	Dr. Faisal Masood
19-10-23	Thursday	Urine complete examination	Dr. Faisal Masood
21-10-23	Saturday	Acute kidney injury	Dr. Sahar PGR
25-10-23	Wednesday	LBBB	Dr. Faisal Masood
26-10-23	Thursday	Types of acute kidney injury	Dr. Faisal Masood
28-10-23	Saturday	Chronic kidney disease	Dr. Sahar PGR
1-11-23	Wednesday	Cardiomyopathies	Dr. Faisal Masood
2-11-23	Thursday	Chronic kidney disease	Dr. Faisal Masood
4-11-23	Saturday	Diabetes	Dr. Sahar PGR
8-11-23	Wednesday	Post strepolcoccal glomenlonephits	Um-ul-Baneem
9-11-23	Thursday	Diabetes and its treatment	Dr. Faisal Masood
11-11-23	Saturday	Diabetes and its treatment	Dr. Sahar PGR
15-11-23	Wednesday	IgA nephropathy	Um-ul-Baneem
16-11-23	Thursday	Complications of diabetes	Dr. Faisal Masood
18-11-23	Saturday	Complications of diabetes	Dr. Sahar PGR
22-11-23	Wednesday	Membranous Glomerulonephritis	Um-ul-Baneem
23-11-23	Thursday	Diabetic foot	Dr. Faisal Masood
25-11-23	Saturday	Diabetic ketoacidosis	Dr. Sahar PGR
29-11-23	Wednesday	Diabetic Nephropathy	Um-ul-Baneem
30-11-23	Thursday	Hyperosmolar hyperglycemic state	Dr. Faisal Masood
6-12-23	Wednesday	Nephrotic Syndrome	Um-ul-Baneem
13-12-23	Wednesday	Nephritic Syndrome	Um-ul-Baneem

Summary of Hospital work:

Clinical Program	Batch I 09-02-2023 To 12-04-2023	Batch II 13-04-2023 To 05-06-2023	Batch III 06-06-2023 To 28-08-2023	Batch IV 29-08-2023 To 22-10-2023	Batch V 23-10-2023 To 15-12-2023
History Taking	09-02-2023 To 16-02-2023	13-04-2023 To 19-04-2023	06-06-2023 To 12-06-2023	29-08-2023 To 06-09-2023	23-10-2023 To 30-10-2023
GPE (Vitals, General Physical Signs, JVP, Thyroid)	17-02-2023 To 24-02-2023	20-04-2023 To 26-04-2023	13-06-2023 To 20-07-2023	07-09-2023 To 14-09-2023	31-10-2023 To 06-11-2023
GIT (Oral Cavity, Abdomen, Inspection, Palpation, Percussion, Auscultation)	25-02-2023 To 04-03-2023	27-04-2023 To 04-05-2023	21-07-2023 To 28-07-2023	15-09-2023 To 22-08-2023	07-11-2023 To 15-11-2023
RS (Inspection, Palpation, Percussion, Auscultation)	05-03-2023 To 12-03-2023	05-05-2023 To 12-05-2023	29-07-2023 To 05-08-2023	23-09-2023 To 29-09-2023	16-11-2023 To 22-11-2023
CVS (Pulse, Precordium, inspection, Palpation, Auscultation)	13-03-2023 To 20-03-2023	13-05-2023 To 20-05-2023	06-08-2023 To 12-08-2023	30-09-2023 To 06-10-2023	23-11-2023 To 29-11-2023
CNS (Higher Mental Function, Cranial Nerves, Sensory System)	21-03-2023 To 28-03-2023	21-05-2023 To 27-05-2023	13-08-2023 To 19-08-2023	07-10-2023 To 14-10-2023	30-11-2023 To 01-12-2023
CNS (Motor System, CerebellarSigns)	29-03-2023 To 11-04-2023	28--05-2023 To 04-06-2023	20-08-2023 To 27-08-2023	15-10-2023 To 21-10-2023	02-12-2023 To 14-12-2023
Ward Test + 10 Completed Histories	**12-04-2023**	**05-06-2023**	**28-08-2023**	**22-10-2023**	**15-12-2023**

- **Skill Labs activity:**

Skill	Venue	Batch & Timings	Days & Dates
Venous Cannulation	Skills lab	Batch I (12:45 pm -1:30 pm)	Mon: 27th March & 10th April 23
		Batch II (1:30 pm - 2:30 pm)	Mon: 27th March & 10th April 23
		Batch III (12:45 pm -1:30 pm)	Wed: 29th March & 12th April 23
		Batch IV (1:30 pm - 2:30 pm)	Wed: 29th March & 12th April 23
		Batch V (12:00 noon - 12:45 pm)	Thu: 30th March & 13th April 23
		Batch VI (12:45 pm -1:30 pm)	Thu: 30th March & 13th April 23

TEACHING SCHEDULE OF FINAL YEAR MBBS:

The final year MBBS students are expected to learn Medicine to the level that at the end of the session they should be able to diagnose a patient of common ailments, with the help of history and physical examination. They should be able to devise a plan of investigation and appropriate treatment & rehabilitation. They should also be able to apprehend and prevent the common complications of that problem.

The whole curriculum of Medicine is planned in such a way that it helps in achieving all these learning objectives.

Lecture Schedule:

The detailed lecture break-up with student learning objectives is given at the end of the subject handbook. There will be three lectures of 45 minutes duration per week. The important topics will be taught in lectures either in the college classrooms are through online media (10% of lectures). This schedule may be changed from time to time according to the requirements.

The breakup is as follows:

Sr. No.	Topics	No. of Lectures
1	Rheumatology	14
2	Respiratory system	11
3	Cardiovascular system	15
4	Gastrointestinal diseases	12
5	Liver diseases	09
6	Hematology and oncology	08
7	Infectious diseases	09
8	Diabetes Mellitus	06
9	Endocrinology	10
10	Poisoning / metabolic diseases/ immunology/ Genetics	10
11	Revision of important topics or adjustments	10
	TOTAL	116

IMPORTANT: the detailed plan of the lectures is proposed and is expected to be changed from time to time according to the requirements. This is just to give you a broader overview.

Individual teaching modality;

- **Lecture Days/ timings:**
  - Monday (09:15am – 10:00am) - Prof. Taj Jamshaid
  - Tuesday (01:45pm – 02:30pm) - Prof. Ayub Latif Khawaja
  - Thursday (08:30am – 09:15am) - Assoc. Prof. Dr. Amina/Dr. Ayaz/ Prof. Taj Jamshaid
  - Friday (09:15am – 10:00am) - Assoc. Prof. Aftab Rabbani
- **Lecture Schedule:**

System	Topic	Date	Day	LECTURE
Gastro Intestinal System+ Hepatology	Dysphagia+ CA Esophagus	2-3-23	Thursday	Dr. Aftab
	GERD + Achlasia	3-3-23	Friday	Dr. Taj
	Gastritis +PUD	6-3-23	Monday	Dr. Ayub
	Malabsorption Syndrome + IBS	7-3-23	Tuesday	Dr. Aftab
	IBD	9-3-23	Thursday	Dr. Taj
	Ascites	10-3-23	Friday	Dr. Ayub
	Jaundice (pre + post + Hepatic)	13-3-23	Monday	Dr. Aftab
	Hepatitis	14-3-23	Tuesday	Dr. Taj
	CLD + Complication	16-3-23	Thursday	Dr. Ayub
	Upper + LOWER GI Bleed	17-3-23	Friday	Dr. Aftab
	HCC + Transplant	20-3-23	Monday	Dr. Taj
	Pancreatitis	21-3-23	Tuesday	Dr. Ayub
	PBC + PSC	23-3-23	Thursday	Dr. Aftab
Cardiology	Rheumatic Fever	24-3-23	Friday	Dr. Taj
	Infective Endocarditis	27-3-23	Monday	Dr. Ayub
	Valvular Heart Disease	28-3-23	Tuesday	Dr. Aftab
	Angina	30-3-23	Thursday	Dr. Taj
	ACS	31-3-23	Friday	Dr. Ayub
	Arrythmias	03-4-23	Monday	Dr. Aftab
	Heart Failure	04-04-23	Tuesday	Dr. Taj
	Cardiomyopathy	06-4-23	Thursday	Dr. Ayub
	Pericardial Disease	07-4-23	Friday	Dr. Aftab
	HTN	10-04-23	Monday	Dr. Taj
	Hyperlipidemia	11-4-23	Tuesday	Dr. Ayub
	ECGs	13-4-23	Thursday	Dr. Aftab
	Radiology	14-04-23	Friday	Dr. Taj
Endocrinology	Anti.Pituitary Disorders	17-4-23	Monday	Dr. Ayub
	Post.Pituitary Disorders	18-4-23	Tuesday	Dr. Aftab
	Hyperthyroidism	20-04-23	Thursday	Dr. Taj
	Hypothyroidism	21-4-23	Friday	Dr. Ayub

	Tumors of Thyroid	24-4-23	Monday	Dr. Aftab
	Cushing Syndrome	25-4-23	Tuesday	Dr. Taj
	Adrenal Insufficiency	27-04-23	Thursday	Dr. Ayub
Endocrinology	Hyperaldosteronism	28-4-23	Friday	Dr. Aftab
	Parathyroid Disorders	01-05-23	Monday	Dr. Taj
	Reproductive System Disorders	02-05-23	Tuesday	Dr. Ayub
Diabetes Mellitus	Diabetes Emergencies	04-05-23	Thursday	Dr. Taj
	Complications of DM	05-05-23	Friday	Dr. Ayub
Pulmonology	Asthma	08-05-23	Monday	Dr. Taj
	COPD	09-05-23	Tuesday	Dr. Ayub
	Pneumonia	11-05-23	Thursday	Dr. Taj
	Bronchiactasis + Cystic Fibrosis	12-05-23	Friday	Dr. Ayub
	Pul. Tuberculosis	15-05-23	Monday	Dr. Aftab
	Occupational Lungs Disease	16-05-23	Tuesday	Dr. Taj
	Resp. Failure + ARDS	18-05-23	Thursday	Dr. Ayub
	Disorders of Chest wall + Pleura	19-05-23	Friday	Dr. Aftab
	Pulmonary Thromboembolism	22-05-23	Monday	Dr. Taj
Psychiatry	Anxiety Disorder + Phobic Disorder	23-05-23	Tuesday	Dr.Ayaz
	Major Depressive Disorder	25-05-23	Thursday	
	Schizophrenia	26-05-23	Friday	
	Addiction + Alcoholism	29-05-23	Monday	
Nephrology	AKI	30-05-23	Tuesday	Dr. Irfan
	CKD + Dialysis	1-06-23	Thursday	
	Nephrotic Syndrome	02-6-23	Friday	
	Nephritic Syndrome	05-06-23	Monday	
	ATN	06-06-23	Tuesday	
	Polycystic Kidney Disease	8-6-23	Thursday	
	Renal Vascular Disorder	9-6-23	Friday	
	|UTI +BPH	12-6-23	Monday	
	Poisoning	13-6-23	Tuesday	
Summer Vacations		**15-06-23 to 15-07-23**		
	Immunological Diseases	17-07-23	Monday	Dr. Taj
Metabolic Diseases	Electrolyte Imbalance	18-07-23	Tuesday	Dr. Ayub
	Glycogen + Lipid Storage Disease	20-07-23	Thursday	Dr. Taj
	Genetic diseases	21-07-23	Friday	Dr. Aftab
Neurology	CVA	24-07-23	Monday	Dr. Amna +Dr. Arsalan
	Meningitis	25-07-23	Tuesday	
	Encephalitis	27-07-23	Thursday	
	Epilepsy	28-07-23	Friday	
	Parkinson's	31-07-23	Monday	
Neurology	Myasthenia Gravis	01-08-23	Tuesday	
	Multiple Sclerosis	03-08-23	Thursday	
	Motor Neuron Disease	04-08-23	Friday	
	Myopathies	07-08-23	Monday	
	Alzheimer's Disease	08-08-23	Tuesday	

	Brain Abscess + SOL	10-08-23	Thursday	
	Hydrocephalus	11-08-23	Friday	
Rheumatology				
	R.A	14-08-23	Monday	Dr. Taj
	Spondyloarthropathies	15-08-23	Tuesday	Dr. Ayub
	Osteo Arthritis	17-08-23	Thursday	Dr. Taj
	Gout	18-08-23	Friday	Dr. Aftab
	SLE	21-08-23	Monday	Dr. Taj
	Systemic Sclerosis	22-08-23	Tuesday	Dr. Ayub
	Osteoporosis + Osteomalacia	24-08-23	Thursday	Dr. Taj
	Vasculitis	25-8-23	Friday	Dr. Aftab
Infection Disease	Tetanus	28-8-23	Monday	Dr. Taj
	Infectious Mononucleosis	29-8-23	Tuesday	Dr. Ayub
	Dengue Fever	31-8-23	Thursday	Dr. Taj
	Malaria	1-9-23	Friday	Dr. Aftab
	AIDS	4-9-23	Monday	Dr. Taj
	Enteric Fever	5-9-23	Tuesday	Dr. Ayub
	Cholera	7-9-23	Thursday	Dr. Taj
	Worm Infection	8-9-23	Friday	Dr. Aftab
Hematology +Oncology	Microcytic Anemia	11-9-23	Monday	Dr. Ayub
	Megaloblastic Anemia	12-9-23	Tuesday	Dr. Taj
	Hemolytic Anemia	14-9-23	Thursday	Dr. Aftab
	Aplastic Anemia	15-9-23	Friday	Dr. Taj
	Haemoglobinopthies	18-9-23	Monday	Dr. Ayub
	Leukemias	19-9-23	Tuesday	Dr. Taj
	Lymphomas	21-9-23	Thursday	Dr. Aftab
	Disorders of Hemostasis	22-9-23	Friday	Dr. Taj

- **Lecture Topics for IHT (18th February, 2023 to 31st January, 2024)**

	Heat stroke
	Snake bite
	Malaria
	Dengue
	Typhoid
	Meningitis
	Sepsis and septic shock
	Acute infective diarrhea
	Tetanus
	Worm infestations
	Poisoning (OGP)
	Interstitial lung diseases
	Pulmonary thromboembolism
	Pleural effusion

	Carcinoma liver and transplant
	Acute pancreatitis
	Chronic pancreatitis
	Acromegaly/ Gigantism
	Short stature
	Pheochromocytoma
	Multiple myeloma
	Systemic sclerosis (scleroderma)
	Sarcoidosis
	Chronic myeloid leukemia (CML)
	Leukemias (Acute/ Chronic)
	Lymphomas (Non-Hodgkin's/ Hodgkin's)
	Acute renal failure
	Nephrotic syndrome
	Chronic renal failure
	Introduction to dialysis & renal transplant

- **Formative Assessment (MCQ/SEQ Test):**

S.No	TOPIC	Date / Day	Tutor
1	**Diabetes Mellitus**	15-05-2023	Prof. Taj Jamshaid
2	**Gastroenterology**	26-05-2023	Assoc. Prof. Aftab Rabbani
3	**Neurology**	01-06-2023	Assoc. Prof. Amina Malik
4	**Cardiology**	06-06-2023	Prof. Ayub Latif Khawaja
5	**Psychiatry**	17-08-2023	Dr. Ayaz
6	**Endocrinology**	04-09-2023	Prof. Taj Jamshaid
7	**Poisoning/ Metabolic disease /Immunology/ Genetics)**	14-09-2023	Prof. Taj Jamshaid
8	**Infectious diseases**	22-09-2023	Assoc. Prof. Aftab Rabbani
9	**Pulmonology**	26-09-2023	Prof. Ayub Latif Khawaja
10	**Rheumatology**	27-11-2023	Prof. Taj Jamshaid
11	**Hematology/ Oncology**	08-12-2023	Assoc. Prof. Aftab Rabbani
12	**Hepatology**	11-12-2023	Prof. Ayub Latif Khawaja

SCHEDULE OF CLINICAL/ WARD TRAINING:

During the clinical rotation in the department of MEDICINE, the students will betaught and trained for the following skills.

- Recognising and managing common medical problems in the emergencies andwards.
- Case preparation and presentation.
- History, examination and differential diagnosis with possible clinical diagnosis.
- Plan and interpret the related radiological and laboratory investigations.
- General medication and prescription writing.
- Learning of medical procedures.
- Rotation in the different sub-speciality areas in small groups for practical learning.

CLINICAL/ HOSPITAL WORK SCHEDULE OF FINAL YEAR:

Hospital work	**Tuesday** (09:15am to 01:00pm)	**Wednesday** (09:15am to 01:45pm)	**Friday** (10:00am to 12:30pm)
Case preparation	09:15am to 10:00am	09:15am to 10:00am	10:00am to 11:00am
Case presentation	10:00am to 11:00am	10:00am to 11:00am	11:00am to 12:00noon
Clinical methods*/ skill lab	11:15am to 12:00noon	11:15am to 12:45pm	
SGD/work**	12:00noon to01:00pm	12:45pm to01:45pm	12:00noon to 12:30pm

***Clinical methods/skills will be practised as per schedule/ table

****Each batch will be divided in four sub-batches to work in Medicine ward, Pulmonology/ ICU, Gastroenterology/Ward and ER (Emergency room) on rotationbasis as per schedule

***CLINICAL METHODS / SKILLS:**

- Each batch will perform / learn clinical methods and skills during their rotation in the department of medicine as per time table;
- GPE 1st week
- CVS 2nd week
- RS 3rd week
- GIT 4th week
- CNS 5th week
- Instruments/ Drugs 6th week and onward

****SMALL GROUP DISCUSSION/ WORK:**

- (**Tuesday 12:00 noon – 01:00pm, Wednesday 12:45pm – 01:45pm, Friday 12:00noon – 12:30pm**)
- Each batch will be divided in 3 sub-batches to learn in different areas as per timetable;

Batch I (01-3-23 to 27-4-23)	Batch II (28-4-23 to 15-6-23)	Batch III (17-7-23 to 04-9-23)	Batch IV (05-9-23 to 24-10-23)	Batch V (25-10-23 to 13-12-23)
A: 19001-19007 **B**: 19008-19014 **C**: 19015-19020	**A**: 19021-19028 **B**: 19029-19034 **C**: 19036-18042	**A**: 19043-19049 **B**: 19050-19055 **C**: 19056-19061	**A**: 19062-19068 **B**: 19069-19074 **C**: 19075-19081	**A**: 19082-19088 **B**: 19089-19095 **C**: 19097-19101, 18103

From To	Pulmonology/ICU	Gastroenterology/ Medical Ward	Medical Emergency
01-03-23 16-03-23	**I A**	**I B**	**I C**
17-03-23 09-04-23	**I B**	**I C**	**I A**
10-04-23 27-04-23	**I C**	**I A**	**I B**
28-04-23 14-05-23	**II A**	**II B**	**II C**
15-05-23 30-05-23	**II B**	**II C**	**II A**
31-05-23 15-06-23	**II C**	**II A**	**II B**
17-07-23 01-08-23	**III A**	**III B**	**III C**
02-08-23 17-08-23	**III B**	**III**	**III**
18-08-23 04-09-23	**III C**	**CIII**	**AIII**
		A	**B**
05-09-23 20-09-23	**IV A**	**IV B**	**IV C**
21-09-23 06-10-23	**IV B**	**IV C**	**IV A**
07-10-23 24-10-23	**IV C**	**IV A**	**IV B**
25-10-23 09-11-23	**V A**	**V B**	**V C**
10-11-23 25-11-23	**V B**	**V C**	**V A**
26-11-23 13-12-23	**V C**	**V A**	**V B**

Note:

- **Clinical Tutors:**
  - Tuesday – Prof Ayub Latif Khawaja
  - Wednesday – Prof Taj Jamshaid
  - Friday – Dr. Imran Joher
- **Thursday** (11:00am to 01:30pm)**:** the students will work in sub-specialities (Nephrology, Neurology, Gastroenterology/ Pulmonology) in Small groups as per therota displayed for each batch.
- **Monday** (10:45am to 02:30pm) **and Saturday** (08:30am to 02:30pm) the studentwill go to ITTEFAQ HOSPITAL, Lahore for the Hospital work as per time table.
- The students must **follow the time table and schedule strictly**.
- They should **report to the final year coordinator** on arrival in the ward for the attendance and also inform to the coordinator at the time departure from the ward forthe final attendance.
- **Clinical cards** must be filled on daily basis with the hospital work and must be dulysigned by the tutor/ teachers.
- **Weekly assignments** will be given for discussion on Friday.

- Each student has to **complete at least 10 histories** during the ward rotation andmust be signed by the registrar.
- Complete clinical cards with clinical assessment will be given weightage during thefinal assessment and professional examination.

At the end of the ward rotation, each student will be assessed by ward test which willinclude **OSPE, Viva and case presentation**.

EVENING CLINICAL ROTATION (Problem Based Learning):

(**Monday to Friday: 03:00 pm – 05:00pm**)

Each batch will be divided in 3 sub-batches for the evening clinical work and practice on rotational basis in Medical ward, ICU and ER. They will be supervised by **Senior Registrar/ Registrar/ PGs** on duty and their work will be signed by them in their clinicalcards. The schedule is as follow;

Batch I (01-3-23 to 27-4-23)	**Batch II (28-4-23 to 15-6-23)**	**Batch III (17-7-23 to 04-9-23)**	**Batch IV (05-9-23 to 24-10-23)**	**Batch V (25-10-23 to 13-12-23)**
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From To	**ICU**	**Medical Ward**	**Medical Emergency**
01-03-23 16-03-23 17-03-23 09-04-23 10-04-23 27-04-23	**I A** **I B** **I C**	**I B** **I C** **I A**	**I C** **I A** **I B**
28-04-23 14-05-23 15-05-23 30-05-23 31-05-23 15-06-23	**II AII BII C**	**II BII CII A**	**II CII AII B**
17-07-23 01-08-23 02-08-23 17-08-23 18-08-23 04-09-23	**III AIII BIII C**	**III BIII CIII A**	**III CIII AIII B**
05-09-23 20-09-23 21-09-23 06-10-23	**IV A** **IV B**	**IV B** **IV C**	**IV C** **IV A**
07-10-23 24-10-23	**IV C**	**IV A**	**IV B**
25-10-23 09-11-23 10-11-23 25-11-23 26-11-23 13-12-23	**V AV B** **V C**	**V BV C** **V A**	**V CV A** **V B**

The students will observe and learn the following emergencypresentations and procedures during ER rotation.

Clinical Presentation	Clinical Procedures
• Acute Breathlessness	• IV lines/ Fluids/ Blood and Blood products
• Acute Chest pain	• Nebulisation
• Acute fever	• Urinary catheterisation
• Acute confusional state	• Collection of blood samples/ blood film preparation
• Acute headache	• Start O2 therapy, indications, complications.
• Critically ill/ Unconscious patient	• N/G tube passing and feeding
• Acute poisoning	• Injection I/V, I/M, S/C, intradermal
• Acute vomiting	• ECG taking and basic readings
• Acute abdominal pain	• X-ray chest interpretation
• Acute coronary syndrome	• Electro-version therapy (DC shock)
• Acute pulmonary oedema	• Heparinisation/ anticoagulation therapy
• Severe hypertension	• Infusions of nitrates, digoxin, inotropes
• Acute asthma / COPD	• Cardiac monitoring
• Upper GI bleed	• Basics of ETT and Endotracheal suction
• Acute diarrhoeal diseases	• CVP line insertion
• Epilepsy	• Aspiration of fluids (Pleural, Pericardial, Peritoneal, Knee)
• Hepatic encephalopathy	
• Hypoglycaemic and hyperglycaemic states	
• Anaphylaxis and anaphylactic shock	

CLINICAL ROTATION IN MEDICINE – SPECIALITIES (Small Group Discussion)

(Thursdays: 11:00 am – 01:30pm)

Each batch will be divided in 3 sub-batches which will do the clinical work & practice on rotational basis in Nephrology, Neurology, and Pulmonology/Gastroenterology/Medical

OPD. Their work must be signed in the clinical cards by the concerned InCharge. Theschedule is as follow;

Batch I (01-3-23 to 27-4-23)	**Batch II (28-4-23 to 15-6-23)**	**Batch III (17-7-23 to 04-9-23)**	**Batch IV (05-9-23 to 24-10-23)**	**Batch V (25-10-23 to 13-12-23)**
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From □ To	**Nephrology**	**Neurology**	**Medical OPD**
01-03-23 □ 16-03-23 17-03-23 □ 09-04-23 10-04-23 □ 27-04-23	**I A** **I B** **I C**	**I B** **I C** **I A**	**I C** **I A** **I B**
28-04-23 □ 14-05-23 15-05-23 □ 30-05-23 31-05-23 □ 15-06-23	**II AII BII C**	**II BII CII A**	**II CII AII B**
17-07-23 □ 01-08-23 02-08-23 □ 17-08-23 18-08-23 □ 04-09-23	**III AIII BIII C**	**III BIII CIII A**	**III CIII AIII B**
05-09-23 □ 20-09-23 21-09-23 □ 06-10-23 07-10-23 □ 24-10-23	**IV AIV B** **IV C**	**IV BIV C** **IV A**	**IV CIV A** **IV B**
25-10-23 □ 09-11-23 10-11-23 □ 25-11-23 26-11-23 □ 13-12-23	**V A** **V BV C**	**V B** **V CV A**	**V C** **V AV B**

Curriculum for Final Year (Medicine& Allied):

Distribution of subjects

Paper-I:

1. CVS diseases
2. Respiratory disease
3. Rheumatological and bone diseases
4. Neurology and CNS
5. Gastrointestinal system
6. Hepatobiliary and Pancreas
7. Blood or hematology

Paper-II:

1. InfectiousDiseases
2. Endocrinology including Diabetes
3. Genitourinary System, Acid & Base, water and electrolyte Balance
4. Oncology
5. Genetics, Immunology &MetabolicDiseases
6. Psychiatry
7. Dermatology

Lecture Topics Final Year (UHS & PMC Guidelines)

CARDIOLOGY

1. Rheumatic fever and infective endocarditis
2. Valvular heart diseases: Mitral valve, Aortic valve
3. IHD: Angina, Myocardial infarction
4. Cardiac arrhythmias: AF, VT, PAC, PVC
5. Heart failure: LVF, CCF, Cor pulmonale, cardiomyopathies
6. Hypertension
7. Congenital heart diseases (brief): Cyanotic/acyanotic heart diseases, Fallot'stetralogy, ASD, VSD, PDA
8. Pericardial diseases: Constrictive pericarditis, Pericardial effusion
9. Atherosclerosis/arteriosclerosis: Peripheral vascular disease, Arteriosclerosis, Acute & chronic ischemia of the leg, Aneurysms, Buerger's disease, Raynaud's disease.
10. Hyperlipidemia
11. Investigations: Electrocardiography, Xray chest, Echocardiography, Thallium Scan, Stress Testing, Holter And Angiography.

PULMONOLOGY:

1. Asthma.
2. COAD: Chronic bronchitis, Emphysema.
3. Pneumonia: Community acquired, Nosocomial, Lobar and bronchopneumonia
4. Bronchiectasis.
5. Tuberculosis.
6. Environmental lung diseases/occupational: Interstitial lung diseases, Asbestosis, Silicosis, Bagassosis, Pneumoconiosis, Byssinosis, Farmer's lung
7. Acute respiratory failure: Type-I and type-II respiratory failure, Adult respiratory distress syndrome, Mechanical ventilation

8. Pulmonary thromboembolism: DVT, Acute cor-pulmonale.
9. Disorders of chest wall and pleura: Pleurisy, Pleural effusion, Pneumothorax, empyema, Chest trauma, Deformities of the rib cage.
10. Tumors of the lung.
11. Basics of pulmonary function tests.
12. Imaging in pulmonary diseases/investigations

GI & HEPATOBILIARY DISEASE:

1. Oral cavity: Infections and inflammatory disorders
2. Esophageal disorders: Dysphagia with special reference to Ca esophagus/GERD/ Achalasia/ Candidiasis
3. Stomach: Gastritis, Peptic ulcer disease, H. Pylori infection
4. Intestines: Malabsorption syndromes, Tropical sprue, Coeliac disease, Irritablebowel syndrome (IBS)
5. Inflammatory bowel diseases: Ulcerative colitis, Crohn's disease
6. Ascites.
7. Jaundice: Congenital hyperbilirubinemia, Gilbert syndrome, Dubin Johnsonsyndrome, Rotor syndromes, Hemolytic, Obstructive
8. Hepatitis: Viral, acute and chronic, Toxic, Drugs, Auto immune hepatitis.
9. Cirrhosis of liver with complications: Hepatic encephalopathy, Upper & Lower GI bleeding.
10. Carcinoma liver and transplant.
11. Acute and chronic pancreatitis

ENDOCRINE DISEASEs:

1. Anterior pituitary: Growth hormone disorders- Acromegaly/ Gigantism, Short stature, Infertility.
2. Diseases of hypothalamus and posterior pituitary: Empty sella syndrome, Diabetes insipidus, Syndrome of inappropriate ADH secretion (SIADH).
3. Thyroid gland: Hyperthyroidism (thyrotoxicosis), Hypothyroidism (myxedema, cretinism), Inflammatory lesions, Benign and malignant tumors.
4. Adrenal Gland: Cushing Syndrome, Aldosteronism (Primary/Secondary), Hirsutism, Addison's disease/ Acute Addisonian crisis, Inflammatory lesions, Adrenocortical tumors including Pheochromocytoma.
5. Endocrine Pancreas: Diabetes mellitus and hypoglycemic states, Other associated endocrine disorders.
6. Testes: Sexual precocity, Heterosexual precocity, Gynecomastia, inflammations, Tumors.
7. Multiple endocrine neoplasia: Type I, Type II.

RHEUMATOLOGY:

1. Osteoarthritis.

2. Osteoporosis.
3. Rheumatoid arthritis and related arthropathies.
4. Gout and hypercalcemia.
5. Paget's disease of the bone.
6. Osteopetrosis (marble bone disease).
7. Multiple myeloma.
8. Multi-System Immunological Diseases.
9. Systemic lupus erythematosus (SLE).
10. Serum sickness.
11. Systemic sclerosis (scleroderma).
12. Mixed connective tissue diseases (brief), Sjogren's syndrome (brief), Ankylosing spondylitis, Bechet's syndrome (brief),
13. Vasculitis syndromes (brief), Anaphylactoid purpura, Polyarteritis nodosa, Hypersensitivity vasculitis, Wegner's granulomatosis, Temporal arteritis, Takayasu's arteritis, Thromboangitis obliterans (Burger's disease)
14. Sarcoidosis (brief).

METABOLIC DISORDER:

1. Hemochromatosis
2. Porphyrias
3. Wilson's disease
4. Storage diseases.
5. Lipid: Leukodystrophies, Niemann pick disease, Gaucher's disease.
6. Glycogen: Fabry's disease
7. Hereditary connective tissue disorders: Osteogenesis imperfect, Ehler's danlos, syndrome, Chondrodysplasias, Marfan syndrome.
8. Alport syndrome.
9. Disorders of amino acid metabolism and storage: Homocystinuria, Alkaptonuria, Hartnup disease.
10. Renal glycosuria.

INFECTIOUS DISEASES:

1. **Clinical syndromes:**
    a. Sepsis and septic shock.
    b. Meningococcemia.
    c. Acute infectious diarrheal diseases and bacterial food poisoning.
    d. Hospital acquired infections.
2. **Common disease syndromes caused by the following bacteria and theirdrug therapy:**
    a. Pneumococci.
    b. Staphylococci.
    c. Streptococci.

d. Hemophilus influenzae.
e. Shigella.
f. Gonococci.
g. Pseudomonas.

3. **Following diseases in detail:**
   a. Tetanus.
   b. Enteric fever/salmonellosis.
   c. Cholera.
   d. Tuberculosis.
   e. Leprosy.
   f. Amoebiasis/giardiasis/trichomoniasis.
   g. Malaria.
   h. AIDS.
   i. Rabies.
   j. Infectious mononucleosis.
4. **Helminthic infestations:**
   a. Ascariasis.
   b. Hookworm.
   c. Whipworm (trichiasis).
   d. Threadworm (entrobiasis).
   e. Taenia (tapeworm).
   f. Hydatid diseases

HEMATOLOGICAL DISORDERS:

1. **Anemias:** Classification, Iron deficiency, Megaloblastic (B-12 deficiency/ Folic acid deficiency), Anemia of chronic disorder, Hemolyticanemia (Hereditary/ Acquired/ Intra-corpuscular/ Extra-corpuscular), Aplastic anemia.
2. **Haemoglobinopathies**: Sickle cell syndromes, Thalassemia.
3. **Myeloproliferative diseases**: Chronic myeloid leukemia (CML), Polycythemia vera, Myelofibrosis, Essential thrombocytosis, Leukemias (Acute/ Chronic), Lymphomas (Non-Hodgkin's/ Hodgkin's).
4. **Disorders of hemostasis:** Thrombocytopenia, Idiopathic thrombocytopenic purpura (ITP), Von Willebrand's disease, Vessel wall disorders, Disorders of coagulation, Hemophilia, Vitamin K deficiency, Disseminated intravascular coagulation (DIC).
5. **Anticoagulants Therapy**: Heparin, Oral (warfarin etc.), Vit. K infusion, Antiplatelet drugs.
6. Blood groups and blood transfusion.
7. Bone marrow transplantation.

MISCELLANEOUS/ EMERGENCY:

1. Heat stroke.

2. Snake bite.
3. Electric shock.
4. Poisoning etc.

KIDNEYS AND URINARY SYSTEM:

1. Acute renal failure
2. Chronic renal failure
3. Nephrotic syndrome
4. Nephritic syndrome
5. Urinary tract infections
6. Inflammatory lesions of the kidneys
7. Introduction to dialysis & renal transplant
8. Drugs causing renal disease (brief) (Analgesic nephropathy, Lead, uric acid, hypercalcemia, radiation & hypersensitivity, Nephropathy, Drugs contra-indicated in renal insufficiency, Drugs to be used with caution in renal disease
9. Polycystic kidneys
10. Renal vascular disorders (Renal artery stenosis, Renal vein thrombosis, Tumors,
11. Hemolytic uremic syndrome
12. Prostatic diseases

DERMATOLOGY:

1. Infestations: Scabies, Pediculosis
2. Leprosy
3. Syphilitic lesions & other STDs
4. Eczemas
5. Psoriasis
6. Acne vulgaris
7. Lichen planus
8. Chicken pox, herpes simplex and Herpes zoster
9. SJ syndrome
10. Bullous disorders
11. Pigmentary disorders
12. Disorders of hairs and nails

NEUROLOGY:

1. CVA (• Ischemic • Embolism • Infarction• Hemorrhage)
2. Meningitis (Bacterial, TB, Viral)
3. Encephalitis
4. Brain abscess, SOL Brain, Hydrocephalus

5. Epilepsy and other convulsive disorders
6. Parkinson's disease and other movement disorders
7. Myasthenia gravis
8. Dementia and Alzheimer's disease
9. Myopathies and Muscular dystrophies
10. Peripheral nerve disorders (• Peripheral polyneuropathy • Gullian Barry syndrome)
11. Motor neuron disease
12. Multiple sclerosis
13. Cranial nerve and Spinal cord disorders

PSYCHIATRY:

1. Anxiety disorders (acute and generalized anxiety states)
2. Major Depressive disorders
3. Schizophrenia
4. Alcoholism, Addiction
5. Phobic disorders

CLINICAL/ WARD TRAINING:

History taking, GPE, Interpretation of related radiological and laboratory investigations, General medication and prescription writing.

PROCEDURES (OBSERVE/ ASSIST/ LEARN):

1. ECG taking and basic reading i.e. Normal, Acute MI, Ischemia, complete heartblock, APC, VPC, SVT, VT etc.
2. X-ray chest interpretation.
3. Electro-version therapy (DC shock) with indications, complications etc
4. Echocardiography, Thallium Scan, Stress Testing, Holter and Angiography Etc.
5. Pericardial effusion aspiration.
6. Thrombolytic therapy, heparinization/anticoagulation therapy and control, antiplatelet therapy, nitrates infusion, digitalization, treatment of acute pulmonary oedema, O2 therapy.
7. Cardiac monitoring.
8. Basics of ETT.
9. How to start O2 therapy, indications, complications.
10. Pleural aspiration
11. Endotracheal suction
12. Pleural biopsy.
13. FNA biopsy
14. Under water seal aspiration
15. Management of respiratory failure
16. Bronchoscopy
17. N/G tube passing and feeding
18. Peritoneal fluid aspiration.
19. Endoscopies, upper and lower GIT, Preparing a patient for GI endoscopies.

20. Bone marrow aspiration/trephine.
21. Injection I/V, I/M, S/C, intradermal, cutdown, CVP.
22. IV lines/Fluids/ Blood/Blood products.
23. Oxygen therapy, Nebulisation.
24. Urinary catheterisation, Foley's catheter/Red rubber catheter.
25. Collection of samples, Collection of blood samples/ blood film preparation.
26. IOP record maintenance.
27. Aspiration of fluids (Pleural, Pericardial, Peritoneal, Knee).
28. Lumbar Puncture.

CVS:

CASE DISCUSSIONS:

1. Systemic hypertension
2. IHD
3. CCF
4. Valvular diseases and infective endocarditis

D/D:

1. Palpitation
2. Breathlessness
3. Chest pain
4. Raised JVP

PULMONOLOGY:

CASE DISCUSSIONS:

1. Bronchial asthma
2. Chronic obstructive airway disease
3. Pleural effusion
4. Pneumonia
5. Pulmonary tuberculosis
6. Type-I and type-II respiratory failure
7. Bronchogenic carcinoma

D/D:

1. Cough/expectoration/sputum, Haemoptysis
2. Breathlessness, Orthopnoea, Paroxysmal nocturnal dyspnoea (PND)
3. Wheezing

GI & HEPATOBILARY:

CASE DISCUSSIONS:

1. Acid peptic disease, Variceal bleeding and peptic ulcer bleeding.
2. Tender hepatomegaly, Hepatosplenomegaly.
3. Jaundice, Chronic liver disease.
4. Acute and chronic diarrhoea
5. Abdominal Koch's infection

D/D:

1. Oral ulceration
2. Dysphagia, Heart burn
3. Nausea/vomiting, heart burn, Indigestion/flatulence
4. Acute diarrhoeal diseases, Diarrhoea and constipation
5. Melena, hematemesis, bleeding per rectum
6. Abdominal distension/ascites

ENDOCRINE DISEASES:

CASE DISCUSSIONS:

1. Diabetes mellitus
2. Thyroid diseases
3. Cushing's disease
4. Infertility and common reproductive disorders

RHEUMATOLOGY:

CASE DISCUSSIONS:

1. Rheumatoid arthritis.
2. Osteoarthritis.
3. Multiple Myeloma.
4. SLE

D/D:

1. Joint pain, swelling and deformities.
2. Muscle cramps, Muscle weakness, Muscular wasting.

INFECTIOUS DISEASES:

CASE DISCUSSIONS:

1. Malaria.
2. Typhoid fever.
3. Generalized septicaemia.

D/D:

1. Fever, PUO,

HEMATOLOGY:

CASE DISCUSSIONS:

1. Anaemias.
2. Bleeding disorders.
3. Myeloproliferative or lymphoproliferative diseases.

THE LOG BOOK/CLINICAL CARD RECORD:

The log book is a collection of evidence that learning has taken place, it is a reflective record of achievements. The students are expected to make a record of his/her achievements in the log book. The log book shall also contain a record of the procedures which student would have performed in final year.

FEEDBACK:

The teaching faculty will give constructive feedback on the performance of the students. This will be individual in clinical classes and collective in class tests and mega tests (however students who fail to perform good in tests or those who want to know about their performance may be given individual feedback). Students should take all the feedbacks in positive spirit & attitude to find out the level of their performance, areas where they need improvements and suggestions and guidance from the teachers, how to improve the weaknesses etc. the sole purpose of feedbacks is to improve thelearning of students.

ATTENDANCE:

- Students are required to ensure maximum attendance in all sections including lectures and clinical classes.
- Minimum attendance to qualify for appearing in final professional examination is 75% of lectures and clinical classes. But this is not the desired level. All students should make sure that they attend the classes 100%, except some unavoidable circumstances. Because missing one lecture or clinical class means one has misseda topic, a disease or a very important aspect of the subject.
- If a student is continuously absent for 07 days or more, his /her name will be stuckoff from the college, and he /she will have to get re-admission after consideration by the administration.

ASSESSMENT:

Assessment is an important aspect of any training program which not only includes assessment of students but also of the training program itself. The performance of each student would be marked and counted towards final internal assessment. The following tools/ methods would be used for this purpose:

1) **Theory:**
    a. Periodical class tests.
    b. **End of systems/ topics:** At the end of each chapter/ system, a theory exam would be held concurrently for the entire class from the syllabus covered during this period.

2) **Practical:**

a. **Log Book:** Each student would complete his log book and get itcountersigned from HOD at the end of each rotation. Log book is maintained during the rotation.

b. **CBL performance:** Performance of each student would be marked and sent to Head of Clinical Training.

c. **End of Rotation Exams:** At the end of each clinical rotation, the whole groupwould have a clinical exam.

d. 4x scheduled workshops including BLS/ACLS **(only attendance is required to get marks).**

Internal Assessment:

Internal assessment carries 10% weightage in final professional examination, meaning that out of 500 marks of Medicine 50 marks are decided by the performance of student in the whole academic year. Twenty five (25 marks) each, for the class tests and ward tests mainly.

- Class tests
- Mega tests
- Ward test
- Clinical assignment
- Send up examination.

Students must understand that these tests, assignments etc. not only help them to learnthe subject but also help in success in the final professional examination.

Course Learning Outcomes and assessment methods:

At the end of the session / section; the student will be able to

1. Diagnose a case scenario
2. Devise an investigation plan
3. Write down a comprehensive management plan
4. Describe the common complications and their management
5. Knows the follow up & rehabilitation plan of the common as well as important diseases of a particular system.

- **Formative Assessment (MCQ/SEQ Test);**

S.No	TOPIC	Date / Day	Tutor
1	**Diabetes Mellitus**	15-05-2023	Prof. Taj Jamshaid
2	**Gastroenterology**	26-05-2023	Assoc. Prof. Aftab Rabbani
3	**Neurology**	01-06-2023	Assoc. Prof. Amina Malik
4	**Cardiology**	06-06-2023	Prof. Ayub Latif Khawaja
5	**Psychiatry**	17-08-2023	Dr. Ayaz
6	**Endocrinology**	04-09-2023	Prof. Taj Jamshaid
7	**Poisoning/ Metabolic disease /Immunology/ Genetics)**	14-09-2023	Prof. Taj Jamshaid
8	**Infectious diseases**	22-09-2023	Assoc. Prof. Aftab Rabbani
9	**Pulmonology**	26-09-2023	Prof. Ayub Latif Khawaja
10	**Rheumatology**	27-11-2023	Prof. Taj Jamshaid
11	**Hematology/ Oncology**	08-12-2023	Assoc. Prof. Aftab Rabbani
12	**Hepatology**	11-12-2023	Prof. Ayub Latif Khawaja

Ward test/ Assessment schedule:

Batch	OSPE	Viva/ Clinical case presentation
I	19th December 2023	20th December 2023
II	02nd January 2024	03rd January 2024
III	09th January 2024	10th January 2024
IV	18th January 2024	23rd January 2024
V	24th January 2024	25th January 2024

Send Up Examination:

There will be a written send up examination at the end of the session, on the same pattern as will be followed in the final professional examination conducted by University of Health Sciences. There will be written paper of 3 hours duration comprising of 45 MCQs (45 marks) for one hour and 08 SEQs (05 marks each) for 02 hours.

UHS Format of Final Professional MBBS Exam. –marks distribution and Internal Assessment:

There will be two written papers of Medicine, each consisting of MCQs and SEQs.Topics are divided in these papers as follow:

PAPER 1	PAPER 2
1. CVS diseases 2. Respiratory disease 3. Rheumatological and bone diseases 4. Neurology and CNS 5. Gastrointestinal system 6. Hepatobiliary and Pancreas 7. Blood	1. Infectious Diseases 2. Endocrinology including Diabetes 3. Genitourinary System, Acid & Base, water and electrolyte Balance 4. Oncology 5. Genetics, Immunology & Metabolic Diseases 6. Psychiatry 7. Dermatology

Total marks allocated for Medicine in final professional examination are 500. Two hundred (200) for theory and 300 for clinical examination. Out of these 500 marks 50marks are through internal assessments.

Theory		=	**200 Marks**	
Paper I				
	09 SEQs	=	45 Marks	
	45 MCQs (one best type)	=	45 Marks	

Paper II				
	09 SEQs	=	45 Marks	
	40 MCQs (one best type)	=	40 Marks	
	Internal Assessment	=	25 Marks	
Clinical		=	**300 Marks**	
	*OSPE, Long case & Short Cases	=	275 Marks	
	Internal Assessment	=	25 Marks	
GRAND TOTAL		**=**	**500 Marks**	

*The clinical examination is divided into OSPE (Objectively Structured Practical Examination)and Long & short Cases.

- OSPE will be of 65 marks (13 stations of 5 marks each)
- One Long case 90 marks
- Four Short cases 120 marks (30 marks each).

TABLE OF SPECIFICATION (ASSESSMENT)

Following are the tables of specifications for two theory papers in Medicine.

Paper 01, Final Professional Examination:

Short Essay Questions (SEQs):

- Maximum marks: 45
- Total SEQs: 9 (all questions carry equal marks and attempt all)
- Time: 02 hours

Multiple Choice Questions (MCQs):

- Total marks: 45
- Total MCQs: 45 (each MCQ of 01 mark)
- Type of MCQ: one best of five
- Time: 60 minutes

Sr No	Topic	No. of SEQs	No. of MCQs
1	Cardiovascular system	02	07
2	Pulmonary system	01	07
3	Central Nervous System	01	07
4	Gastrointestinal system	02	07
5	Hepatobiliary and Pancreatic system	01	06
6	Hematology	01	05
7	Rheumatology	01	06

Paper 02, Final Professional Examination:

Short Essay Questions (SEQs):

- Maximum marks: 45
- Total SEQs: 9 (all questions carry equal marks and attempt all)
- Time: 02 hours

Multiple Choice Questions (MCQs):

- Total marks: 40
- Total MCQs: 40 (each MCQ of 01 mark)
- Type of MCQ: one best of five
- Time: 60 minutes

Sr No	Topic	No. of SEQs	No. of MCQs
1	Endocrinology including Diabetes Mellitus	02	05
2	Renal, Water, Acid Base/ Electrolyte	02	08
3	Infections/ Tropical diseases	02	07
4	Psychiatry	01	06
5	Dermatology	01	06
6	Genetics/ Immunology/ Metabolism	01	08

Table of Specification for Practical Exam – FinalYear MBBS:

Maximum Marks: 300 (OSCE 275 + 25 Internal Assessment)
Passing Marks: 150

The Clinical or Practical examination is divided into OSPE (Objectively StructuredPractical Examination), Long & short Cases.

- OSPE of 65 marks:
  - 13 stations of 5 marks each (9 static stations & 4 Interactive stations)
- Ward cases:
  - One Long case 90 marks
  - Four Short cases 120 marks (30 marks each)

Table of Specification for OSPE:

9 x Static Stations									4 x Interactive Stations			
1	2	3	4	5	6	7	8	9	10	11	12	13
Diagnostic/ Procedural/ Management skills									Communication/ Management Skills			
Clinical /picture/ data interpretation	Clinical /picture/ data interpretation	Clinical /picture/ data interpretation	Dermatology	Psychiatry	ECG	C-Ray/ CT-Scan	Drug	Instrument	Counselling	Emergency medicine/ BLS/ACLS	History Taking/ Examination	Investigations/ management
Diagnostic/ Therapeutic skill			Diagnostic/therapeutic skill		Diagnostic Skill		Therapeutic procedure/ skill		Communication Skill	Management skill	Communication skill	Communication/ management skill

Table of Specification for Ward Cases:

04 x Short Cases				1 x Long Case
1	**2**	**3**	**4**	
Exam Skills				
Clinical Exam				History taking, Clinical exam, Clinical reasoning
Respiratory system	Abdomen	CVS	CNS	Focused History& Examination/ Investigationplan & Managementplan

STAFF CONTACT DEPARTMENT OF MEDICINE:

Sr. No	Tutor Name	Email
01	Prof. Ayub Latif Khawaja	drayubkhawaja@gmail.com
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04	Dr. Aftab Rabbani	aftabrabbani52@gmail.com
05	Dr. Zaheer Akhter	
06	Dr. Amina Malik	
07	Dr. Imran Joher	imran.joher@yahoo.com
08	Dr. Irfan Ahmad	
09	Dr. Faisal Masood	
10	Dr. Ayaz Ahmad	

Official Medicine department correspondence: medicine.smdc@gmail.com

RECOMMENDED BOOKS / MATERIALS:

1. **Davidson's Principles and Practice of Medicine** byDavidson. 23rd edition.
2. **Kumar & Clark's Clinical Medicine** by Parveen J Kumar &Michael Clark. 9th Edition
3. **Hutchison's Clinical Methods** by Michael Swash. 21stedition
4. **Basic psychiatry** by Myre Sim, e. B.Gordon
5. **Oxford Text Book ofPsychiatry**
6. **ABC of Dermatology.** LatestEdition.
7. **Smith's General Urology** by Emil A. Tanagho and Jack W. McAninch 15thedition.2007
8. **OnlineJournalsandReadingMaterials**throughHECDigitalLibraryFacilit y.

RESOURCE PERSONS:

1. **Professor Ayub Latif Khawaja (Head of Department of Medicine)**
2. **Professor Taj Jamshaid (Professor of Medicine)**

Department of Paediatrics and Neonatology

PREFACE

Dear students, this study guide is an effort from the Department of Paediatrics and Neonatology to facilitate you in improving your understanding and knowledge of this subject. This handbook is to make you familiar with the subject, learning objectives, detailed plans of lectures and clinical classes, assessments, and the course contents.

The noble purpose of making you a competent, responsible, knowledgeable, lifelong learner and ethical doctor will only be possible if you work hard and pay extra attention,take keen interest and make untiring efforts to understand and practice not only the subject ofPaediatrics and Neonatology but your whole curriculum. You can make this possible with your discipline, punctuality, attention, dedication, and self- organization. You are always welcome to the department for anything concerning your understanding of the subject or any academic difficulty you face.

We from the Department of Paediatrics and Neonatology, Sharif Medical and Dental College wish and pray for your success in future.

May Allah the Greatest of All, helps you and us in achieving this. Ameen.

Department ofPaediatrics and Neonatology

Sharif Medical and Dental College Lahore

TABLE OF CONTENT

OUTCOMES OFSMDC MBBS PROGRAM

By the end of academic year final year student will be able to:

- **Knowledge**

1. Develop well-rounded and in-depth clinical knowledge specific to paediatrics, using the core patient presentations list as a guide
2. Formulate an age appropriate differential diagnosis
3. Demonstrate an understanding of behavior and child development, and its impact on health and illness

- **Skills**

4. Demonstrate the skills necessary to perform a complete and accurate pediatric history including prenatal, birth, developmental, dietary, immunization, and psychosocial histories
5. Demonstrate the skills necessary to perform a complete and accurate pediatric physical exam including but not limited to an age appropriate neurologic exam, and graph and interpret growth chart data.
6. Prescribe medications which are appropriate for weight and/or age

- **Attitude**

7. Demonstrate effective listening and communication skills with patients, families, and staff (evaluated using 360 evaluations).
8. Demonstrate the behaviors befitting an ethical professional at all times as listed in institutional objectives. Specific to pediatrics the student will exhibit respect, humility, and a teachable attitude with faculty and staff.
9. Advocate for their patients by helping families access appropriate medical specialties and ancillary services like developmental therapies as needed.

Commonly used abbreviations and Logos in the study guide

1. CBL: Case based learning
2. LGIS: Large group interactive session/Lecture
3. Mini-CEX: (minimal clinical evaluation exercise)
4. MIT: Modes of Information Transfer
5. MCQs: Multiple choice questions
6. OSCE: Objective structured clinical examination
7. OSPE: Objective Structured Practical Examination
8. SDL: Self-directed study
9. SAQs: Self assessment Questionnaire
10. SGD: Small group discussion

TIMEALLOCATIONFORACADEMIC ACTIVITIES

TotalTeachingHours for Paediatrics(asrequiredby PMC) = 300 hrs

Duration of Fourth Year MBBSSession

Fourth year	Lectures 1/week 20 weeks	15hours
Ward	Morning 8.15 hours/week 3 weeks	24.45hours
Total		39.45hours

Duration of Final Year MBBS Session

Final year	Lectures 2/week Total lectures79	59.25hrs
Class test	6 including send up	7.15hrs
Ward	Morning 15.5 hours/week 8 weeks Evening 10 hours/week 8 weeks	124hrs 80 hrs
Total		270.4hrs

Fourth and final year combined hours = 39.45 + 270.4 = 310.35 hrs

The Faculty of Department of Pediatrics and Neonatology Prof.

Humayun Iqbal Khan
HEAD OF THE DEPARTMENT
MBBS, FCPS, FCPS, MHPE, MRCPCH

Dr. Nosheen Iftikhar
MBBS, FCPS
Associate Professor

Dr. Allah Nawaz Sultan
MBBS, FCPS
Assistant Professor

Dr. Atif Ashraf
MBBS, FCPS
Senior Registrar

Dr. Muhammad Shahid Jamil
MBBS, FCPS
Senior Registrar

COURSE OUTLINE

FOURTH YEAR MBBS

In fourth year, there will be one lecture every week and we will cover your syllabus of infectious diseases, development, immunizations and vaccinations. During your clinical classes, you will be exposed to the patients in the ward and OPD, where you will develop your clinical competence like history taking, physical examination, investigations planning, management, communication skills, and professionalism.

FINAL YEAR MBBS

In final year MBBS, the students are expected to learn paediatrics and neonatology to such a level that at the end of the session they are able to diagnose a patient of common ailments, with the help of history and physical examination, can devise a plan of investigation, can effectively treat and rehabilitate, apprehend and prevent the common complications of that problem.

The teaching and learning of paediatrics and neonatology is planned in such a way that it will help in achieving all those learning outcomes which are mentioned in the curriculum. In the final year the topics included in the content of syllabus will be taught through lectures, short group discussion/tutorial, bed side teaching and procedural skills will be taught by direct observation and simulation.

Time tables for fourth and final years (lectures and clinical classes)

SHARIF MEDICAL & DENTAL COLLEGE
4th YEAR MBBS CLINICAL ROTATION TIME TABLE
CLASS IS DIVIDED INTO 6 BATCHES (Session 2022 - 2023)

S.M&D.C No/820-21/Path/3348-23/2023 Dated: 12-03-2023

Subbatches	Roll Numbers
I	20001 - 20017
II	20018 - 20029, 20031 - 20035
III	20036 - 20045, 20047 - 20053
IV	20054, 20056 - 20058, 20060, 20062 - 20065, 20067 - 20074
V	20075 - 20090
VI	20091 - 20101, 19023, 19024, 19096, 19090, 16050

Batch & Period of Posting	General Medicine & Dermatology*	General Surgery & Urology**	Paediatrics / Gynae & Obs.***	Cardiology & Nephrology****	Eye	ENT
21st March, 2023 - 10th May, 2023	I	II	III	IV	V	VI
11th May, 2023 - 21st July, 2023	II	III	IV	V	VI	I
22nd July, 2023 - 3rd September, 2023	III	IV	V	VI	I	II
4th September, 2023 - 15th October, 2023	IV	V	VI	I	II	III
16th October, 2023 - 26th November, 2023	V	VI	I	II	III	IV
27th November, 2023 - 15th January, 2024	VI	I	II	III	IV	V

*

21st Mar - 19th Apr	General Medicine	20th Apr - 10th May	Dermatology
11th May - 31st May	General Medicine	1st Jun - 21st Jul	Dermatology
22nd Jul - 11th Aug	General Medicine	12th Aug - 3rd Sep	Dermatology
4th Sep - 24th Sep	General Medicine	25th Sep - 15th Oct	Dermatology
16th Oct - 5th Nov	General Medicine	6th Nov - 26th Nov	Dermatology
27th Nov - 17th Dec	General Medicine	18th Dec - 15th Jan	Dermatology

**

21st Mar - 19th Apr	General Surgery	20th Apr - 10th May	Urology
11th May - 31st May	General Surgery	1st Jun - 21st Jul	Urology
22nd Jul - 11th Aug	General Surgery	12th Aug - 3rd Sep	Urology
4th Sep - 24th Sep	General Surgery	25th Sep - 15th Oct	Urology
16th Oct - 5th Nov	General Surgery	6th Nov - 26th Nov	Urology
27th Nov - 17th Dec	General Surgery	18th Dec - 15th Jan	Urology

***

21st Mar - 19th Apr	Paediatric	20th Apr - 10th May	Gynae & Obs.
11th May - 31st May	Paediatric	1st Jun - 21st Jul	Gynae & Obs.
22nd Jul - 11th Aug	Paediatric	12th Aug - 3rd Sep	Gynae & Obs.
4th Sep - 24th Sep	Paediatric	25th Sep - 15th Oct	Gynae & Obs.
16th Oct - 5th Nov	Paediatric	6th Nov - 26th Nov	Gynae & Obs.
27th Nov - 17th Dec	Paediatric	18th Dec - 15th Jan	Gynae & Obs.

****

21st Mar - 19th Apr	Cardiology	20th Apr - 10th May	Nephrology
11th May - 31st May	Cardiology	1st Jun - 21st Jul	Nephrology
22nd Jul - 11th Aug	Cardiology	12th Aug - 3rd Sep	Nephrology
4th Sep - 24th Sep	Cardiology	25th Sep - 15th Oct	Nephrology
16th Oct - 5th Nov	Cardiology	6th Nov - 26th Nov	Nephrology
27th Nov - 17th Dec	Cardiology	18th Dec - 15th Jan	Nephrology

Copy Forwarded To:

1: Dr. Muhammad Adnan Khan Chief Executive SMC
2: Principal SMDC
3: Principal, College of Dentistry
4: Heads of all concerned Departments
5: Director Administration
6: Notice Boards

Prof. Dr. Maria Aslam
Head Deptt. of Pathology
Chairperson Time Table Committee

SHARIF MEDICAL & DENTAL COLLEGE

TIME TABLE, 4th YEAR MBBS (Session 2022 - 2023)

S.M&D.C No/824-32/Path/3347-23/2023 Dated: 18-03-2023

Day & Time	8:30am-9:15am	9:15am -10:00am	10:00am - 10:45am	10:45am -12:45pm	12:45pm - 02:30pm
Monday	Community Medicine Lecture Lecture Hall 3	Pathology Lecture Lecture Hall 3	ENT Lecture Lecture Hall 3	Pathology Practical A Pathology Tutorial (SGD) B Community Medicine Practical/Tutorial (SGD)/Field Visit C	Hospital Work (SGD) Skill Lab*** Batch I (12:45 - 01:30pm) Batch II (01:30 - 02:30pm)

Day & Time	8:30am-9:15am	9:15am - 10:00am	10:00am - 10:45am	10:45am - 11:30am	11:30am - 02:30pm
Tuesday	Medicine Lecture (21st March - 22nd August) Paediatric Lecture (29th August - 9th January) Lecture Hall 3	Eye Lecture Lecture Hall 3	Community Medicine (Research Methodology) Lecture Lecture Hall 3	Pathology Lecture Lecture Hall 3	Hospital Work (SGD)

Day & Time	8:30am-9:15am	9:15am -10:00am	10:00am - 10:45am	10:45am - 11:00am	11:00am - 12:45pm	12:45pm - 02:30pm
Wednesday	Surgery Lecture Patient Safety Lecture (12th Apr - 26th Apr) Lecture Hall 3	Pathology Lecture Lecture Hall 3	ENT Lecture Lecture Hall 3	Break	Pathology Practical B Pathology Tutorial (SGD) C Community Medicine Practical/Tutorial (SGD)/Field Visit A	Hospital Work (SGD) Skill Lab*** Batch III (12:45 - 01:30pm) Batch IV (01:30 - 02:30pm)

Day & Time	09:15am-10:00am	10:00 am- 10:15am	10:15am - 11:00am	11:00am - 12:00pm	12:00pm - 02:30pm
Thusrday	Community Medicine Lecture Lecture Hall 3 / CPC Lecture Hall 4	Break	Eye Lecture Lecture Hall 3	Medicine Lecture Patient Safety Lecture (4th May - 18th May) Lecture Hall 4	Hospital Work (SGD) Skill Lab*** Batch V (12:00 - 12:45pm) Batch VI (12:45 - 01:30pm)

Day & Time	08:30am - 12:30pm
Friday	Hospital Work (SGD)**

Day & Time	8:30am-9:15am	9:15am -10:00am	10:00am - 10:45am	10:45am-11:00am	11:00am - 12:45pm	12:45pm-01:45pm	01:45pm - 02:30pm
Saturday	Community Medicine Lecture Lecture Hall 3	Gynae/Obs. Lecture Lecture Hall 3	Pathology Lecture* Lecture Hall 1	Break*	Pathology Practical C Pathology Tutorial (SGD) A Community Medicine Practical/Tutorial (SGD)/Field Visit B	Orthopeadics (25th Mar - 29th Jul) Anesthesia (5th Aug - 9th Sep) Neurosurgery (16th Sep - 21st Oct) Urology (28th Oct - 9th Jan) Lecture Hall 3	Community Medicine Lecture Lecture Hall 3

Copy Forwarded To:
1:Dr. Muhammad Adnan Khan Chief Executive SMC
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5:Director Administration
6: Ittefaq Hospital
7: Notice Boards

* Amendments in Time Table ONLY for 2nd Saturday of every month.
1. Break 10:00am - 10:15am
2. No Pathology Lecture
3. Mentorship Session 10:15am - 11:00am

** Medicine, Surgery, ENT, Eye, Gynae/Obs. & Peads batches will go to Ittefaq Hospital on every Friday only.
*** The students of Clinical bactes will spend rest of the time of Hospital Work in their respective wards.
Skill Lab time table will be applicable from 27th March, 2023 to 8th June, 2023.

Prof. Maria Aslam
Head Deptt. of Pathology
Chairperson Time Table Committee

SHARIF MEDICAL & DENTAL COLLEGE

FINAL YEAR MBBS CLINICAL ROTATION TIME TABLE

CLASS IS DIVIDED INTO 5 BATCHES (Session 2022 - 2023)

Dated 28-02-2023 S.M&D.C No/735-4/Path/3319-23/2023 Dated: 25-02-2023

Subbatches	Roll Numbers
I	19001 - 19020
II	19021, 19022, 19025 - 19034, 19036 - 19042
III	19043 - 19061
IV	19062 - 19077, 19079 - 19081
V	19082 - 19089, 19091 - 19095, 19097 - 19101, 18103

Dates	* Medicine / Pulmonology / Gastroenterology	Surgery	Peads	Gynae & Obs.	** Orthopeadics / Emergency / Neurosurgery / Anesthesia
1st Mar - 27th Apr	I	II	III	IV	V
28th Apr - 15th Jun	II	III	IV	V	I
17th Jul - 4th Sep	III	IV	V	I	II
5th Sep - 24th Oct	IV	V	I	II	III
25th Oct - 13th Dec	V	I	II	III	IV

Dates	Medicine	Surgery	Peads	Gynae & Obs.	Orthopeadics
14th Dec- 21st Dec	I	II	III	IV	V
22nd Dec - 6th Jan	II	III	IV	V	I
7th Jan - 15th Jan	III	IV	V	I	II
16th Jan - 23rd Jan	IV	V	I	II	III
24th Jan - 31st Jan	V	I	II	III	IV

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1st Mar - 21st Mar	Medicine	22nd Mar - 12th Apr	Pulmonology	13th Apr - 27th Apr	Gastroenterology
28th Apr - 18th May	Medicine	19th May - 1st Jun	Pulmonology	2nd Jun - 15th Jun	Gastroenterology
17th Jul - 6th Aug	Medicine	7th Aug - 20th Aug	Pulmonology	21st Aug - 4th Sep	Gastroenterology
5th Sep - 25th Sep	Medicine	26th Sep - 9th Oct	Pulmonology	10th Oct - 24th Oct	Gastroenterology
25th Oct - 14th Nov	Medicine	15th Nov - 28th Nov	Pulmonology	29th Nov - 13th Dec	Gastroenterology

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1st Mar - 14th Mar	Orthopeadics	15th Mar - 28th Mar	Emergency	29th Mar - 16th Apr	Neurosurgery
28th Apr - 11th May	Orthopeadics	12th May - 25th May	Emergency	26th May - 5th Jun	Neurosurgery
17th Jul - 30th Jul	Orthopeadics	31st Jul - 13th Aug	Emergency	15th Aug - 25th Aug	Neurosurgery
5th Sep - 18th Sep	Orthopeadics	19th Sep - 2nd Oct	Emergency	3rd Oct - 13th Oct	Neurosurgery
25th Oct - 7th Nov	Orthopeadics	8th Nov - 21st Nov	Emergency	22nd Nov - 1st Dec	Neurosurgery

17th Apr - 27th Apr	Anesthesia
6th Jun - 15th Jun	Anesthesia
26th Aug - 4th Sep	Anesthesia
14th Oct - 24th Oct	Anesthesia
2nd Dec - 13th Dec	Anesthesia

NOTE: Two (02) hours evening classes daily in their respective wards.

Prof. Dr. Maria Aslam
Head Deptt. of Pathology
Chairperson Time Table Committee

Copy Forwarded To:

1: Dr. Muhammad Adnan Khan Chief Executive SMC
2:Principal SMDC
3:Principal. College of Dentistry
4:Heads of all concerned Departments.
5:Director Administration
6: Notice Boards

SHARIF MEDICAL & DENTAL COLLEGE SECRETARIAT No. 262 Dated 5/3/2023 LAHORE

SHARIF MEDICAL & DENTAL COLLEGE

TIME TABLE, FINAL YEAR MBBS (Session 2022 - 2023)

Dated:-> 2-2-2023 S.M&D.C No/727-34/Path/3318-23/2023 Dated: 25-02-2023

SECRETARIAT No. 263 25/02/2023

Day & Time	08:30am-9:15am	09:15am -10:00am	10:00am - 10:45am	10:45am -02:30pm		
Monday	Surgery Lecture Lecture Hall 4	Medicine Lecture Lecture Hall 4	Paediatric Lecture Lecture Hall 4	Hospital Work * (SGD)		
Tuesday	Surgery Lecture Lecture Hall 4	09:15am -01:00pm Hospital Work (SGD)		01:00pm -01:45pm Paediatric Lecture Patient Safety Lecture (14th March) Lecture Hall 4	01:45pm -02:30pm Medicine Lecture Lecture Hall 4	
Wednesday	Gynae/Obs. Lecture Patient Safety Lecture (15th March - 26th April) Lecture Hall 4	09:15am -01:45pm Hospital Work (SGD) **Skill Lab***** Batch I (11:00 - 11:45) Batch II (11:45 - 12:30)		01:45pm -02:30pm Surgery Lecture Lecture Hall 4		
Thusrday	Medicine Lecture Lecture Hall 4	09:15am - 10:00am CPC Lecture Hall 4	10:00am - 10:00am **Break**	10:15am -11:00am Surgery Lecture Lecture Hall 4	11:00am -01:30pm Hospital Work (SGD)	01:30pm -2:30pm Gynae/Obs. Lecture Lecture Hall 4
Friday	Surgery Lecture Lecture Hall 4	09:15am -10:00am Medicine Lecture Lecture Hall 4	10:00am -12:30am Hospital Work (SGD) **Skill Lab***** Batch III (10:00 - 10:45) Batch IV (10:45 - 11:30) Batch V (11:45 - 12:30)	----------		
Saturday	08:30am - 2:30pm Hospital Work (SGD)**					

Copy Forwarded To:

1: Dr. Muhammad Adnan Khan Chief Executive SMC
2:Principal SMDC
3:Principal, College of Dentistry
4:Vice Principal, SMDC
5:Heads of all concerned Departments
6:Director Administration
7: Ittefaq Hospital
8: Notice Boards

* Medicine &Surgery batches will go to Ittefaq Hospital on every Monday & Saturday.
** Medicine, Surgery, Gynae & Paeds batches will go to Itefaq Hospital on every Saturday.
*** The students of Clinical bactes will spend rest of the time of Hospital Work in their respective wards.
Skill Lab time table will be applicable from 1st March, 2023 to 22nd September, 2023.

NOTE: Two (02) hours evening classes daily in their respective wards.

Prof. Maria Aslam
Head Deptt. of Pathology
Chairperson Time Table Committee

Lecture Planner 4th Year MBBS 2023-2024

Date	Day	Time	Topic	Learning Objective	Learning Strategy	Tutor Name
29-08-2023	Tuesday	8:30 am-9:15 am	Introduction to Pediatrics, Measles	Definition Different Terminologies Course Details	Power Point Presentions including videos & images	Dr. Allah Nawaz Sultan
05-09-2023	Tuesday	8:30 am-9:15 am	Tuberculosis	Introduction vaccines Types Mode of administration & Doses Side effects	Power Point Presentions including videos & images	Dr. Allah Nawaz Sultan
12-09-2023	Tuesday	8:30 am-9:15 am	Chicken Pox	Definition Etiology Clinical feature Diagnosis Treatment complications	Power Point Presentions including videos & images	Dr. Allah Nawaz Sultan
19-09-2023	Tuesday	8:30 am-9:15 am	Polio	Definition Etiology Clinical Feature Diagnosis Treatment Complications	Power Point Presentions including videos & images	Dr. Allah Nawaz Sultan
26-09-2023	Tuesday	8:30 am-9:15 am	Tetanus	Definition Etiology Clinical feature Diagnosis Treatment Complications	Power Point Presentions including videos & images	Dr. Allah Nawaz Sultan
03-10-2023	Tuesday	8:30 am-9:15 am	Diphtheria	Definition Etiology Clinical feature Diagnosis Treatment Complications	Power Point Presentions including videos & images	Dr. Allah Nawaz Sultan

10-10-2023	Tuesday	8:30 am-9:15 am	Pertusis	Definition Etiology Clinical feature Diagnosis Treatment Complications	Power Point Presentions including videos & images	Dr. Allah Nawaz Sultan
17-10-2023	Tuesday	8:30 am-9:15 am	Malaria, Dengue	Definition Etiology Clinical feature Diagnosis Treatment Complications	Power Point Presentions including videos & images	Dr. Allah Nawaz Sultan
24-10-2023	Tuesday	8:30 am-9:15 am	Enteric Fever	Definition Etiology Clinical feature Diagnosis Treatment Complications	Power Point Presentions including videos & images	Dr. Allah Nawaz Sultan
31-10-2023	Tuesday	8:30 am-9:15 am	Growth & Development	Definition Patterns of Normal growth Red flags in development	Power Point Presentions including videos & images	Dr. Allah Nawaz Sultan
07-11-2023	Tuesday	8:30 am-9:15 am	IMNCI	Definition Importance of IMNCI Implications Advantages	Power Point Presentions including videos & images	Dr. Allah Nawaz Sultan
14-11-2023	Tuesday	8:30 am-9:15 am	Malnutrition	Definition Etiology Clinical feature Diagnosis Treatment Complications	Power Point Presentions including videos & images	Dr. Allah Nawaz Sultan
21-11-2023	Tuesday	8:30 am-9:15 am	Malnutrition-II	Definition Etiology Clinical feature Diagnosis Treatment Complications	Power Point Presentions including videos & images	Dr. Allah Nawaz Sultan
28-11-2023	Tuesday	8:30 am-9:15 am	Rehumatic Fever	Definition Etiology Clinical feature Diagnosis Treatment	Power Point Presentions including videos & images	Dr. Allah Nawaz Sultan

				Complications		
05-12-2023	Tuesday	8:30 am-9:15 am	Acute Diarrhoea	Definition Etiology Clinical feature Diagnosis Treatment Complications	Power Point Presentions including videos & images	Dr. Allah Nawaz Sultan
12-12-2023	Tuesday	8:30 am-9:15 am	Worm Infestation	Definition Etiology Clinical feature Diagnosis Treatment Complications	Power Point Presentions including videos & images	Dr. Allah Nawaz Sultan
19-12-2023	Tuesday	8:30 am-9:15 am	Worm Infestation-2	Definition Etiology Clinical feature Diagnosis Treatment Complications	Power Point Presentions including videos & images	Dr. Allah Nawaz Sultan

Lecture Planner Final year MBBS. 2023-2024							
No.	**Date**	**Day**	**Time**	**Topic/Assessment**	**Learning objective**	**Learning strategies**	**Name of Tutor**
Respiratory System							
1	7/3/2023	Tuesday	1:00PM 1:45PM	Stridor, Croup / Acute Laryngotracheobronchitis (ALTB)	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Prof. Humayun Iqbal Khan
2	14/3/2023	Tuesday	1:00PM 1:45PM	Bronchiolitis	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Prof. Humayun Iqbal Khan
3	21/3/2023	Tuesday	1:00PM 1:45PM	Pneumonia	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Prof. Humayun Iqbal Khan
4	28/3/2023	Tuesday	1:00PM 1:45PM	Bronchial Asthma	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Prof. Humayun Iqbal Khan
5	11/4/2023	Tuesday	1:00PM 1:45PM	Pneumothorax / Pleural Effusion	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Prof. Humayun Iqbal Khan
6	18/4/2023	Tuesday	1:00PM 1:45PM	Cystic Fibrosis/Bronchiectasis	Introduction Definition	Powerpoint Presentations	Prof. Humayun Iqbal Khan

					Etiology Mode of transmission Clinical features Diagnosis Treatment	including videos and images	
1A- GIT							
7	6/3/2023	Monday	10:00am 10:45am	Acute Diarrhea	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. NosheenIftikhar
8	13/3/2023	Monday	10:00am 10:45am	Chronic Diarrhea / Coeliac Disease	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. NosheenIftikhar
9	20/3/2023	Monday	10:00am 10:45am	Acute Viral Hepatitis and Fulminant Hepatitis	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. NosheenIftikhar
10	27/3/2023	Monday	10:00am 10:45am	Wilson's Disease	Introduction Definition Etiology Mode of Transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. NosheenIftikhar

11	10/4/2023	Monday	10:00am 10:45am	Chronic Liver Disease (CLD) / Portal Hypertension	Introduction Definition Etiology Mode of Transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. NosheenIftikhar
12	17/4/2023	Monday	10:00am 10:45am	Malnutrition	Introduction Definition Etiology Mode of Transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. NosheenIftikhar
13	2/5/2023	Tuesday	1:00PM 1:45PM	Class Test (Respiratory System, GIT, Growth & Development)	Introduction Definition Etiology Mode of Transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. NosheenIftikhar
2-Neonatology							
14	25/4/2023	Tuesday	10:00am 10:45am	Introduction to Neonatology, Neonatal Reflexes, Care of Normal Newborn, Neonatal Resuscitation	Introduction Definition Etiology Mode of Transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Allah Nawaz Sultan
15	9/5/2023	Tuesday	10:00am 10:45am	Birth Asphyxia/Meconium Aspiration Syndrome	Introduction Definition Etiology Mode of Transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Allah Nawaz Sultan

16	16/5/2023	Tuesday	10:00am 10:45am	Prematurity/IUGR	Introduction Definition Etiology Mode of Transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Allah Nawaz Sultan
17	23/5/2023	Tuesday	10:00am 10:45am	Neonatal Hyperbilirubinemia 1	Introduction Definition Etiology Mode of transmission Clinical features	Powerpoint Presentations including videos and images	Dr. Allah Nawaz Sultan
					Diagnosis Treatment		
18	30/5/2023	Tuesday	10:00am 10:45am	Neonatal Hyperbilirubinemia 2	Introduction Definition Etiology Mode of Transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Allah Nawaz Sultan
19	6/6/2023	Tuesday	1:00pm 1:45 pm	Neonatal Sepsis	Introduction Definition Etiology Mode of Transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Allah Nawaz Sultan
20	13/6/2023	Tuesday	1:00pm 1:45 pm	Infant of diabetic mother (IDM)	Introduction Definition Etiology Mode of Transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Allah Nawaz Sultan

21	18/7/2023	Tuesday		Transient Tachypnea of newborn (TTN)/ Respiratory Distress Syndrome (RDS)	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Allah Nawaz Sultan
2A-CNS							
22	8/5/2023	Monday	10:00am 10:45am	Acute Bacterial Meningitis	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
23	15/5/2023	Monday	10:00am 10:45am	Tuberculous Meningitis	Introduction Definition Etiology Mode of	Powerpoint Presentations including videos and	Dr. Nosheen Iftikhar
					transmission Clinical features Diagnosis Treatment	images	
24	22/5/2023	Monday	10:00am 10:45am	Encephalitis / Cerebral Malaria	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
25	29/5/2023	Monday	10:00am 10:45am	Febrile Seizures / Seizure Disorder 1	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar

26	5/6/2023	Monday	10:00am 10:45am	Seizure Disorder 2	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
27	12/6/2023	Monday	10:00am 10:45am	Cerebrovascular Accident	Introduction Definition Etiology Mode of Transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
28	17/7/2023	Monday	10:00am 10:45am	Cerebral Palsy	Introduction Definition Etiology Mode of Transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
29	24/7/2023	Monday	10:00am 10:45am	AFP/GBS	Introduction Definition Etiology	Powerpoint Presentations including videos and	Dr. Nosheen Iftikhar
					Mode of Transmission Clinical features Diagnosis Treatment	images	
30	31/7/2023	Monday	10:00am 10:45am	Duchenne muscular dystrophy	Introduction Definition Etiology Mode of Transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
31	1/8/2023	Tuesday	1:00pm 1:45 pm	Class Test (Neonatology, CNS, EPI, Vaccines, Infections I)	Introduction Definition Etiology Mode of Transmission Clinical features	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar

					Diagnosis Treatment		
3-Renal System							
32	7/8/2023	Monday	10:00am 10:45am	Nephrotic Syndrome	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
33	21/8/2023	Monday	10:00am 10:45am	UTI / Vesicoureteral Reflux (VUR)	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
34	28/8/2023	Monday	10:00am 10:45am	Acute Glomerulonephritis (AGN)	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
35	28/8/2023	Monday	10:00am	Acute Kidney Injury	Introduction	Powerpoint	Dr. Nosheen
			10:45am	(AKI)	Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Presentations including videos and images	Iftikhar
36	4/9/2023	Monday	10:00am 10:45am	Chronic Kidney Disease (CKI)	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
CVS							

37	25/7/2023	Tuesday	1:00pm 1:45 pm	Approach to Acyanotic Heart Diseases (VSD)	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
38	8/8/2023	Tuesday	1:00pm 1:45 pm	PDA, Co-arctation of Aorta	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
39	15/8/2023	Tuesday	1:00pm 1:45 pm	Approach to cyanotic Heart Diseases (ToF / d-TGA)	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
40	22/8/2023	Tuesday	1:00pm 1:45 pm	Rheumatic Fever / Rheumatic Heart Disease	Introduction Definition Etiology Mode of	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
					transmission Clinical features Diagnosis Treatment		
41	29/8/2023	Tuesday	1:00pm 1:45 pm	Infective Endocarditis	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
42	5/9/2023	Tuesday	1:00pm	CCF	Introduction	Powerpoint	Dr. Nosheen

			1:45 pm		Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Presentations including videos and images	Iftikhar
43	12/9/2023	Tuesday	1:00pm 1:45 pm	Myocarditis, Cardiomyopathy	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
44	19/9/2023	Tuesday	1:00pm 1:45 pm	Class Test (Renal, CVS, Infections II)	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
Endocrinology							
45	11/9/2023	Monday	10:00am 10:45am	Short Stature	Introduction Definition Etiology Mode of transmission	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
					Clinical features Diagnosis Treatment		
46	18/9/2023	Monday	10:00am 10:45am	Diabetes Mellitus (1)	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
47	25/9/2023	Monday	10:00am	Diabetes Mellitus (2)	Introduction	Powerpoint	Dr. Nosheen

			10:45am		Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Presentations including videos and images	Iftikhar
48	2/10/2023	Monday	10:00am 10:45am	Congenital Adrenal Hyperplasia	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
49	9/10/2023	Monday	10:00am 10:45am	Thyroid Disorders	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
50	16/10/2023	Monday	10:00am 10:45am	Rickets	Introduction Definition Etiology Mode of transmission Clinical features	Powerpoint Presentations including videos and images	Dr. Nosheen Iftikhar
					Diagnosis Treatment		
4A-Hematology / Oncology							
51	26/9/2023	Tuesday	10:00am 10:45am	Approach to Anemia	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Prof. Humayun Iqbal Khan
52	3/10/2023	Tuesday	1:00pm	Iron Deficiency Anemia	Introduction	Powerpoint	Prof. Humayun

			1:45 pm		Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Presentations including videos and images	Iqbal Khan
53	10/10/2023	Tuesday	1:00pm 1:45 pm	Hemolytic Anemia	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Prof. Humayun Iqbal Khan
54	17/10/2023	Tuesday	1:00pm 1:45 pm	Aplastic Anemia	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Prof. Humayun Iqbal Khan
55	24/10/2023	Tuesday	1:00pm 1:45 pm	Thalassemia	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis	Powerpoint Presentations including videos and images	Prof. Humayun Iqbal Khan
					Treatment		
56	31/10/2023	Tuesday	1:00pm 1:45 pm	Bleeding Disorders (Von Willebrand disease etc), Hemophilia	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Prof. Humayun Iqbal Khan
57	7/11/2023	Tuesday	1:00pm	Immune/Idiopathic	Introduction	Powerpoint	Prof. Humayun

			1:45 pm	Thrombocytopenic Purpura (ITP)	Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Presentations including videos and images	Iqbal Khan
58	14/11/2023	Tuesday	1:00pm 1:45 pm	Acute Leukemia	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Prof. Humayun Iqbal Khan
59	21/11/2023	Tuesday	1:00pm 1:45 pm	Lymphoma	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Prof. Humayun Iqbal Khan
60	28/11/2023	Tuesday	1:00pm 1:45 pm	Class Test (Endocrinology, Hemotology, Oncology)	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Prof. Humayun Iqbal Khan
5-Rheumatology							
61	5/12/2023	Tuesday	1:00pm 1:45 pm	Juvinile Idiopathic Arthritis (JIA)	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Prof. Humayun Iqbal Khan
62	12/12/2023	Tuesday	1:00pm	HSP/Kawasaki's Disease	Introduction	Powerpoint	Prof. Humayun

			1:45 pm		Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Presentations including videos and images	Iqbal Khan
63	19/12/2023	Tuesday	1:00pm 1:45 pm	Systemic Lupus Erythematosus	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Prof. Humayun Iqbal Khan
64	26/12/2023	Tuesday	1:00pm 1:45 pm	Osteomyelitis/Septic Arthritis	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Prof. Humayun Iqbal Khan
5A-Genetics							
65	23/10/2023	Monday	10:00am 10:45am	Overview of Genetics	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Allah Nawaz Sultan
66	30/10/2023	Monday	10:00am	Down Syndrome/ Turner	Introduction	Powerpoint	Dr. Allah Nawaz
			10:45am	Syndrome	Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Presentations including videos and images	Sultan
5A-Miscellaneous							
67	6/11/2023	Monday	10:00am	Poisoning	Introduction	Powerpoint	Dr. Allah Nawaz

			10:45am		Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Presentations including videos and images	Sultan
68	13/11/2023	Monday	10:00am 10:45am	Autism, ADHD, Dyslexia	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Allah Nawaz Sultan
69	27/11/2023	Monday	10:00am 10:45am	Pica, Functional Constipation, Enuresis	Introduction Definition Etiology Mode of transmission Clinical features Diagnosis Treatment	Powerpoint Presentations including videos and images	Dr. Allah Nawaz Sultan
70	4/12/2023	Monday	10:00am 10:45am	Class Test (Rheumatology, Genetics, Miscellaneous)		Written tests	Dr. Allah Nawaz Sultan
				6-Revision classes and class tests			
71	5/12/2023 to 03/01/2023			Revision classes and class tests			

UHS Curriculum for PAEDIATRICS

List of suggested topics for teaching the undergraduates is given below:

- Common problems of children in Pakistan and statistics of Pakistani children.
- Clinical methods in Paediatrics.
- Nutrition (breast feeding, infant feeding, weaning) and nutritional disorders: (PEM, rickets, vitamin A deficiency, iodine deficiency, iron deficiency)
- Growth and development.
- Common pediatric infections: Measles, tetanus, polio, diphtheria, whooping cough, AIDS, malaria, enteric fever, tuberculosis, chicken pox, common skin infections.
- Expanded Program on Immunization (EPI).
- Diarrheal diseases.
- Acute respiratory infections (ARI).
- IMNCI (integrated management of neonatal and childhood illness).
- Neonatology: Resuscitation of new born, care of normal new born, birth asphyxia, premature and low birth weight babies, neonatal jaundice, neonatal sepsis, neonatal fits, respiratory distress of newborn, common skin conditions of neonates, pyloric stenosis, myelomeningocele, hydrocephalus, common congenital abnormalities and birth trauma.
- Neurology: Meningitis, febrile convulsions, epilepsy, cerebral palsy, mental handicap, cerebral malaria, encephalitis
- Cardiology: Congenital heart diseases (cyanotic and acyanotic), rheumatic fever, congestive cardiac failure, clinical assessment of acyanotic neonate/infant.
- Haematology: Anaemias, thalassemia, leukemias, bleeding disorders.
- Nephrology: Nephrotic syndrome, urinary tract infections, acute glomerulonephritis
- Endocrinology: Hypothyroidism, short stature, diabetes mellitus
- Pulmonology: Croup, asthma, tuberculosis, pneumonia, pleural effusions, bronchiolitis.
- Gastroenterology: Abdominal pain, malabsorption, hepatitis, cirrhosis, acute liver failure
- Diarrhea[acute/ chronic],dysentery, worm infestations, giardiasis, amoebiasis, rectal polyp.
- Genetics: Patterns of inheritance, Down's syndrome.
- Social pediatrics: Right of child, child abuse, enuresis, encoparesis, hyperactivity, dyslexia, attention deficit disorder, child safety
- Miscellaneous: Poisoning, prevention of home accidents, behavioral disorder
- Pediatric surgery: Hernia, intussusceptions, intestinal obstruction, tallipes, congenital dislocation of hip, vesicoureteral reflux.

SKILLS:

1. Student will demonstrate his/her ability to obtain a relevant clinical history from a parent or an older child.
2. Student will demonstrate his/her ability to perform adequate clinical examination of a child of any age (including newborn).
3. Student will be able to interpret clinical and laboratory data to arrive at a diagnosis.
4. Student will be able to advise appropriate nutritional measures for healthy and sick children (breast feeding, avoidance of bottle, proper weaning)
5. Student will be able to counsel the parents on health promotive and disease preventive strategies for the child (e.g. immunization procedures; hand washing)
6. Student will be able to recognize and manage common health problems of children.
7. Student will recognize the danger signs of disease in children and be able to appropriately refer children with severe disease to appropriate specialists/hospitals.
8. Student will demonstrate his ability to perform essential clinical procedures relevant to children e.g,

1. Resuscitation of newborn.
2. Basic cardio-pulmonary resuscitation.
3. Anthropometric measurements.
4. Measuring blood pressure.
5. Starting intravenous lines/ draw blood sample.
6. Administration of oxygen.
7. Giving nebulizer therapy [bronchodilator].
8. Use of growth charts.

OBSERVE THE FOLLOWING SKILLS:

i. Lumbar puncture
ii. Bone marrow aspiration
iii. Supra pubic puncture
iv. Subdural tap
v. Thoracocentesis
vi. Liver biopsy
vii. Renal biopsy
viii. Observe passing of foleys catheter
ix. Observe pericardial tap

RECOMMENDED BOOKS:

1. **Text book of Paediatrics** by Pervaiz Akbar Khan
2. **Essentials of Paediatrics** by Nelson. Latest Edition.
3. **Online Journals and Reading Materials** through HEC Digital Library Facility
4. **Pediatric Clinical Methods** by Prof. Humayun Iqbal Khan
5. **Handbook of Hospital Management of Pediatric Patients** by Prof. Humayun Iqbal Khan
6. **Pediatric Clinical Methods** – Practical Manual for Undergraduate Pediatric Rotation
7. **Macleods Clinical Examinations**.

Table of specifications

Topic	Subtopic	Domain			MIT	Assessment tool	Total
		knowledge Attitude	Skill				
Growth and Development 6%	Normal growth in children	Definition Types Etiology in children Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councellin g about disease and its prevention	Provide empathetic care	LGD SGD (bedside teaching) Audio-visual aids X-rays	SEQs MCQs OSPE Long case Short case	2%
	Develop-mental assessment	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	Elicit clinical features Identify radiologic findings Parent counseling	Provide empathetic care	LGD SGD (bedside teaching) Audiovisua l aids X-rays	SEQs MCQs OSPE Long case Short case	2%
	Learning disabilities	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent counseling about disease and its prevention	Provide empathetic care	LGD SGD (bedside teaching) Audiovisua l aids X-rays	SEQs MCQs OSPE Long case Short case	2%
Nutrition 7%	Optimal breast feeding	Types Etiology in children Pathophysiology Clinical features Diagnosis Differential diagnosis	Elicit clinical features Identify radiologic findings	Provide empathetic care	LGD SGD (bedside teaching) Audiovisua l aids X-rays	SEQs MCQs OSPE Long case Short case	2%

		Complications Treatment Prevention	Parent councellin g about disease and its prevention				
	Complementa ry feeding	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	Elicit clinical features Identify radiologic findings Parent councellin g	Provide empathetic care	LGD SGD (bedside teaching) Audiovisua l aids X-rays	SEQs MCQs OSPE Long case Short case	1 %
	Protein energy malnutrition	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councellin g about disease and its prevention	Provide empathetic care	LGD SGD (bedside teaching) Audiovisua l aids X-rays	SEQs MCQs OSPE Long case Short case	2%
	Micronutrient Deficiencies	Definition Types Etiology in children Pathophysiolog y Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councellin g about disease and its prevention	Provide empathetic care	LGD SGD (bedside teaching) Audiovisua l aids X-rays	SEQs MCQs OSPE Long case Short case	2%
National pediatric program 10%	IMNCI	Definition Etiology Pathophysiolog y Clinical features Diagnosis Differential	Elicit clinical features Identify radiologic findings	Provide empathetic care	LGD SGD (bedside teaching) Audiovisua l aids X-rays	SEQs MCQs OSPE Long case Short case	5%

		diagnosis Complications Treatment	Parent counseling				
	EPI (IMMUNIZATION)	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent counseling about disease and its prevention	Provide empathetic care	LGD SGD (bedside teaching) Audiovisual aids X-rays	SEQs MCQs OSPE Long case Short case	5%
Respiratory system 9%	Pneummonia	Definition Types Etiology in children Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent counseling about disease and its prevention	Provide empathetic care	LGD SGD (bedside teaching) Audiovisual aids X-rays	SEQs MCQs OSPE Long case Short case	1%
	Bronchiolitis	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	Elicit clinical features Identify radiologic findings Parent counseling	Provide empathetic care	LGD SGD (bedside teaching) Audiovisual aids X-rays	SEQs MCQs OSPE Long case Short case	2%
	Bronchial asthma	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent counseling about disease and its prevention	Provide empathetic care	LGD SGD (bedside teaching) Audiovisual aids X-rays	SEQs MCQs OSPE Long case Short case	2%
	croup	Definition	Elicit	Provide	LGD	SEQs	

		Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	clinical features Identify radiologic findings Parent counseling	empatheti c care	SGD (bedside teaching) Audiovisua l aids X-rays	MCQs OSPE Long case Short case	1%
	Pneumo-thorax	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	Elicit clinical features Identify radiologic findings Parent counseling	Provide empatheti c care	LGD SGD (bedside teaching) Audiovisua l aids X-rays	SEQs MCQs OSPE Long case Short case	0.5 %
	Pleural effusion	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent counseling about disease and its prevention	Provide empatheti c care	LGD SGD (bedside teaching) Audiovisua l aids X-rays	SEQs MCQs OSPE Long case Short case	0.5 %
	Upper respiratory infections	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent counseling	Provide empatheti c care	LGD SGD (bedside teaching) Audiovisua l aids X-rays	SEQs MCQs OSPE Long case Short case	1%
	ARI control programme by WHO	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	Elicit clinical features Identify radiologic findings Parent counseling	Provide empatheti c care	LGD SGD (bedside teaching) Audiovisua l aids X-rays	SEQs MCQs OSPE Long case Short case	1%
GIT and liver	Acute	Definition	Elicit	Provide	LGD	SEQs	4%

10%	diarrhea	Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	clinical features Identify radiologic findings Parent councelling about disease and its prevention	empatheti c care	SGD (bedside teaching) Audiovisua l aids X-rays	MCQs OSPE Long case Short case	
	Chronic diarrhea	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent counseling	Provide empatheti c care	LGD SGD (bedside teaching) Audiovisua l aids X-rays	SEQs MCQs OSPE Long case Short case	2%
	Dysentery	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	Elicit clinical features Identify radiologic findings Parent counseling	Provide empatheti c care	LGD SGD (bedside teaching) Audiovisua l aids X-rays	SEQs MCQs OSPE Long case Short case	1%
GIT	Acute hepatitis 2%	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councellin g about disease and its prevention	Provide empathetic care	LGD SGD (bedside teaching) Audiovisua l aids X-rays	SEQs MCQs OSPE Long case Short case	
	Chronic liver disease in children 1%	Definition Etiology Pathophysiology Clinical features Diagnosis Differential	Elicit clinical features Identify radiologic	Provide empathetic care	LGD SGD (bedside teaching) Audiovisua l aids	SEQs MCQs OSPE Long case Short case	

		diagnosis Complications Treatment Prevention	findings Parent counseling		X-rays	
CVS 10%	Ventricular septal defect 2%	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	Elicit clinical features Identify radiologic findings Parent counseling	Provide empathetic care	LGD SGD (bedside teaching) Audiovisual aids X-rays	SEQs MCQs OSPE Long case Short case
	Atrial septal defect 0.5%	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent counseling about disease and its prevention	Provide empathetic care	LGD SGD (bedside teaching) Audiovisual aids X-rays	SEQs MCQs OSPE Long case Short case
	Patent ductus arteriosus 0.5%	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent counseling	Provide empathetic care	LGD SGD (bedside teaching) Audiovisual aids X-rays	SEQs MCQs OSPE Long case Short case
	Tetralogy of fallot 2%	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	Elicit clinical features Identify radiologic findings Parent counseling	Provide empathetic care	LGD SGD (bedside teaching) Audiovisual aids X-rays	SEQs MCQs OSPE Long case Short case
	Rheumatic fever 2%	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis	Elicit clinical features Identify radiologic findings	Provide empathetic care	LGD SGD (bedside teaching) Audiovisual aids X-rays	SEQs MCQs OSPE Long case Short case

		Complications Treatment Prevention	Parent counseling about disease and its prevention			
	Myocarditis 0.5%	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent counseling	Provide empathetic care	LGD SGD (bedside teaching) Audiovisual aids X-rays	SEQs MCQs OSPE Long case Short case
	pericarditis 0.5%	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	Elicit clinical features Identify radiologic findings Parent counseling	Provide empathetic care	LGD SGD (bedside teaching) Audiovisual aids X-rays	SEQs MCQs OSPE Long case Short case
	Congestive cardiac failure 1%	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent counseling about disease and its prevention	Provide empathetic care	LGD SGD (bedside teaching) Audiovisual aids X-rays	SEQs MCQs OSPE Long case Short case
	infective endocarditis 1%	Definition Types Etiology in children Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councelling about disease and its prevention	Provide empathetic care	LGD SGD (bedside teaching) Audiovisual aids X-rays	SEQs MCQs OSPE Long case Short case
Hematology	Iron	Definition Etiology	Elicit clinical	Provide empathetic	LGD SGD	SEQs MCQs

10%	deficiency anemia 1%	Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	features Identify radiologic findings Parent counseling	care	(bedside teaching) Audiovisual aids X-rays	OSPE Long case Short case
	Megaloblastic anemia 1%	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent counseling about disease and its prevention	Provide empathetic care	LGD SGD (bedside teaching) Audiovisual aids X-rays	SEQs MCQs OSPE Long case Short case

Topic	Subtopic	Domain			MIT	Assessment tool	Total
		knowledge	Skill	Attitude			
	Hemolytic Anemias 2%	Definition Types Etiology in children Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent counseling about disease and its prevention	Provide empathetic care	LGD SGD (bedside teaching) Audiovisu al aids X-rays	SEQs MCQs OSPE Long case Short case	2%
	Aplastic anemia 2%	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	Elicit clinical features Identify radiologic findings Parent	Provide empathetic care	LGD SGD (bedside teaching) Audiovisu al aids X-rays	SEQs MCQs OSPE Long case Short case	2%

			counseling				
	leukemia 1%	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councelling about disease and its prevention	Provide empathetic care	LG D SG D (bedside teaching) Audiovis u al aids X-rays	SEQs MCQ s OSPE Long case Short case	1%
	Lymphoma 1%	Definition Types Etiology in children Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councelling about disease and its prevention	Provide empathetic care	LG D SG D (bedside teaching) Audiovis u al aids X-rays	SEQs MCQ s OSPE Long case Short case	1%
	IT P 1%	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	Elicit clinical features Identify radiologic findings Parent counseling	Provide empathetic care	LG D SG D (bedside teaching) Audiovis u al aids X-rays	SEQs MCQ s OSPE Long case Short case	1%
	Hemophilia 1%	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis	Elicit clinical features Identify radiologic findings Parent	Provide empathetic care	LG D SG D (bedside teaching) Audiovis u al aids X-rays	SEQs MCQ s OSPE Long case Short case	1%

		Complications Treatment Prevention	councelling about disease and its prevention				
Renal System 10%	Nephrotic Syndrome 3%	Definition Types Etiology in children Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councelling about disease and its prevention	Provide empathetic care	LG D SG D (bedside teaching) Audiovis u al aids X-rays	SEQs MCQ s OSPE Long case Short case	3%
	Acute post Streptococcal Glomerulo-nephritis 2%	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	Elicit clinical features Identify radiologic findings Parent counseling	Provide empathetic care	LG D SG D (bedside teaching) Audiovis u al aids X-rays	SEQs MCQ s OSPE Long case Short case	2%
	UT I 1%	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councelling about disease and its prevention	Provide empathetic care	LG D SG D (bedside teaching) Audiovis u al aids X-rays	SEQs MCQ s OSPE Long case Short case	1%
	Acute renal Failure	Definition Types Etiology in children	Elicit clinical features	Provide empathetic care	LGD SGD (bedside teaching)	SEQs MCQs OSPE Long case	

	2%	Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Identify radiologic findings Parent counseling about disease and its prevention		Audiovisual aids X-rays	Short case	2%
	Chronic renal failure 2%	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	Elicit clinical features Identify radiologic findings Parent counseling	Provide empathetic care	LG D SG D (bedside teaching) Audiovis u al aids X-rays	SEQs MCQ s OSPE Long case Short case	2%
Endocrinology 8%	Hypothyro-dism	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councelling about disease and its prevention	Provide empathetic care	LG D SG D (bedside teaching) Audiovis u al aids X-rays	SEQs MCQ s OSPE Long case Short case	3%
	Diabetes mellitis	Definition Types Etiology in children Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councelling about disease and its prevention	Provide empatheti c care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	3%

	Cushing syndrome	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	Elicit clinical features Identify radiologic findings Parent counseling	Provide empatheti c care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	1%
	Growth hormone deficiency	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councelling about disease and its prevention	Provide empatheti c care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	1%
Neonatology 10%	Changes from Fetal to neonatal life	Definition Types Etiology in children Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councelling about disease and its prevention	Provide empathetic care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	0.5%
	High risk pregnancy	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications	Elicit clinical features Identify radiologic findings	Provide empathetic care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	

		Treatment	Parent counseling				0.5%
	Birth asphyxia And resuscitation Of newborn	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councelling about disease and its prevention	Provide empathetic care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	1%

Topic	Subtopic	Domain			MIT	Assessment tool	Total
		knowledge	Skill	Attitude			
	Approach to tachypnea in Newborn	Definition Types Etiology in children Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councelling about disease and its prevention	Provide empathetic care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	1%
	prematurity	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications	Elicit clinical features Identify radiologic findings	Provide empathetic care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	

		Treatment	Parent counseling				1%
	Neonatal sepsis	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councelling about disease and its prevention	Provide empathetic care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	2%
	Neonatal fits	Definition Types Etiology in children Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councelling about disease and its prevention	Provide empathetic care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	1%
	Neonatal jaundice	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	Elicit clinical features Identify lab findings Parent counseling	Provide empathetic care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	1%
	Congenital malformations	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis	Elicit clinical features Identify radiologic findings Parent	Provide empathetic care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	

		Complications Treatment Prevention	councelling about disease and its prevention				2%
Common Surgical problems 5%	Hirshsprung,s disease	Definition Types Etiology in children Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councelling about disease and its prevention	Provide empathetic care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	1%
	Acute appendicitis	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	Elicit clinical features Identify radiologic findings Parent counseling	Provide empathetic care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	2%
	Acute intestinal obstruction	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councelling about disease and its prevention	Provide empathetic care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	2%
Genetics 1.5%	Down syndrome	Definition Etiology Pathophysiolog	Elicit clinical features	Provide empatheti c care	LG D SG D (bedside	SEQs MCQ s OSPE	

		y Clinical features Diagnosis Differential diagnosis Complications Treatment	Identify radiologic findings Parent counseling		teaching) Audiovisual aids X-rays	Long case Short case	1%
	Turner syndrome	Definition Classification Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councelling about disease and its prevention	Provide empathetic care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	0.5%
Common Accidents And Poisonings 2%	Kerosene oil poisoning	Definition Types Etiology in children Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councelling about disease and its prevention	Provide empathetic care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	0.5%
	Organopho-sphate poisoning	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	Elicit clinical features Identify radiologic findings Parent counseling	Provide empathetic care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	0.5%
	Acids/alkalies	Definition Classification	Elicit clinica l	Provide empathetic	LG D SG D	SEQs MCQ s	

	ingestion	Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	features Identify radiologic findings Parent councelling about disease and its prevention	care	(bedside teaching) Audiovisual aids X-rays	OSPE Long case Short case	0.5%

Topic	Subtopic	Domain			MIT	Assessment tool	Total
		knowledge	Skill	Attitude			
	Drowning	Definition Types Etiology in children Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment Prevention	Elicit clinical features Identify radiologic findings Parent councelling about disease and its prevention	Provide empathetic care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	0.5%
Social pediatrics And Statistics 0.5%	Health indicators and Rights of children	Definition Etiology Pathophysiology Clinical features Diagnosis Differential diagnosis Complications Treatment	Elicit clinical features Identify radiologic findings Parent councelling	Provide empathetic care	LG D SG D (bedside teaching) Audiovisual aids X-rays	SEQs MCQ s OSPE Long case Short case	0.5%
Basic life Support 1%	BLS COURSE	Definition Importance of team work Chest compression depth Ventilation to	Correct placement of hands for chest compression Demonstrate correct	Provide empathetic care Parents counseling	LG D SG D Audiovisual Aids	SEQs MCQ s OSPE	1%

		compression ratio Medicines used during CPR	compression depth and compression to ventilation ratio				

CLINICAL TEACHING:

Clinical teaching of students of 4th& final year MBBS is done at the affiliated hospitals.

1. Sharif Medical City Hospital, Raiwind Road, Lahore.
2. Ittefaq Teaching Hospital, Model Town Lahore.

Clinical Teaching Strategies:

- **Out Patient department Teaching**
- **Ward Teaching**
  - History taking
  - Clinical methods
  - Bedside teaching
  - Ward rounds
  - Case presentation by the students
  - Case discussions
- **Clinical Tutorials**
- **Clinico-pathological Conference**
- **OSCE/OSPE Examination Practice**
- **Clinical Cards/Log book,** to document and monitor clinical training.

Clinical Classes:

Clinical classes are meant to develop clinical orientation, and approach in a medical student to make him knowledgeable and expert in dealing with patients in all aspects including, history taking general &

systematic physical examinations, investigations, treatment, rehabilitations, counseling, follow-ups, and possible complications. Students are taught how to manage a patient as a whole, not the concerned disease only.

In department ofPediatrics and Neonatology, students will visit the hospital five days a week on a specified time for approximately 07 weeks. The details of important topics to be covered in these classes are given below:

- History taking (already taught in4th year) will be revised and polished almost daily.
- General physical examination
- Examination of the Abdomen
- Examination of the Chest
- Examination of the CVS
- Examination of the Nervous system
- Examination of the locomotor system
- Case presentations/ discussions as long case
- Common investigations
- Medical instruments
- Medical procedures
- OSCE
- Format of final Clinical Examination

FEEDBACK

The teaching faculty will give constructive feedback on the performance of the students. This will be individual in clinical classes and collective in class tests and ward tests (however students who fail to perform well in tests or those who want to know about their performance may be given individual feedback). Students should take all the feedbacks in positive spirit & attitude to find out the level of their performance, areas where they need improvements and suggestions and guidance from the teachers, how to improve the weaknesses etc. the sole purpose of feedbacks is to improve the learning of students.

ATTENDANCE

- Students are required to ensure maximum attendance in all sections including lectures and clinical classes.
- Minimum attendance to qualify for appearing in final professional examination is 75% of lectures and clinical classes. But this is not the desired level. All students should make sure that they attend the classes 100%, except some unavoidable circumstances. Because missing one lecture or clinical class means one has missed a topic, a disease or an important aspect of the subject.
- If a student is continuously absent for 07 days or more, his /her name will be struck off from the college, and he /she will have to get re-admission after consideration by the administration.

INTERNAL ASSESSMENT

Internal assessment carries 10% weightage in final professional examination, meaning that out of 200 marks of Paediatrics Medicine 20 marks are decided by the performance of student in the whole academic year. This will comprise of marks in;

- Class tests
- Ward test
- Send up examination
- Class attendance
- Ward attendance

FORMAT OF PAEDIATRICS EXAMINATION & TABLE OF SPECIFICATIONS IN FINAL PROFESSIONAL EXAMS

Total marks = 200

- Theory=90

  45 MCQs (45 marks) and 9 SEQs(45 marks)

- Clinical examination = 90
  - OSCE will be of 40 marks
  - One Long case 18 marks
  - Two Short cases 32 marks

- Internal assessment = 20

Following are the tables of specifications for theory papers inPaediatrics Medicine. These are mainly guidelines and minor changes may be done in TOS, according to the requirements if necessary.

Table of Specifications (TOS) for Final Professional Examination:

No.	Topics	SEQs	MCQs
1	CVS	01	03
2	CNS	01	04
3	GIT &hepatobiliary system	01	05
4	Respiratory system	01	04
5	Infectious diseases	01	06
6	Hematology, Oncology	01	03
7	Renal, Electrolyte, acid-base balance	00	02
8	Endocrinology	01	04
9	Bones, joints, muscles	00	02
10	Growth, development and nutrition	01	04
11	Neonatology	00	04
12	Dermatology	00	02
13	Miscellaneous	01	02
	Total	**09**	**45**