

## Reproduction Module

# Integrated Clinically Oriented Modular Curriculum 4<sup>th</sup> Year MBBS 2023







Department of Medical Education



## Fourth Year MBBS 2023

Study Guide

Population Medicine and Reproduction Module

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## Reproduction Module Team

Module Name : Population medicine and Reproduction Module

Duration of module : 07 Weeks

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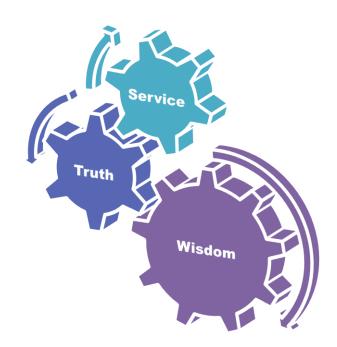
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#### **RMU Motto**



## University Motto, Vision, Values & Goals

#### Mission Statement

To impart evidence-based research-oriented health professional education in order to provide best possible patient care and inculcate the values of mutual respect, ethical practice of healthcare and social accountability.

#### Vision and Values

Highly recognized and accredited centre of excellence in Medical Education, using evidence-based training techniques for development of highly competent health professionals, who are lifelong experiential learner and are socially accountable.

#### Goals of the Undergraduate Integrated Modular Curriculum

The Undergraduate Integrated Learning Program is geared to provide you with quality medical education in an environment designed to:

- Provide thorough grounding in the basic theoretical concepts underpinning the practice of medicine.
- Develop and polish the skills required for providing medical services at all levels of the Health care delivery system.
- Help you attain and maintain the highest possible levels of ethical and professional conduct in your future life.
- Kindle a spirit of inquiry and acquisition of knowledge to help you attain personal and professional growth & excellence.

## Reproduction Module Outcomes

Introduction: Reproduction module provides integration of core concepts that underlie the foundation of basic sciences and their use in clinical medicine. This will eventually lead to develop critical thinking for integration and application of basic knowledge for clinical application.

Rationale: The Reproduction module is designed to impart basic knowledge about Obs/Gynea, Pathology, Pharmacology, and Community Medicine. This knowledge will serve as a base onwhich the student will construct further knowledge about the etiology, pathogenesis and prevention of diseases; the principles of their therapeutics and management.

#### Module Outcomes

Each student will be able to:

#### Knowledge

Acquire knowledge about the basic terminologies used in Obs/Gynae, Pathology, Pharmacology, and Community Medicine as well as the concepts of diseases in the community.

Appreciate concepts & importance of

- Research
- Biomedical ethics
- Family medicine
- Professionalism, Communication Skills

#### Skills

Interpret and analyze various practicals of basic Sciences and relevant skills of clinical sciences.

#### Attitude

Demonstrate a professional attitude, team-building spirit, and good communication skills

This module will run for 7 weeks duration. The content will be covered throughthe introduction of topics. Instructional strategies are given int the timetable and learning objectives are given in the study guides. Study guides will be uploaded on the university website. Good luck!

#### Terms & Abbreviations

#### Contents

- Domains of Learning
- Teaching and Learning Methodologies/Strategies
  - Large Group Interactive Session (LGIS)
  - Small Group Discussion (SGD)
  - Self-Directed Learning (SDL)
  - Clinical / practicals

## Tables & Figures

- Table 1. Domains of learning according to Blooms Taxonomy
- Figure 1. Prof Umar's Model of Integrated Lecture
- Table 2. Standardization of teaching content in Small Group Discussions
- Table 3. Steps of taking Small Group Discussions

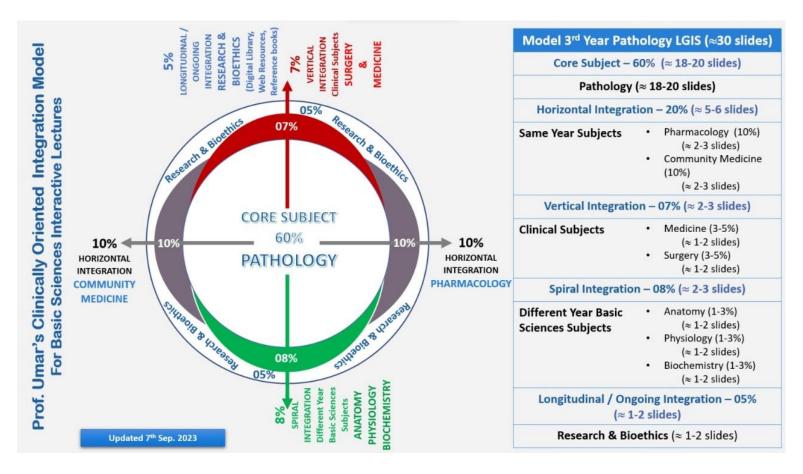
## Domains of learning according to Blooms Taxonomy

Sr. #	Abbreviation	Domains of learning
	С	Cognitive Domain: knowledge and mental skills.
	C1	Remembering
	C2	Understanding
1.	C3	Applying
	C4	Analyzing
	C5	Evaluating
	C6	Creating
	P	Psychomotor Domain: motor skills.
	P1	Imitation
2.	P2	Manipulation
<b>2.</b>	P3	Precision
	P4	Articulation
	P5	Naturalization
	A	Affective Domain: feelings, values, dispositions, attitudes, etc
	A1	Receive
3.	A2	Respond
	A3	Value
	A4	Organize
	A5	Internalize

#### Teaching and Learning Methodologies / Strategies

### Large Group Interactive Session (LGIS)

The large group interactive session is structured format of Prof Umar Model of Integrated lecture. It will be followed for delivery of all LGIS. Lecturer will introduce a topic or common clinical condition and explains the underlying phenomena through questions, pictures, videos of patients, interviews and exercises, etc. Students are actively involved in the learning process.



Prof Umar's Model of LGIS

## Small Group Discussion (SGD)

This format helps students to clarify concepts acquire skills and attitudes. Sessions are structured with the help of specific exercises such as patient case, interviews or discussion topics or power point presentations. Students exchange opinions and apply knowledge gained from lectures, SGDs and self study. The facilitator role is to ask probing questions, summarize and helps to clarify the concepts.

Table 2.

Standardization of teaching content in Small Group Discussions

S.No	Topics	Approximate %
1	Title Of SGD	
2	Learning Objectives from Study Guides	
3	Horizontal Integration	5%+5% = 10%
4	Core Concepts of the topic	70%
5	Vertical Integration	10%
6	Related Advance Research points	3%
7	Biomedical Ethical points	2%
8	Spiral integration	5%

Table 3. Steps of taking Small Group Discussions

Step 1	Sharing of Learning objectives by using students Study guides	First 5 minutes
Step 2	Asking students pre-planned questions from previous teaching sessionto develop co-relation (these questions will be standardized)	5minutes
Step 3	Students divided into groups of three and allocation of learning objectives	5minutes
Step 4	ACTIVITY: Students will discuss the learning objectives among themselves	15 minutes
Step 5	Each group of students will present its learning objectives	20 min
Step 6	Discussion of learning content in the main group	30min
Step 7	Clarification of concept by the facilitator by asking structured questions from learning content	15 min
Step 8	Questions on core concepts	
Step 9	Questions on horizontal integration	
Step 10	Questions on vertical integration	
Step 11	Questions on related research article	
Step 12	Questions on related ethics content	
Step 13	Students Assessment on online MS teams (5 MCQs)	5 min
Step 14	Summarization of main points by the facilitator	5 min
Step 15	Students feedback on the SGD and entry into log book	5 min
Step 16	Ending remarks	

## Self Directed Learning (SDL)

- Self-directed learning is a process where students take primary charge of planning, continuing and evaluating their learning experiences.
- Time Home assignment
- Learning objectives will be defined
- Learning resources will be given to students = Text book (page no), web site
- Assessment: Will be online on LMS every Tuesday during the reproduction module.

#### Learning Objectives, Teaching Strategies & Assessments

#### Contents

- Introduction to RMU and Disciplines
- Medical Education and Integrated Disciplines
- Horizontally Integrated Basic Sciences (Anatomy, Physiology, Pharmacology, Pathology, Community Medicine)
- Large Group Interactive Session:

•	Obs/Gynae	(LGIS)
•	Community Medicine	(LGIS)
•	Pathology	(LGIS)
•	Pharmacology	(LGIS)

- Surgery (LGIS)Medicine (LGIS)
- Pediatrics (LGIS)
- Small Group Discussions

• Obs/Gynae (SGD)

• Pharmacology (SGD)

• Pathology (SGD)

• Community Medicine (SGD)

• Self Directed Topic, Learning Objectives & References

• Obs/Gynae (SDL)

• Pharmacology (SDL)

• Pathology (SDL)

- Community Medicine (SDL)
- Rotation of Wards, operation theatres

## Learning Objectives Of OBS/GYNAE (LGIS)

Торіс	Learning objectives  At the end of the lecture the student should be able to	Learning domain	Teaching strategy	Assessment tool
	Obs/Gynae			
Basic terminologies in obstetrics  Basic antenatal care	Enlist the aims of antenatal care.  •discuss the importance of early booking and regular anc.  •discuss important points in obstetric history and examination.  •enlist the booking investigations.  •explain the method of calculating edd and gestational age.  •elaborate the recommended schedule of antenatal visits.  •categorize the obstetric patient into high risk and low risk groups.  •define term, preterm, post term, post-dates, lbw, vlbw, lie, presentation, position, attitude and engagment of fetus.	C1 C2 C2 C1 C2 C2 C2 C3 C1	LGIS	MCQS SAQ
Minor pregnancy disorders Nutrition in pregnancy	<ul> <li>enlist the common minor problems of pregnancy.</li> <li>discuss the physiological basis of these disorders</li> <li>describe their management options.</li> <li>discuss the importance of healthy diet and lifestyle in pregnancy.</li> <li>describe dietary and caloric requirements during pregnancy.</li> <li>Calculate the recommended dose of iron in pregnancy.</li> </ul>	C1 C2 C2 C2 C2 C2 C3	LGIS	MCQS SAQ
Prenatal diagnosis	Define prenatal diagnoses.  • enlist the conditions diagnosed with prenatal tests.  • identify the high risk women for prenatal diagnostic testing.  •name the non invasive and invasive tests.  • elaborate the timing, method, complications and diagnostic accuracy of each test.  • explain the risk prediction method for down's syndrome.	C1 C1 C1 C1 C2 C2	LGIS	MCQS SAQ
Early pregnancy complications ( miscarriages, ectopic preganncy)	<ul> <li>•define miscarriage and its types.</li> <li>•elaborate the risk factors.</li> <li>explain the clinical features of all types of miscarriage.</li> <li>• discuss key management principles of different types of miscarriages including counseling for future pregnancies.</li> </ul>	C1 C2 C2	LGIS	MCQS SAQ
	•define ectopic pregnancy and its common sites.	C1		

	<ul> <li>enumerate it's risk factors.</li> <li>discuss the clinical features of ectopic pregnancy.</li> <li>enlist the diagnostic investigations for it.</li> <li>describe the different management options for ectopic pregnancy and its follow up.</li> </ul>	C1 C2 C1 C3		
Induced and septic abortions	Define induced septic abortion.  •describe their clinical presentations and investigations required.  •enumerate the complications of induced septic abortion.  •discuss the management plan and follow up.	C1 C2 C1 C2	LGIS	MCQS SAQ
Diagnosis of labour  First stage of labour  and management	Define labour and its different stages.  • discuss the maternal and fetal anatomy relevant to labor and delivery.  •identify the signs of onset of labour.  • describe the normal progress of labor in relation to partogram.  • explain the methods of fetal monitoring during labor and their normal values.  •describe the significance of power, passage and passengers.  •discuss importance of adequate hydration and diet during labour.	C1 C2 C1 C2 C1 C2 C2	LGIS	MCQS SAQ
Abnormalities of 1st stage of labour	Describe the abnormalities of 1st stage of labour.  •discuss the contribution of power, passage and passenger in progress of labour.  • identify the abnormal progress of labor on partogram.	C2 C2 C1	LGIS	MCQS SAQ
Normal Ctg	Scenario based discussion on fetal monitoring during labour after which students will be able to •enlist different methods of fetal assessment during labour. •identify the 04 basic fhr parameters to be interpreted on ctg trace. •differentiate between normal and abnormal ctg patterns. •discuss conditions in which continuous electronic fhr monitoring is required.	C1 C2 C2 C2	LGIS	MCQS SAQ

Second stage of labour	define the second stage of labour and its normal duration. C1	C1	LGIS	MCQS
Normal labour	•discuss the management of second stage of labour. C2	C2 C2		SAQ
Normai iaooui	<ul> <li>discuss role of power passage and passenger in prolong second stage of labour. C2</li> <li>describe the mechanism of normal labour. C2</li> </ul>	C2 C2		S/1Q
Episiotomy Operative vaginal delivery	<ul> <li>•define episiotomy.</li> <li>• enlist its different types.</li> <li>•explain anatomical structures involved in episiotomy.</li> <li>•identify indications of episiotomy in correlation with the patient's condition.</li> <li>• discuss complications of episiotomy.</li> <li>• define operative vaginal delivery.</li> <li>• discuss the urgency of operative vaginal deliveries.</li> <li>•enumerate its indications.</li> <li>• discuss prerequisites of operative vaginal delivery.</li> <li>• discuss methods for application of forceps and vacuum.</li> <li>• enlist the complications of operative vaginal delivery.</li> </ul>	C1 C1 C2 C3 C2 C1 C2 C1 C2 C2 C2	LGIS	MCQS SAQ
Abdominal delivery	define abdominal delivery.  • discuss briefly the anatomy of anterior abdominal wall.  • discuss the indications of c-section.  • categorize the caesarean section according to rcog.  • explain the steps of lscs.  • describe the steps of cesarean section.  • discuss the complications associated with lscs.	C1 C2 C2 C3 C2 C2 C2	LGIS	MCQS SAQ
Third stage of labour and its complications ( retained placenta, uterine inversion)	Define third stage of labour  •discuss management of third stage of labour.  •define post partum hemorrhage.  *primary post-partum haemorrhage.  *secondary post-partum haemorrhage.  •discuss the risk factors for post-partum haemorrhage.	C1 C2 C1 C1 C1 C2	LGIS	MCQS SAQ
Post partum hemorrhage	<ul> <li>describe the signs, symptoms and diagnosis of primary pph.</li> <li>discuss the investigations and management of primary post-partum haemorrhage.</li> <li>describe the signs, symptoms and diagnosis of secondary post-partum haemorrhage.</li> <li>discuss investigations and management of secondary postpartum haemorrhage.</li> </ul>	C2 C2 C2 C2	LGIS	MCQS SAQ

Puerperium and its	•define puerperium.	C1	LGIS	MCQS
complications	• explain the normal physiological changes of normal puerperium.	C2	Lois	SAQ
<del></del>	•discuss the postnatal care during puerperium.	C2		
	•identify the common disorders of puerperium and their management.	C1		
Contraception	define contraception.	C1	LGIS	MCQS
	•discuss different methods of contraception and their mechanism of action.	C2		SAQ
	•enlist side effects and failure rate of each contraception.	C1		
	•explain emergency contraception.	C2		
Multiple pregnancy	•define multiple pregnancy.	C1	LGIS	MCQS
	• discuss the types of twin gestation according to chorionicity and zygosity.	C2		SAQ
	• interpret the ultrasound findings of multiple pregnancy in first trimester.	C3		
	<ul> <li>discuss the antenatal care in twin pregnancy.</li> <li>discuss the fetomaternal complications associated with multiple pregnancy.</li> </ul>	C2 C2		
	•plan the mode of delivery according to presentation of first twin.	C2 C3/C4		
	•describe the mechanism of delivery of twins.	C3/C4		
	, and a second control of the second control	C2		
Antepartum		C1	LGIS	MCQS
nemorrhage	•define antepartum haemorrhage	C1		SAQ
	•enlist causes of aph.	C3		
	•differentiate clinically between placenta previa and placental abruption.	C2		
	• elaborate the emergency approach towards the patient with massive haemorrhage.	C3		
	<ul> <li>discuss management plan for placenta previa.</li> </ul>	C3		
	<ul> <li>discuss the management plan for placental abruption.</li> </ul>			

Perineal	• elaborate the infections causing congenital abnormalities.	C1	LGIS	MCQS
nfections	<ul> <li>explain the congenital infections causing preterm birth and pregnancy loss.</li> <li>identify infections acquired around time of birth causing serious neonatal consequences.</li> <li>discuss the perinatal infections causing long term disease.</li> </ul>	C1 C2 C1 C2		SAQ
Preterm labor PPROM	<ul> <li>define preterm labour.</li> <li>enlist its causes.</li> <li>plan the management of patient with preterm labour.</li> <li>discuss fetal implications of preterm birth.</li> <li>define pprom.</li> <li>enlist its causes.</li> <li>plan the management of patient with pprom.</li> <li>discuss fetomaternal complications of pprom.</li> </ul>	C1 C1 C3 C2 C1 C1 C3 C2	LGIS	MCQS SAQ
Prolonged pregnancy/Inducti on of labour	<ul> <li>define prolong pregnancy.</li> <li>correlate fetomaternal risks associated with prolong pregnancy.</li> <li>enlist indications and contraindications for iol.</li> <li>describe modified bishop scoring system.</li> <li>explain methods of iol.</li> <li>discuss complications of iol.</li> </ul>	C1 C2 C1 C2 C2 C2	LGIS	MCQS SAQ
Hypertension in pregnancy	Classify hypertensive disorders of pregnancy. Identify fetomaternal risks associated with hypertensive disorders of pregnancy. Explain the pathophysiology of hypertensive disorders of pregnancy. Discuss the clinical features of pre eclampsia and eclampsia. Enlist relevant investigations. Elaborate the principles of management of hypertensive disorders of pregnancy.	C2 C1 C2 C2 C1 C3	LGIS	MCQS SAQ
IUGR&oligohydramnios	Define fetal growth restriction.  •discuss the aetiology.  • explain the pathophysiology of iugr.  •discuss the antenatal surveillance of the fgr fetus.  •outline the management plan regarding timing and mode of delivery.  •elaborate the prognosis of fetus in iugr.	C1 C2 C2 C2 C2 C3 C1	LGIS	MCQS SAQ

Rh Incompatibility	Define rh incompatibility.  •discuss the etiology and pathophysiology of rhesus disease.  •enlist the potential sensitizing events for rhesus disease.  •explain the management of sensitizing events in rhesus negative pregnant woman.  •discuss prevention of rhesus isoimmunisation.  •enlist the fetal complications associated with rh incompatibility.  • elaborate the management of rhesus disease in a sensitized woman.	C1 C2 C1 C2 C2 C1 C3	LGIS	MCQS SAQ
Medical disorders in pregnancy	scenario based discussion on diagnosis and management of : •hypertension in pregnancy •diabetes in pregnancy • anemia and thrombocytopenia in pregnancy • cardiac disease in pregnancy.	C3/C4	LGIS	MCQS SAQ
Revisison of stages of labour and management			LGIS	

Intra-uterine Death	<ul> <li>define intrauterine fetal death.</li> <li>enumerate the causes of iufd.</li> </ul>	C1 C1	LGIS	MCQS
	<ul> <li>enlist the investigations to rule out causes of iufd.</li> <li>discuss the important points of counselling of parents in breaking the bad news.</li> <li>discuss the fetomaternal complications associated with iufd.</li> <li>elaborate management of patient with iufd.</li> </ul>	C1 C2 C2 C3		SAQ
Management of GTD	<ul> <li>define gestational trophoblastic disease.</li> <li>classify the different types of gtd.</li> <li>enumerate the clinical features of gtd.</li> <li>enlist important investigation to be done in gtd.</li> <li>discuss the management of gtd, its followup and contraceptive advice.</li> </ul>	C1 C2 C1 C1 C3	LGIS	MCQS SAQ
Physiology of Menstrual Cycle	Describe features of normal menstrual cycle.  •elaborate the ovarian and endometrial changes which occur during normal menstrual cycle.  •discuss the role of hpo axis in controlling the menstrual cycle.	C1 C2 C2	LGIS	MCQS SAQ
Management of STDs	Scenario based discussion on clinical features, diagnostic investigations, contact tracing and management of different std's. (chlamydia, trichomoniasis, gonorrhoea, hiv, syphilis, hepatitis b&c.	C3/C4	LGIS	MCQS SAQ
Management of benign & malignant disease of vulva & vagina	Name the common benign conditions of vulva and vagina. Identify their etiological factors.  Describe their clinical presentation. Enlist their diagnostic investigations.  Discuss the management options for each condition. Name the malignant conditions of vulva and vagina. Describe their clinical presentation.  Enlist their diagnostic investigations.  Discuss the management options for each condition.	C1 C1 C2 C1 C3 C1 C2 C1 C3	LGIS	MCQS SAQ
Management of premalignant & malignant disease of cervix	<ul> <li>define premalignant diseases of cervix.</li> <li>discuss the role of hpv testing in cervical screening programme.</li> <li>enlist the investigations for cervical screening of mass population.</li> <li>enumerate types of cin and their management options.</li> <li>discuss the pathogenesis of cervical ca.</li> <li>elaborate the figo staging of cervical cancer.</li> <li>discuss the management options according to the stage of disease.</li> </ul>	C1 C2 C1 C1 C2 C2 C2	LGIS	MCQS SAQ
Management of benign & malignant disease of uterus.	<ul> <li>enlist the common benign conditions of uterus according to their tissue of origin.</li> <li>discuss the clinical features of benign uterine conditions.</li> <li>describe the tests used to evaluate the uterine and endometrial pathology</li> <li>explain the available treatment options for uterine fibroids and the rationale for selection.</li> </ul>	C1 C2 C2 C3	LGIS	MCQS SAQ

	Classify malignant diseases of uterus.  • identify their etiology, risk and protective factors.  •discuss clinical presentation of malignant disease of uterus.  •describe the investigations needed for diagnosis and staging of uterine cancer.  •discuss figo staging of endometrial cancer.  •explain management, follow up amd five year survival rate of endometrial cancer.	C2 C1 C2 C2 C2 C2 C3		
Management of benign and malignant ovarian tumors	<ul> <li>enlist the types of malignant ovarian tumors.</li> <li>enumerate their risk factors.</li> <li>describe clinical features of the disease.</li> <li>explain the diagnostic criteria investigations and tumor markers of malignant ovarian tumor.</li> <li>discuss the figo staging of ovarian carcinoma.</li> <li>discuss management, follow up and 5 year survival of ovarian ca .</li> </ul>	C1 C1 C2 C2 C2 C2 C3	LGIS	MCQS SAQ
AUB & PMB				

## Community Medicine (LGIS)

S.No.	Topic	Contents Outlines (Major Topics & Sub- Topics)	<ul> <li>Learning Objectives (With Level Of Cognitive Learning)</li> <li>After The Session Students Will Be Able To:</li> </ul>	Level of cognition	Assessment Tools
1.	Reproductive Health and domiciliary services	Preventive medicine in obstetrics-I Maternal and child health care(MCH) Maternity cycle MCH problems Delivering MCH services Recent trends in MCH care	<ul> <li>Define and comprehend the rationale of different components of maternal and child health including</li> <li>Reproductive health &amp; its components</li> <li>Safe motherhood &amp; its components</li> <li>Maternal mortality rate, causes &amp; prevention</li> <li>infant mortality rate, causes &amp;</li> <li>Prevention MCH centre</li> <li>Child care- IMCI</li> <li>Infer the logic behind application of different preventive measures in various phases of life to improve the maternal health</li> <li>Appreciate the relationship between the maternal health status and the outcome of pregnancy</li> <li>Determine the factors that contribute to increase maternal mortality rate (MMR)</li> <li>Develop interventions to control MMR</li> <li>To understand the selection of different indicators for multi-dimensional concept of health related to MCH services</li> <li>To acquire knowledge on different indicators which can be used for maternal and child health care and service.</li> </ul>	C1 C2 C2 C3 C1 C2 C3 C1 C2 C3 C2 C3 C2 C3 C2 C3 C2	MCQS SEQS
2.	Preventive obstetrics	Preventive medicine in obstetrics-II Preventive services for mothers Indicators in MCH care	<ul> <li>Understand the availability of preventive services for mother during antenatal period</li> <li>appraise the mortality indicators related to MCH care</li> </ul>	C1 C2	MCQS SEQS
3.	Preventive obstetrics in Post natal period	Preventive medicine in obstetrics-III domiciliary care Institutional care Rooming in Post natal period and related complications	<ul> <li>Comprehend the concept of care required for the rapid restoration of the mother to optimum health</li> <li>Enlist the preventive strategies required to prevent complications during intra natal &amp; post-natal period.</li> <li>Appreciate the importance of health education for mother/family regarding intra natal &amp; postnatal complication</li> </ul>	C2 C2 C2 C1	MCQs SEQs

			Understand the relevance of family planning services provided during postnatal period		
4.	Preventive medicine in pediatrics	Preventive medicine in pediatrics-I Mortality in infancy and childhood Integrated Management of Childhood Illness (IMCI)	<ul> <li>Knowledge about concept of infant mortality</li> <li>Determine the factors which predispose to high infant mortality</li> <li>Appreciate the causes of infant mortality in different phases of child bearing and postnatal periods.</li> <li>Classify according to Integrated Management of Childhood Illness</li> <li>Classify degree of Pneumonia and ARI according to IMNCI</li> </ul>	C1 C2 C1 C1 C2	MCQs SEQ
5.	Preventive medicine in pediatrics growth & development	Preventive medicine in pediatrics-II Surveillance of growth & development Preventive measures to control infant and child mortality	<ul> <li>Able to record Weight the baby and measure the height of children</li> <li>Assess degree of dehydration</li> <li>Prepare home-made ORS</li> <li>interpret growth chart</li> <li>Suggest preventive measures at different levels of prevention and in different scenarios</li> <li>Understand the logic of measures taken to prevent infant and child mortality</li> </ul>	C3 C3 C3 C3 C3 C1	MCQs, SAQs,
6.	Demography and population trends	Definition Linkage of Demography with other disciplines Application of Demography within the health system Sources of population data Measures of Mortality Measures of fertility Population explosion	<ul> <li>Define demography and population dynamics</li> <li>Discuss linkage of demography with other disciplines</li> <li>Apply demographic concepts in health system.</li> <li>Discuss all major sources of population data with special emphasis on population Census</li> <li>Calculate different rates related to mortality from given data</li> <li>Calculate different rates related to fertility from given data</li> <li>Describe Demographic, economic, social and interdisciplinary implications of population explosion</li> </ul>	C1 C3 C3 C2 C3 C3	MCQS, SEQS ANI OSPE ANI VIVA VOCE
7		Demographic transition Demographic cycle Malthusian theory Population Momentum Demographic dividend, bonus, trap Growth Rate Population doubling time	<ul> <li>Discuss theory of demographic transition</li> <li>Describe and interpret stages of demographic cycle with examples and logical reasoning</li> <li>Graphically illustrate the stages of demographic cycle</li> <li>Explain limitations of this model</li> <li>Discuss Malthusian theory of population growth</li> <li>Explain population momentum</li> <li>Describe the effect of population momentum on growth</li> </ul>	C2 C2 C2 C2 C2 C3 C3	MCQS, SEQS ANI OSPE ANI VIVA VOCE

		<ul> <li>Discuss demographic dividend, bonus, trap</li> <li>Calculate growth rate from given data</li> <li>Calculate and interpret population doubling time</li> </ul>	C3 C3 C3	
8.	Population dynamics or change Migration and urbanization Population density Family size Replacement level fertility Life expectancy	<ul> <li>Discuss concept of demographic equation</li> <li>Calculate population at a particular time from the given data</li> <li>Calculate population in future from given data</li> <li>Discuss push and pull factors associated with migration.</li> <li>Describe various measures of migration.</li> <li>Discuss implications of urbanization</li> <li>Explain types of migration and associated measures</li> <li>Define population density</li> <li>Explain family size and factors associated with it</li> <li>Explain replacement level fertility</li> <li>State what is meant by life expectancy and how it is calculated</li> </ul>	C1 C3 C3 C2 C1 C2 C1 C2 C3	MCQs, SEQs and OSPE and Viva Voce
9.	functions of school health services health related problems of school children implementation strategies of school health services	<ul> <li>Define School health services</li> <li>Enlist objectives of School Health Services.</li> <li>Explain duties of School Health Team.</li> <li>Enlist various health related problems of School children.</li> <li>Enumerate and explain various functions of School health services.</li> <li>Demonstrate importance of implementation of various aspects of school health services.</li> </ul>	C1 C1 C2 C2 C2 C2	MCQs, SEQs and OSPE
10.	1. definition 2. difference between handicapped, impairment, disability 3. types of disability 4. rehabilitation	<ul> <li>Define handicapped</li> <li>Define impairment and disability</li> <li>Differentiate between handicapped, impairment and disability with examples</li> <li>Enlist types of disability and causes of disability</li> <li>Define rehabilitation, enlist types of rehabilitation and objectives of rehabilitation</li> <li>Integrated approach towards handicapped and prevention of disability</li> <li>Social attitude towards handicapped</li> </ul>	C1 C1 C2 C1 C2 C2 C2 C2	MCQ'S SAQ
11.	1. Concept and definitions	<ul><li>Define economics, health economics</li><li>Explain</li></ul>	C1 C2	MCQ'S SAQ

12.		Production possibility frontier     Different types of Costs     Framework of health economics     Supply and demand     Heasticity	<ul> <li>Macroeconomics</li> <li>Microeconomics         <ul> <li>Positive economics</li> <li>Normative Economics</li> </ul> </li> <li>Describe framework of health economics</li> <li>Explain law of demand and law of supply</li> <li>Describe elasticity</li> <li>Describe Production possibility frontier</li> <li>Explain Different types of Costs</li> <li>Explain</li> </ul>	C3 C2 C3 C1 C1 C1 C1 C3	MCQ'S SAQ
12	Dublic beauth	3. Structures of Economic Evaluation	<ul> <li>Cost minimization analysis</li> <li>Cost effectiveness analysis</li> <li>Cost utility analysis</li> <li>Cost Benefit analysis</li> </ul>	C3	MCOIS
13.	Public health on global scale	World Health Organization United Nations International Children's Emergency Fund (UNICEF)	<ul> <li>Describe history, constitution and objectives of WHO</li> <li>State WHO regions</li> <li>Explain organizational structure of WHO with functions of each</li> <li>Describe history, mission and milestones of UNICEF</li> <li>5. Enlist important NGOS of Pakistan</li> </ul>	C1 C1 C1 C1 C1	MCQ'S SAQ
14.		Health aspects of family planning Welfare concept Small family norms Eligible couples Couple protection rate	<ul> <li>To identify the need and requirements for an informed decision-making process on contraceptive choice</li> <li>To characterize the principles of reproductive rights and gender issues related to family planning</li> <li>identify the scope of family planning</li> <li>appreciate health aspects of family planning</li> <li>understand the terms of small family norms and eligible couples &amp; target couples</li> </ul>	C2 C2 C1 C3 C1	MCQs, SEQs and OSPE
			6. calculate the couple Protection rate of a given population	C3	
15.		National population policy Unmet need of family planning Classification of Fertility regulating methods	<ul> <li>Explain national population policy</li> <li>understand the concept of unmet need of family planning</li> <li>Classify fertility regulating method</li> </ul>	C2 C2 C2 C1	MCQs, SEQs and OSPE
		Barrier methods Natural contraceptive methods Terminal methods	<ul> <li>comprehend barrier method</li> <li>classify natural methods of fertility control</li> </ul>	C2 C2	

	1				
			explain sterilization and its complication		
16.		Advantages of breast feeding Weaning practices	Procure knowledge about advantages & disadvantages of types of feeding practices.	C1	MCQS, SEQS AND OSPE AND
		Feeding associated problems	<ul> <li>Acquire knowledge of the hazards associated with feeding of the child.</li> </ul>	C1 C2	VIVA VOCE
		Baby friendly hospital initiative (BFHI)	<ul> <li>Appreciate the logic behind the conditions of concern prevailing in the mother during breast feeding.</li> </ul>	C2	
			<ul> <li>Identify, the problems associated with feeding and the measures to rectify.</li> </ul>	C1	
			Educate mothers about the steps of weaning	C1	
			<ul> <li>Educate the mothers about technique of breast feeding and to advice to Tuberculous mother about lactation</li> <li>Determine the conditions of concern prevailing in the mother during breast feeding</li> </ul>	C1	
			Understand BFHI	C1	
17.	Genetics	Preventive and social measures of genetic	Acquire knowledge about human genetics, genotype, phenotype	C1	MCQS & SEQS
		diseases and genetic	Classify genetic diseases	C2	
		counselling	<ul> <li>Describe Preventive and social measures of genetic diseases</li> </ul>	C3	
			Define euthenics	C1	
			Explain importance of Genetic counselling	C3	

## Pharmacology (LGIS)

LGIS						
Topic	Learning Objectives	Learning	Teaching strategy	Assessment tool		
D. I.		Domains	1 010	gr.o		
Prolactin antagonist	<ul> <li>Enumerate Prolactin Antagonists</li> </ul>	C1	LGIS	SEQ		
	<ul> <li>Describe Mechanism of Action, Uses as well as adverse</li> </ul>	C2		MCQ		
	effects of Prolaction			VIVA		
	Antagonists					
Gonadal hormones: I	<ul> <li>Enumerate Estrogen antagonists/SERMs</li> </ul>	C1	LGIS	SEQ		
Estrogens	<ul> <li>Describe mechanism of action, uses &amp; adverse effects of</li> </ul>	C2		MCQ		
	Estrogen			VIVA		
	antagonists/SERMs					
Gonadal hormones :II	• Describe mechanism of action, uses & adverse effects of	C2	LGIS	SEQ		
Progestin	Progesterone antagonists			MCQ		
C 1.11 III		C1	1 010	VIVA		
Gonadal hormones:III	Enumerate androgen preparations	C1	LGIS	SEQ		
Anabolic	Describe uses & adverse effects of androgen	C2		MCQ VIVA		
	preparations	C2		VIVA		
	Discuss Pharmacokinetic and Pharmacodynamics of	C2				
TT 1	Anti-androgens	C1	I CIG	areo.		
Hormonal	<ul> <li>Classify hormonal Contraceptives</li> </ul>	C1 C2	LGIS	SEQ		
contraceptives	<ul> <li>Discuss the mechanism of action of hormonal</li> </ul>	C2		MCQ VIVA		
	contraceptives	CO		VIVA		
	Discuss the adverse effects and contraindications	C2		7-0		
Oxytocic drugs and	Describe actions of oxytocin	C2	LGIS	SEQ		
Uterine Relaxants	Describe uses and adverse effects of oxytocin	C2		MCQ		
	Elaborate clinical uses of prostaglandin	C3		VIVA		
	Enlist ergot alkaloids, their uses and adverse effects	C1				
	Classify Tocolytics	C1				
	<ul> <li>Describe the pharmacodynamics of tocolytic agents</li> </ul>	C2				
	<ul> <li>Discuss their uses &amp; adverse effects</li> </ul>	C2				
Drug used in the	Enlist drugs used for treatment of Infertility	C1	LGIS	SEQ		
treatment of infertility	<ul> <li>Discuss Pharmacokinetics and Pharmacodynamics</li> </ul>	C2		MCQ		
	<ul> <li>Discuss adverse effects and interactions</li> </ul>	C2		VIVA		

## PATHOLOGY (LGIS)

TOPIC	Contents Outlines (Major Topics & Sub- Topics)	<ul> <li>Describe Etiology and morphology of Acute and Chronic Cervicitis (C2)</li> </ul>	Lear ning dom ain	Teach ing strate gy	Assess ment tool
Malignant diseases of cervix.	<ul> <li>Cervical     Intraepitheli     al     Neoplasia</li> <li>Cervical     Carcinomas     .</li> </ul>	<ul> <li>Interpret morphological diagnosis of Cervical intraepithelial Neoplasia.</li> <li>Classify Cervical Carcinomas</li> <li>Describe Morphological features and prognosis of cervical cancer.</li> </ul>	C3 C2 C2	LGIS	MCQs, SEQs, OSPE Viva
Benign Diseases of Uterus	Endometrial hyperplasia and epithelial neoplastic lesions	<ul> <li>Enlist causes of endometrial hyperplasia and carcinoma.         Evaluate morphological features of Endometrial Hyperplasia.     </li> <li>Describe classification, genetic pathogenesis and morphology of</li> </ul>	C1 C3 C2	LGIS	MCQs, SEQs, OSPE Viva

		Malignant Tumors of the Endometrium			
Benign diseases of ovary	Classification of ovarian Cystic neoplasm and Polycystic ovarian syndrome	<ul> <li>Categorize nonneoplastic and functional ovarian cysts</li> <li>Describe Pathogenesis of polycystic ovarian syndrome</li> <li>Interpret morphological diagnosis of endomertriotic cyst</li> </ul>	C2 C2 C3	LGIS	MCQ SEQ VIVA
Malignant diseases of Ovary.	Ovarian tumors	<ul> <li>Classify ovarian tumours.</li> <li>Describe pathogenesis morphological features and prognosis of surface epithelial ovarian tumours</li> <li>Interpret morphological diagnosis of ovarian tumors</li> <li>Differentiate between pathogenesis and histopathological features of various Germ cell and sex cord stromal ovarian tumour</li> <li>Describe Prognosis and staging of ovarian tumours</li> <li>Enumerate Diagnostic work up for ovarian tumours</li> </ul>	C2 C2 C3 C3 C2	LGIS	MCQ SEQ VIVA
Benign neoplasm of breast	Non neoplastic lesions of breast -	The students should be able to 1)identify the congenital anomalies of breast	C1	LGIS	MCQ SEQ

	congenital anomalies. inflammatory lesion of breast. duct ectasia, fat necrosis and granulomatous mastitis.	2) Classify and describe the inklammatory lesions of breast 3) explain duct ectasia fat necrosis and granulomatous mastitis	C2 C2		VIVA
Benign neoplasm of breast	Benign neoplastic lesions of breast Proliferative epithelial lesions without atypia and Proliferative epithelial lesions with atypia. fibrocystic breast disease breast stromal lesions.	The students should be able to  1) Compare proliferative lesions with and without atypia  2) Describe the morpohology and pathophysiology of fibrocystic disease and stromal lesions of breast	C2	LGIS	MCQ SEQ VIVA
Malignant neoplasm of breast	Malignant lesions of breast Classification of epitheial and stromal malignant lesions • invasive mammary	The students Should be able to  1) Classify the neoplasms of breast 2) explain the histology, grading, staging, lab diagnosis of breast cancer	C2 C2	LGIS	MCQ SEQ VIVA

	carcinoma (NOS)  Familial Breast Cancer, with molecular Mechanism s of Carcinogen esis and Tumor Progression				
	Testicular Tumors	-The students should be able to		LGIS	SEQ/
		1)Classify different testicular tumors	C2		MCQ
Testicular tumors		2)explain Clinical Presentation ,Morphological findings ,Staging and Lab Diagnosis of testicular tumors	C2		

## SURGERY (LGIS)

		LGIS		
Pelvic cellulitis& abscess	Describe brief anatomy of pelvis and its structure  2. Enumerate possible causes of pelvic infusion in both male and female Patients  3. Enlist important clinical, signs and symptoms  4. Discuss the role of different investigation and differential diagnoses  5. Describe management plan for these patients	LGIS	C2/C3	MCQS
Complication of laparotomy (visceral & vascular injury)	Briefly describe anatomy of the abdominal wall and its visceral and vascular Structures 2. Enlist commonly performed elective + emergency laprotomy 3. Enumerate vulnerable vascular and visceral structures at risk of complication During laprotomy 4. Identify signs and symptoms to recognize these injuries 5. Make management plan to deal with these injuries, the role of multiple Specialities and team work in management of these complications.	LGIS	C2/C3	MCQS

## PAEDIATRICS (LGIS)

LGIS				
Neonatal resuscitation	<ul> <li>Identify the babies who will need resuscitation at birth</li> <li>Enlist steps of resuscitation as per algorithm</li> <li>Identify different sizes of face masks, ambu bags, laryngoscope blades and their use by pictures .</li> </ul>	LGIS	C2/C3	MCQS
Breast feeding	<ul> <li>Enumerate advantages of breast feeding</li> <li>Describe the physiology</li> <li>Know the importance of early initiation of breast feeding</li> <li>Enlist five steps towards good breast feeding</li> </ul>	LGIS	C2/C3	MCQS
LBW / prematurity	Define lbw babies Enlist common causes of lbw babies Enumerate important complications and problems of premature babies Manage prematurity and its complications	LGIS	C2/C3	MCQS
Immunization	<ul> <li>Know the importance of vaccination in prevention</li> <li>Know the disease covered in immunization schedule</li> <li>Know the extended program of immunization(epi) in pakistan</li> <li>Know the role of immunization in health of a child</li> <li>Know the method of administration and commom side effects of vaccines used in epi</li> </ul>	LGIS	C2/C3	MCQS

Neonatal seizures	<ul> <li>Define neonatal seizures</li> <li>Enlist common causes of neonatal seizures</li> <li>Describe clinical types</li> <li>Plan pertinent investigations, interpret and take appropriate action</li> <li>Manage according to the cause Plan follow up</li> </ul>	LGIS	C2/C3	MCQS
IDM	Know the clinical manifestations of IDM Do immediate monitoring of IDM Identify important complications Plan pertinent investigations, interpret and take appropriate action Manage IDM and its complications	LGIS	C2/C3	MCQS
Neonatal jaundice	<ul> <li>Enlist common causes of unconjugated and</li></ul>	LGIS	C2/C3	MCQS

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## MEDICINE (LGIS)

Infections in pregnancy (rti's, git, eye/ent, Dermatitis)	At the end of lecture, students will be able to:  A) enlist common infections which occur more frequently in pregnancy and risk factors for these infections  B) know obstetric complications of infections  C) treatment of infections in pregnancy and during breastfeeding	LGIS/PPT/ CASE VIGNETTE	C3/A3
Diabetes in pregnancy	At the end of lecture, students will be able to:  A) recall etiology, pathophysiology of gestational diabetes mellitus  B) explain risk factors, clinical features and investigations to confirm diagnosis  C) construct management plan of each disorder and discuss complications of these conditions for both fetus and mother	LGIS/PPT/ Case vignette	C3/A3
Anaemia in pregnancy	At the end of lecture, students will be able to:  A) recall etiology, pathophysiology and common types of anemia in pregnancy B) explain risk factors for anemia, clinical features and investigations to confirm diagnosis C) construct management plan including prevention and discuss complications of anemia for both fetus and mother	LGIS/PPT/ CASE VIGNETTE	C3/A3
Liver disorders & thrombocytopeni a in pregnancy	At the end of lecture, students will be able to:  A) discuss etiologies and risk factors for common thrombotic disoders in pregnancy  B) explain clinical features and investigations to confirm thrombotic disorders in pregnancy  and post partum period	LGIS/PPT/ CASE VIGNETTE	C3/A3

	C) discuss appropriate anticoagulation therapy in pregnancy and breastfeeding		
Epilepsy in pregnancy	At the end of lecture, students will be able to:  A) explain how does epilepsy effects pregnancy	LGIS/PPT/	C3/A3
	B) know antieplieptics drugs which are safe in pregnancy and breastfeeding     C) construct management plan and discuss complications of epilepsy for both fetus and	VIGNETTE	
	Mother		
Asthma in pregnancy	At the end of lecture, students will be able to:	LGIS/PPT/	C3/A3
	<ul><li>A) explain the effects of pregnancy on asthma</li><li>B) explain risk factors, clinical features and investigations to confirm diagnosis</li><li>C) discuss treatment plan and appropriate medication to control asthma in pregnancy</li></ul>	CASE VIGNETTE	
Thrombotic disorders in pregnancy	At the end of lecture, students will be able to:  A) explain etiologies and prevalence of thrmbocytopenia in pregnancy  B) management of delivery in thrombocytopenia keeping in mind both maternal and neonatal considerations  C) brief overview of liver diseases during pregnancy and their management individually	LGIS/PPT/	C3/A3

### OBS/GYNAE(SGD)

Scenario based sgd ( mechanism of fetal	<ul> <li>pictorial demonstration of mechanism of normal labour.</li> <li>pictorial demonstration of delivery of placenta.</li> </ul>	C3 C3	CCD	OCCE
delivery &delivery of placenta)	• scenario based discussion of management of abnormal labor.	C3/C4	SGD	OSCE
Malpresentation	<ul> <li>define malpresentations and its different types(breech,face,brow,shoulder,cord presentation)</li> <li>discuss the antenatal management of breech presentation.</li> <li>pictorial demonstration of external cephalic version.</li> <li>outline the management plan including mode of delivery.</li> <li>enlist the prerequisites for breech vaginal delivery.</li> <li>discuss the management of breech in labour.</li> </ul>	C1	LGIS/SGD	MCS SAQ OSCE
Covid-19 in pregnancy and immunization	<ul> <li>discuss guidelines of covid 19 in pregnancy.</li> <li>scenario based discussion regarding management of covid-19 in pregnancy according to disease severity.</li> <li>discuss guidelines of dengue in pregnancy.</li> </ul>	C2 C3/C4 C2	Scenario Based Discussion	MCQ SAQ
Dengue and HIV in pregnancy	<ul> <li>scenario based discussion regarding management of dengue in pregnancy.</li> <li>discuss guidelines of HIV in pregnancy.</li> <li>scenario based discussion regarding management hiv in pregnancy.</li> </ul>	C3/C4 C2 C3/C4	Scenario Based Discussion	MCQS SAQ

# Community Medicine(SGD)

S.No.		Content Outlines(Major Topics & Sub Topics)	Learning Objectives	Level of cognition
1.	Evaluation of Family Planning methods	Intra uterine devices Hormonal contraceptives Postconceptional methods  Evaluation of contraceptive methods	<ul> <li>characterize the following contraceptive methods based on mechanism of action, indicators of effectiveness, side effects, non-contraceptive benefits, eligibility criteria and interventions for certain problems during use:</li> <li>Combined oral contraceptives</li> <li>Progestin only pills</li> <li>Injectable contraceptives</li> <li>Hormonal implants</li> <li>Tubal ligation and vasectomy</li> <li>Intrauterine contraceptive devices</li> <li>Emergency contraception</li> <li>New contraceptive technology</li> <li>Identify the methods for family planning evaluation</li> </ul>	C1 C1 C1 C1 C1 C1 C1 C1 C1
2.	Demographic transitions	Population pyramids Dependency ratio Age-sex composition	<ul> <li>Explain population pyramid</li> <li>Read and interpret a population pyramid</li> <li>Identify and interpret population pyramids in different stages of growth</li> <li>Identify and interpret different types of population pyramids with respect to shape</li> <li>Explain any asymmetry in shape</li> <li>Identify baby boom in population pyramid</li> <li>State importance of population pyramids</li> <li>Calculate and interpret dependency ratio</li> </ul>	C1 C2 C1 C1 C1 C3 C1 C3 C2 C3

•	of a population	

# PHARMACOLOGY (SGD)

	PRACTICAL				
PK Calculations I	<ul><li>Calculation for loading dose</li><li>Calculation for maintenance dose</li></ul>	P	Practical	OSPE	
PK Calculations II	PK Calculations II  Calculations for maintenance dose Calculations for plasma half-life & steady state concentration		Practical	OSPE	
P drug & Prescription writing  • P drug & prescription writing for infertility • P drug & prescription writing for premature labour		P	Practical	OSPE	
	CBL				
Hormonal Contraceptives	<ul> <li>Clinical pharmacology of hormonal contraceptives</li> <li>Rationale of choosing specific hormonal contraceptive in a specific scenario</li> </ul>	C3	CBL	PBQ	
Oxytocic and uterine relaxants	<ul> <li>Clinical pharmacology of Oxytocic drugs &amp;         Uterine relaxants</li> <li>Rationale of choosing specific agents in specific scenerios</li> </ul>	C3	CBL	PBQ	

### PATHOLOGY (SGD)

S.No.		Content Outlines(Major Topics & Sub Topics)	Learning Objectives	Level of cognition	
1.	Pathology of early pregnancy complications & Non neoplastic placental pathology			C3 C3 C2	MCQs, SEQs, OSPE Viva
2.	GTD &, Choriocarcinom a	Gestational trophoblastic diseases and choriocarcinoma	Explain Pathological features, diagnosis and followup of Gestational Trophoblastic Disease. Enlist difference between complete and partial mole  Describe incidence and pathological features of Choriocarcinoma	C2 C1 C2	MCQ,SEQ,VIVA
3.	Dysfunctional uterine bleeding	Dysfunctional uterine bleeding	Describe causes and pathogenesis of Functional Endometrial Disorders (Dysfunctional Uterine Bleeding) and Inflammatory Disorders.	C2	MCQ,SEQ,VIVA

			Interpret diagnosis via morphological features of endometriosis and Adenomyosis & Endometrial Polyps		
4.	Beningn and Premalignant Lesions of Cervix		Describe Etiology and morphology of Acute and Chronic Cervicitis	C2	MCQS,SEQ,VIVA
			Categorize Endocervical Polyps and Metaplasias	C2	
			Describe risk factors etiology pathogenesis of	C2	
5.	BPH, prostatic cancer, testicular atrophy, seminoma	BPH, prostatic cancer, testicular atrophy, seminoma	Describe Etiology and morphology of BPH, prostatic cancer, testicular atrophy, seminoma Enumerate investigations for investigations	C2	MCQS, SEQ, VIVA

# Self-Directed Learning (SDL) Gynae/Obs

Sr. No	Content Outlines(Major Topics & Sub Topics)	Learning Objectives	Learning Resource	Assessment tool
1.	Renal Disease in Pregnancy	Discuss the Effect of pregnancy on CKD Explain the Effect of CKD on pregnancy outcome Enlist fetomaternal complications associated with dialysis Discuss the fetomaternal outcome of Pregnancy in women with renal transplants.	Obstetrics by Ten Teachers (20 <sup>th</sup> edition)  Page 148	MCQs
2.	Heart Disease in Pregnancy	Discuss Pre-pregnancy counseling of heart disease in pregnancy.  Elaborate antenatal management of heart disease in pregnancy.  Discuss management of labour and delivery in patients with heart disease in pregnancy  Discuss the treatment of heart failure in pregnancy	Obstetrics by Ten Teachers (20 <sup>th</sup> edition)  Page 155	MCQs
3.	Respiratory Disease in Pregnancy Asthma in pregnancy	At the end of lecture, students will be able to:  A) explain the effects of pregnancy on asthma  B) explain risk factors, clinical features and investigations to confirm diagnosis C) discuss treatment plan and appropriate medication to control asthma in pregnancy	Obstetrics by Ten Teachers (20 <sup>th</sup> edition)  Page 158	MCQs
4.	Neurological Disease in Pregnancy Epilepsy	At the end of lecture, students will be able to:  A) explain how does epilepsy effects pregnancy  B) Enlist antieplieptics drugs which are safe in pregnancy and breastfeeding	Obstetrics by Ten Teachers (20 <sup>th</sup> edition)  Page 160	MCQs

5.	Haematological Abnormalities Thrombotic disorders in pregnancy	C) Devise management plan and discuss complications of epilepsy for both fetus and the mother  At the end of the lecture, students will be able to:  A) explain etiologies and prevalence of thrombocytopenia in pregnancy  B) management of delivery in thrombocytopenia, keeping in mind both maternal and neonatal considerations  C) brief overview of liver diseases during pregnancy and their management individually	Obstetrics by Ten Teachers (20 <sup>th</sup> edition) Page 162	MCQs
6.	Covid-19 in Pregnancy and Immunization	discuss guidelines of covid 19 in pregnancy and dengue in pregnancy.	WHO guidelines of Covid-19 in pregnancy	MCQs
7.	HIV in Pregnancy	<ul> <li>discuss guidelines of HIV in pregnancy.</li> <li>discussion regarding the management of HIV in pregnancy.</li> </ul>	Obstetrics by Ten Teachers (20 <sup>th</sup> edition) Page 184	MCQs

# Self Directed Learning (SDL) Community Medicine

#	Major topic	Contents Outlines / Sub- Topics	Learning objectives. Students will be able to	Learning resource	Assessment tool -MCQs
1	Child Abuse	Child abuse Street children Child trafficking Child labor Child marriage	To comprehend definitions, causes and preventive approaches.  • to child, abuse as trafficking,  • child labor  • child marriage		2-3MCQ
2	Population medicine	Pakistan demographic surveys National demographic database (NADRA) Population pyramid	To comprehend demographic information sources, methods and national demographic database.     Explain population graphic presentation / Pyramid	Ilyas & Ansari Pages 178- 184	2-3MCQs
3	Population medicine	National population control strategy & policy (Pakistan)	Explain element of national pop cont strategy	<ul> <li>Practical Journal of Com-Med Annexure III.</li> <li><a href="https://pwd.punjab.gov.pk/">https://pwd.punjab.gov.pk/</a></li> <li><a href="https://www.pc.gov.pk/uploads/">https://www.pc.gov.pk/uploads/</a></li> <li><a href="plans/Ch4-Population2.pdf">plans/Ch4-Population2.pdf</a></li> </ul>	2-3 MCQs
4	Reproductive health	Preventive aspects of neonatal health.  Elements of early neonatal care	Students should be able to: Describe.  • early neonatal care  • Immediate neonatal care  • Early neonatal examination  • Neonatal screening	K Park Ed. 27 <sup>th</sup> (532-535	3 MCQs
5	Child Health in context of MCH Services	Monitoring of child growth & development	Students should be able to  Describe determinants of child growth & development  Describe methods assessment of physical growth of child  Explain formation of growth chart.	K Park Ed. 27 <sup>th</sup> (541,42,43,44, -	3MCQs

# Self Directed Learning (SDL) Pharmacology

Sr. No.	Topic	Learning objectives	Reference
1.	Pharmacological management of dysmenorrhea	<ul> <li>Recall the pathophysiology of dysmenorrhea</li> <li>Enlist short and long term management strategies of dysmenorrhea</li> <li>Discuss the salient pharmacological feature of different strategies</li> </ul>	<ul> <li>Mittal R. Medical management of Dysmenorrhea. International Journal of Advance Research, Ideas and Innovations in Technology. 2019;5(1).</li> <li>Harel Z. Dysmenorrhea in adolescents and young adults: an update on pharmacological treatments and management strategies. Expert opinion on pharmacotherapy. 2012 Oct 1;13(15):2157-70.</li> </ul>
2.	Novel endocrine therapies for hormone positive breast cancer	<ul> <li>Enumerate hormonal treatments of breast cancer</li> <li>Discuss the mechanism of action of SERM and SERD in breast cancer</li> <li>Give new therapies acting via nuclear estrogen receptors in breast cancer</li> </ul>	Lloyd MR, Wander SA, Hamilton E, Razavi P, Bardia A. Next-generation selective estrogen receptor degraders and other novel endocrine therapies for management of metastatic hormone receptor-positive breast cancer: current and emerging role. Therapeutic Advances in Medical Oncology. 2022;14. doi:10.1177/17588359221113694
3.	Use and abuse of anabolic steroids	<ul> <li>Differentiate between androgens and anabolic steroids</li> <li>Discuss the clinical application of anabolic steroids</li> <li>Give the organ effects of anabolic effects</li> <li>Identify the health consequences of abuse of anabolic steroids</li> </ul>	Gagliano-Jucá T, Basaria S. Abuse of anabolic steroids: A dangerous indulgence. Current Opinion in Endocrine and Metabolic Research. 2019 Dec 1;9:96-101.
4.	Hormonal therapy for prostate cancer (GnRH antagonist VS ADT)	<ul> <li>Identify different agents used in prostate cancer</li> <li>Recognize the role of different hormone receptors in prostate cancer</li> </ul>	Rice MA, Malhotra SV, Stoyanova T.     Second-generation antiandrogens: from discovery to standard of care in castration resistant prostate cancer. Frontiers in oncology. 2019 Aug 28;9:801.

# Self Directed Learning (SDL) PATHOLOGY

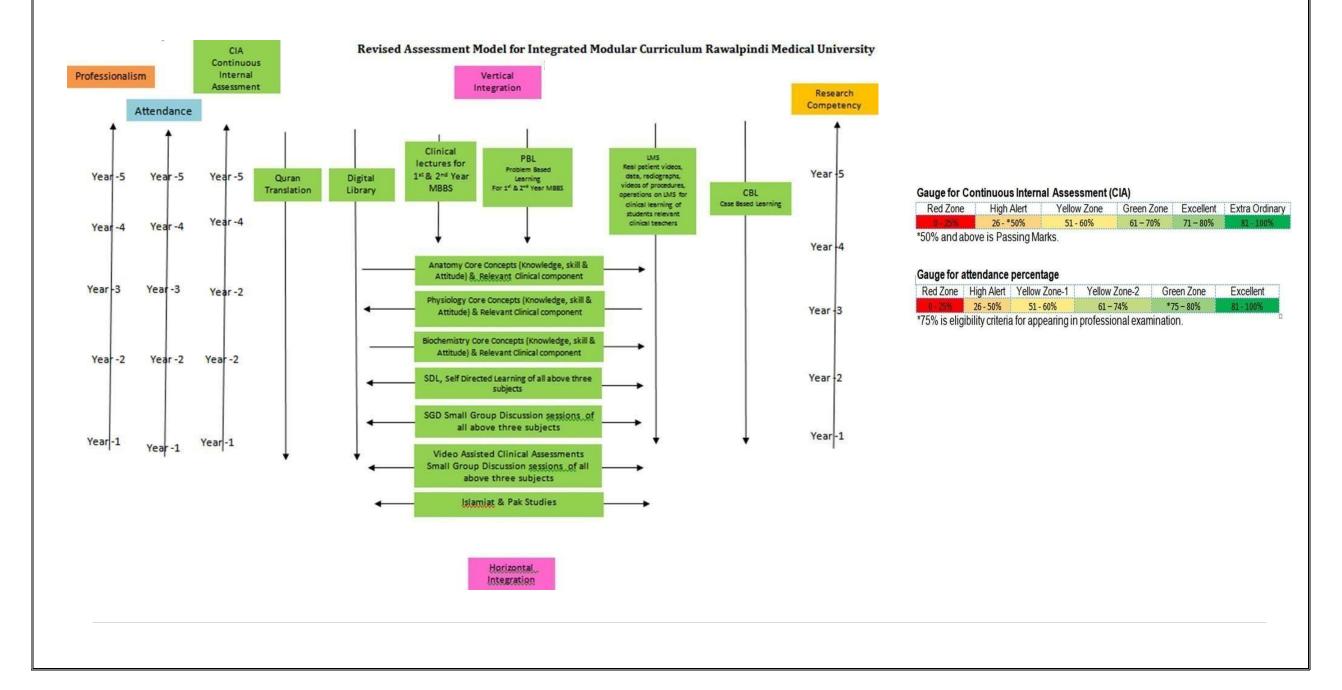
R. NO	TOPIC	LEARNING OUTCOMES At the end of session students will be able to:	REFERENCE
1	Diseases of Penis	<ul> <li>Abnormalities         /Malformations of Penis</li> <li>Describe briefly about inflammatory diseases of Penis</li> <li>Explain Neoplastic lesion of Penis</li> </ul>	Robbins Basic Pathology 9 <sup>th</sup> Edition  Chapter 17 Male Genital System  Pg 658-659
2	prostatitis	<ul> <li>Categorize different types of prostatitis</li> <li>Explain etiology</li> <li>clinically presentation of prostatitis</li> <li>diagnosis of prostitis</li> </ul>	Robbins Basic Pathology 9 <sup>th</sup> Edition  Chapter 17 Male Genital System

			Pg 663-664
3	Fibrocystic changes of Breast	<ul> <li>explain fibrocystic changes of breast</li> <li>explain briefly types of changes</li> <li>describe the morphology</li> <li>how the fibrocystic changes are related to breast carcnomas</li> </ul>	Robbins Basic Pathology 9 <sup>th</sup> Edition  Chapter 17 Female Genital System
			Pg 705-707
4	Polycystic ovarian disease	Define PCOD What are cinical presentation of PCOD Investigation of pcod Morphological changes of PCOD	Robbins Basic Pathology 9 <sup>th</sup> Edition  Chapter 17 Female Genital System  Pg 695 - 696
5	Disorders of uterus	Define Endometriosis Etiology and clinical features of endometeriosis Morphology of endometriosis Describe adenomyosis	Robbins Basic Pathology 9 <sup>th</sup> Edition  Chapter 17 Female Genital System  Pg 689 - 690

# **SECTION III** Basic And Clinical Sciences (Vertical Integration) Content • Anatomy Physiology Surgery and Allied Medicine and Allied Basic And Clinical Sciences (Horizontal integration) Content Community medicine Pharmacology • Pathology

# **Assessment Policies** Contents Assessment plan Types of Assessment: Modular Examinations **Block Examination** Table 4: Assessment Frequency & Time in Population medicine and reproduction Module

#### **Assessment Policies**



#### Assessment plan

University has followed the guidelines of Pakistan Medical and Dental Council for assessment. Assessment is conducted for SDL, SGD, mid modular, block/module levels.

#### Types of Assessment:

The assessment is formative and summative.

Formative Assessment

Formative assessment is taken from topics of SDL on LMS and MS team

Summative Assessment:

Summative assessment is taken at the mid modular, modular/block levels.

#### **Modular Examinations**

Theory Paper

There is a module examination at the end of module. The content of the whole teaching of the module are tested in this examination. It consists of paper with objective type questions and structured essay questions. The distribution of the questions is based on the Table of Specifications of the module. (Annexure I attached)

#### **Block Examination**

On completion of a block which consists of two modules, there is a block examination which consists of one theory paper and OSPE.

Theory Paper

There is one written paper for each subject. The paper consists of objective type questions (MCQ) and structured essay questions (SAQ). The distribution of the questions is based onthe Table of Specifications of the module.

#### **Block OSPE/OSCE**

This covers the practical content of whole block.

#### ASSESSMENT PLAN

#### Types of Assessment:

- 1. Formative
- 2. summative

#### Formative Assessment

Formative assessment will be done at the mid of module of SDL and SGD through LMS at end of 3rd week. Assessment of clinical lectures on LMS. Tool for this assessment will be one bestchoice question.

#### Summative Assessment:

Summative assessment will be taken at the end of module, block and will be subject wise.

#### MID MODULE EXAM

It will be taken at the end of 3<sup>rd</sup> week of module. Theory Paper (50 MCQS) 50 marks based on table of specifications (TOS).

#### **BLOCK EXAMINATION**

On completion of a block which consists of reproduction + modules, there will be a block examination which consists of one theory paper of each subject and OSPE of ( COMMUNITY MEDICINE, PHARMACOLOGY, PATHOLOGY).

The paper will be of objective type questions and short answer questions. The distribution of the questions will based on the Table of Specifications of the module. OSPE;

This will cover the practical content of whole block.

# Schedule of Assessment REPRODUCTION MODULE/BLOCK

S. No	Mode of Assessment	Type of Assessment	Schedule of Assessment	Remarks	Remarks	Colander schedule
1 <sup>st</sup>	One best option MCQs test	CIA	Mid module at the end of 03 weeks	LMS	Credit will be part of IA	2023
2 <sup>nd</sup>	MCQ, SAQs, based examination	CIA	End of module /block exam	On campus test	Credit will be part of IA	2023
3 <sup>rd</sup>	OSPE	CIA	End of module /block exam	On campus test	Credit will be part of IA	2023

# Assessment Frequency & Time In Reproduction Module

Block		Reproduction Module	Type of Assessments	Total Assessments Time	
	Sr#	Reproduction Module Components		Assessment Time	
	1	Mid Module Examinations (50 marks ,50 MCQs)	Formative	50 Minutes	
Reproduction Block	2	Topics of SDL and SGD Examination on LMS and MS Team 10 MCQS every Tuesday ( for 7 weeks )	Formative	30 Minutes	
Repr	3	End Module Examinations (10 SAQS & 100 MCQs)	Summative	120 Minutes	
	4	OSPE ( Community medicine, Pharma, Patho)	Summative		
	5	Ward test at the end of 4 weeks 10 SAQS, 50 MCQS	Formative	90 Minutes	

# Table of Specification (TOS)

# MID MODULE ASSESSMENT Fourth Year MBBS 2023 15<sup>th</sup> AUGUST 2023

Sr. #	Discipline	No. of MCQs	No. of M	CQs acc		Total
			C1	C2	C3	
1.	Obs/Gynae	10	01	02	07	
2.	Pharmacology	05	01	03	01	
3.	Pathology	05	01	03	01	
4.	Community Medicine	05	01	03	01	
5.	Surgery	02			02	
6.	Paediatrics	03		01	02	

# END OF BLOCK / MODULE ASSESSMENT Fourth Year MBBS 11 SEPTEMBER 2023

03			No. of I	MCQs		No.	of	No.	of SAQ	S			
	Discipline	No. of MCQs(		ccording to			SAQs (%)		accordin	ng to ve domain	Total	OSPE	VIV A
		%)	C1	C2	C3	No. of items	Mark s	C1	C2	C 3			
1.	Obs/Gynae	30	03	07	20	02	10			02			
2.	Community `Medicine	15	03	05	07	02	10			02		20	20
3.	Pharmacology	10	03	03	04	05	25			05			20
4.	Pathology	25				05	25			05		30	20
5.	Surgery	05	01	01	03	01	05			01			
6.	Paediatrics	10	01	03	06	01	05			01			
7.	Medicine	05	01	01	03	01	05		01				
										190			

# Internal assessment break up

		W1-	Disco Deced Assessment							
	Work Place Based Assessment 50% (30 marks)									
End of block assessment	Ward test	Evening ward duties	Histories	Case presentation						
50%	50%	10%	20%	20%						
	15	03	06	06						
(30 marks)		More than $3 = 1.5$ marks	Complete 5 histories = 06 marks	1 case presentation = 06 marks						
		Less than $3 = 0$ marks	Incomplete 5 histories = 04 marks Less	No case presentation = zero marks						
			than 5 histories = zero marks							

# CLINICAL CLERKSHIP OBS/GYNAE

### 4<sup>TH</sup> YEAR OBS/GYNAE CLINICAL CLERKSHIP HOSPITAL

## DURATION TWO WEEKS

Morning: 10.30 am to 02.00 pm



Day	Specialty	Topic	SPECIF	IC LEARNIN	G DOMAINS	CC	OGNI	ΓΙΟΝ	PSYCI	HOMOTOR	AFFE	ECTIVE	MI T
			Cognition	Skill	Attitude	C1	C2	C3	P1	P2	A1	A2	
			FIRST WEEK	(ROTATION	1)								
Monday		Basic antenatal care/ Obstetric history taking/Examination / Antenatal card filling		*	*	*			*		*		Bedside teaching
Tuesday		Hypertensive disorders in pregnancy		*	*	*	*						SGD
Wednesday	OBS	Diabetes in pregnancy		*	*		*		*		*		Bedside teaching
Thursday		Anemia in pregnancy		*	*		*		*		*		Bedside teaching
			SECON	ND WEEK									
Monday		Diagnosis of labour/ Stages/ Management of normal labour				*	*						SGD/LR
Tuesday	m	Types of Abnormal labour/ Malposition / Managaement including operative deliveries		*	*			*	*		*		SGD
Wednesday	OB	3 <sup>rd</sup> stage of labour and complications including PPH		*	*		*		*		*		SGD/LR
Thursday		Hands on drill( Meachanism of labor/CTG/partogram/maternal resuscitation											Skills lab
			THIRD	WEEK ( ROT.	ATION II)								

Monday	Multiple pregnancy							Skills lab
Tuesday	PTL/PPROM							
Wednesday	APH							
Thursday	IUGR							
		F	OURTH WEEL	ζ				
Monday	Puerperium/ breastfeeding/contraception							
Tuesday	Rh incompatibility							
Wednesday	Hans on drill (Instrumental delivery/ shoulder dystocia/ breech delivery/ neonatal resuscitation)							
Thursday								

WARD TEST ( 50 MCQS + 10 SAQS)TOTAL MARKS = 100

DAY	Activity -I 10.30 – 11.30 am	Activity – II 11.30- 12:30pm	Activity III 12:30pm to 2:00pm	Sites of teaching- learning	Assessment at the end of rotation
1 <sup>ST</sup> DAY	History taking and examination of patients supervised by station incharge	Case presentation by students	Presentation of students on allotted topics followed by class by AP/SR	Bedsides ( wards+ labor room+ skills lab)	MCQS SAQS
2 <sup>ND</sup> DAY – 14 <sup>th</sup> DAY	History taking and examination of patients supervised by station incharge	Case presentation by students	Presentation of students on allotted topics followed by class by AP/SR	Bedsides ( wards+ labor room+ skills lab)	MCQS SAQS
15 <sup>th</sup> Day	Revision	of hands-on c	lrills		
16 <sup>th</sup> DAY	WARD T	EST			

#### COMMUNITY ORIENTED CLERKSHIP MODULE

#### Theme (AIM):

The primary purpose of this module is to educate students in those areas of the subject of CM&PH which are learnt better by onsite presence of the students at certain sites, processes, agencies which have public health relevance and in general community setting. Moreover some, areas of the subject which demands close interactive teachings in small group like HHS data analysis & report writing skills, contraceptive use skills, vaccination skills, etc are also covered during this rotation. All opportunities available within and outside the institution within affordable logistics, time, are focused for this purpose. A short time of this batch rotation is dedicated for health education communication practices as Health awareness work and other social work.

#### LEARNING OUTCOMES (LOS):

At the end of this learning module students are expected to achieve following Public health Competencies as will be able to:

- 1. Undertake a population-based health survey (HHS)
- 2. Appreciate working of First level Care Facility (Public Sector)
- 3. Perform Community Immunization / EPI vaccinations.
- 4. Develop Hospital waste management plans.
- 5. Develop Community based health awareness message.
- 6. Communicate for Health awareness in community settings.
- 7. Commemorate International public health days.
- 8. Develop Hospital administration Plans.
- 9. Undertake Preventive healthcare inquiries and NCDs Risk Factors Surveillance
- 10. Counsel for the contraceptive devices to the community

#### MODULE OUTLINE:

- A batch comprising 20-22 students is posted in the department of CM & PH for a period of 2weeks (Monday to Thursday-04 hrs. /day & for 32hrs in total). This schedule is run over the whole academic year, till all students of 4<sup>th</sup> year MBBS class passes through this rotation.
- Batch formation and schedules of rotation for whole class as notified by the DME / Student's section will be followed accordingly.

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• At commencement of the academic year overall batch learning module coordinator, nomination of batch in-charges, senior faculty in charges and calendar schedule of batch rotation for all batches over the whole academic year will be notified by the Department of CM & PH.

Domains of learning: learning will occur in all the three domains C, A & P

#### SOPS OF LEARNING & ASSESSMENTS:

- Active participation will be graded by the batch in charge (under a check list) during the activity / session and grades/marks will be entered in the practical manual as out of 05 (Max marks 05) by the batch in charge. O5 Max Marks are reserved for CHC (HMDTD and Health awareness work.
- Assessment will be done by OSPE / MCQs Exam / Viva voce at the end of each module and credit will be objectively recorded for the purpose of internal assessment. (Max mark 10)
- General assessment of the subject learning will be through MCQs, SEQs & OSPE on the relevant subjects in the relevant end of modules, block exams and Send up Exams.
- Students are required to report / write the relevant work in Practical Journal, House Hold Survey Report Book and log all the clerkship activities in the Logbook on daily basis.

DAY	Activity -I 10.30 – 11.00 Session topic	Activity – II 11.00- 11.30am Session topic	Activity III 11.30- 01.00pm Session topic	Act-V 01.00 – 2.00pm Session topic	Sites of teaching- learning	Assessment	Session outcome (level of learning)
1 <sup>ST</sup> DAY	instructing / demonstrati on on Practical Manual based Assignment s	Visit to CHC SGIS on Health days commemor ation work, Display material, PPT.	• SGIS on HMDTD practicum. Topic finalization, CHC- Message draft outlines finalization.	PPT based Demo on How to conduct & report HHS. Guidelines on PHI work to be done during clinical rotations / ward duties	Demonstration on n / lec Hall 3     CHC -     Dept. CM NTB     RMU.	• 1-2 OSPE in end of clerkship exam (credit will part of IA) • Assessment of HHS -Report (Max marks:5 part practical /viva exam 4th Prof MBBS)	<ul> <li>Construct a health message. (C6)</li> <li>Prepare Health days commemoration stuff, Display material, PPT, (P)</li> <li>Undertake a health survey. (HHS) (C3)</li> </ul>
2 <sup>ND</sup> DAY	Follow up session on HM-DTD work - HHS work - health days commemorat ion work	SGIS/ Briefing / PPT based guidelines on field visit of the day ( EPI services center HFH)	FV to the EPI center HFH	Health awareness work (HAW)	<ul> <li>Demo Room,</li> <li>EPI</li> <li>Center</li> <li>HFH</li> <li>OPD,</li> <li>hospital shelters</li> <li>sites for health</li> <li>awareness</li> <li>work (HAW)</li> </ul>	<ul> <li>1-2 OSPE in end of clerkship exam (credit will part of IA)</li> <li>Grade of performance in EPI visit reporting.</li> <li>Credit of HAW</li> </ul>	<ul> <li>Explain cold chain component at EPI center</li> <li>Vaccinate (EPI) vaccines to the clients.</li> <li>Comprehend EPI system</li> </ul>

DAY	Activity -I 10.30 – 11.00 Session topic	Activity – II 11.00- 11.30am Session topic	Activity III 11.30- 01.00pm Session topic	Act-V 01.00 – 2.00pm Session topic	Sites of teaching-learning	Assessment	Session outcome (level of learning)
3 <sup>RD</sup> DAY	Follow up session on HM- DTD work & HHS	SGIS / Briefing / PPT based guidelines on FV to MCH & FP Services Center HFH	FV to the MCH services & FP center HFH	Health awareness work (HAW)	<ul> <li>FP Center</li> <li>HFH</li> <li>OPD,</li> <li>hospital shelters</li> <li>sites for</li> <li>HAW</li> </ul>	1-2 OSPE     in end of clerkship exam (credit will part of IA)     Grade of performance in EPI visit reporting.  Credit of HAW	<ul> <li>Identify CP devices available at MHC FP center</li> <li>Counsel clients for use of a contraception method</li> <li>Place CP devices to client (P)</li> </ul>
4 <sup>TH</sup> DAY	Follow up session on HM- DTD work & HHS	Briefing / guidelines on FV Hospital waste disposal system in hospitals	• FV to the hospital waste disposal system & relevant sites / Incinerator	Health awareness work (HAW)	• FP Center HFH OPD, hospital shelters sites for HAW	<ul> <li>End of module OSPE</li> <li>Grade of performance in visits to sites</li> </ul>	<ul> <li>Explain hospital waste disposal system</li> <li>Develop a hospital waste management plan</li> <li>Explains various domains of hospital management (C2)</li> </ul>

DAY	Activity -I 10.30 – 11.00 Session topic	Activity – II 11.00- 11.30am Session topic	Activity III 11.30- 01.00pm Session topic	Act-V 01.00 – 2.00pm Session topic	Sites of teaching- learning	Assessment	Session outcome (level of learning)
5 <sup>TH</sup> DAY	SGIS / PPT based briefing on Hospital management & administrati on	Visit to Hospital management & administration (HFH) office	Health awareness work (HAW			End of module OSPE Grade of performance in visits to sites	
6 <sup>TH</sup> DAY	SGIS / PPT based briefing on visit to First level of health care facility (FLCF) BHU/RHC	Field visit to RHC Khayaban Sir-Syed (RHC) or BHU	· Demo room / lec Hall 3 NTB / CPC-Hall. RHC / BHU	Health awareness work (HAW at site visited	• End of module OSPE Report credit in PJ		Explain working of FLCF Appreciate PHC elements at FLCF.

7 <sup>TH</sup> DAY	Health days commemoration	12.00 – 2.00pm	Communication skills
	(walk/ seminar/ presentation/ CHC-message dissemination work (10.30 – 12.00pm)	<ul> <li>Completion &amp; assessment of relevant Practical Journal work,</li> <li>HHS-report book,</li> </ul>	Comprehend frequency Preventable RFs of NCDs in the real population (RF surveillance) Undertake a preventive Healthcare inquiry
		• Logbook etc.	
		Feedback discussion on PHI	

# CLINICAL TRAINING ROTATIONS 4<sup>TH</sup> YEAR MBBS CLASS (SESSION 2019-2020) <u>STARTING</u> w.e.f 06-03-2023 ENDING 03-12-2023.

Date	Medicine /Neurology DHQ	OBS/GYN HFH I & II	OBS/GYN BBH & DHQ	C.MED	E.N.T. H.F.H.	E.N.T. B.B.H	E.N.T. D.H.Q	Medicine DHQ	EYE H.F.H	EYE B.B.H.	EYE DHQ	PEADS H.F.H	PEADS B.B.H.	CARDIO	PATH	NEURO SURGE RY
06-03-2023 To 19-03-2023	A	B1, HFH-1 B2, HFH-2	C1, BBH C2, DHQ	D	Е	F	G	Н	I	J	K	L	M	N	0	P
20-03-2023 To 02-04-2023	В	C1, HFH-1 C2, HFH-2	D1, BBH D2, DHQ	Е	F	G	Н	I	J	K	L	- N		0	Р	A
03-04-2023 To 16-04-2023	С	D1, HFH-1 D2, HFH-2	E1, BBH E2, DHQ	F	G	Н	I	J	K	L	M			P	A	В
17-04-2023 To 07-05-2023 Spring V.	D	E1, HFH-1 E2, HFH-2	F1, BBH F2, DHQ	G	Н	I	J	K	L	М	N	- P	О	A	В	С
08-05-2023 To 28-05-2023 Sport W.	Е	F1, HFH-1 F2, HFH-2	G1, BBH G2, DHQ	Н	I	J	K	L	M	N	0	ı	A	В	С	D
29-05-2023 To 11-06-2023	F	G1, HFH-1 G2, HFH-2	H1, BBH H2, DHQ	I	J	K	L	M	N	0	P	В		С	D	Е

12-06-2023 To 31-07-2023 Summer V.	G	H1, HFH-1 H2, HFH-2	I1, BBH I2, DHQ	J	K	L	M	N	O	Р	A		С	D	E	F
01-08-2023 To 13-08-2023	Н	I1, HFH-1 I2, HFH-2	J1, BBH J2, DHQ	K	L	M	N	O	P	A	В			E	F	G
14-08-2023 To 27-08-2023	I	J1, HFH-1 J2, HFH-2	K1, BBH K2, DHQ	L	M	N	О	P	A	В	С	D	E	F	G	Н
28-08-2023 To 10-09-2023	J	K1, HFH-1 K2, HFH-2	L1, BBH L2, DHQ	M	N	O	Р	A	В	С	D	F		G	Н	I
11-09-2023 To 24-09-2023	K	L1, HFH-1 L2, HFH-2	M1, BBH M2, DHQ	N	О	P	A	В	С	D	Е	Γ	G	Н	I	J
25-09-2023 To 08-10-2023	L	M1, HFH-1 M2, HFH-2	N1, BBH N2, DHQ	О	P	A	В	С	D	Е	F	Н	U	I	G	K
09-10-2023 To 22-10-2023	M	N1, HFH-1 N2, HFH-2	O1, BBH O2, DHQ	P	A	В	С	D	Е	F	G	11	I	J	K	L
23-10-2023 To 05-11-2023	N	O1, HFH-1 O2, HFH-2	P1, BBH P2, DHQ	A	В	С	D	Е	F	G	Н	J	1	K	L	М
06-11-2023 To 19-11-2023	О	P1, HFH-1 P2, HFH-2	A1, BBH A2, DHQ	В	С	D	Е	F	G	Н	I	J	K	L	M	N

20-11-2023 To 03-12-2023	P	A1, HFH-1 A2, HFH-2	B1, BBH B2, DHQ	С	D	Е	F	G	Н	I	J	L		М	N	О
Date	Medicine /Neurology DHQ	OBS/GYN HFH I & II	OBS/GYN BBH & DHQ	C.MED	E.N.T. H.F.H.	E.N.T. B.B.H.	E.N.T. D.H.Q	Medicine D.H.Q	EYE H.F.H	EYE B.B.H.	EYE DHQ	PEADS H.F.H	PEADS B.B.H.	CARDIO	PATH	NEURO SURGE RY

# Learning Resources

Subject	Resources
OBS/GYNAE	<ul> <li>Gynaecology by ten teachers 20<sup>th</sup> edition</li> <li>Obstetrics by ten teachres 20<sup>th</sup> edition</li> </ul>
Community Medicine	<ul> <li>Park's Textbook of Preventive and Social Medicine, 26<sup>th</sup> edition, Chapter 3, 4, 5</li> <li>Textbook of Community Medicine by Muhammad Ilyas and Dr Irfanullah Siddiqi</li> <li>Epidemiology by Leon Girdis</li> </ul>

# Time Table

Integrated Clinically Oriented Modular Curriculum for Fourth Year MBBS

REPRODUCTION MODULE TIME TABLE

Fourth Year MBBS

Session 2023 – 2024

DURATION OF MODULE: 7 WEEKS

CORDINATOR: DR SADIA KHAN

CO-ORDINATOR: DR ISMAT BATOOL

REVIEWED BY: MODULE COMMITTEE

MEMBERS OF MODULE COMMITTEE

PROF.DR.MUHAMMAD UMAR	Chairman	VICE CHANCELLOR RMU
Prof .Dr Lubna Ejaz	Dean of OBS & Gynae	OBS &Gynae department
Assoc Prof Dr. Asma khan	Associate dean of basic sciences	Pharmacology Department
Prof. Dr Sana Bilal	Incharge 4 <sup>th</sup> year Modular Curriculum	Community Medicine Department
Dr Omaima Asif	Overall Modular Coordinator	Pharmacology Department
Dr Haseeba Talat	Focal Person	Pharmacology Department
Dr Unaiza	Focal Person	Pathology Department
Dr Shehzad Manzoor	Focal Person	Medicine Department
Dr Usman Qureshi	Focal Person	Surgery Department
Dr Gul Meher	Focal Person	Community Medicine Department
Dr Asad Shabbir	Focal Person	Pediatrics Department

APPROVED BY: CURRICULUM COMMITTEE RMU

#### RAWALPINDI MEDICAL UNIVERSITY RAWALPINDI NEW TEACHING BLOCK

### $TENTATIVE\ TIME\ TABLE\ 4^{TH}YEAR\ MBBS-POPULATION\ MEDICINE\ \&\ REPRODUCTION\ MODULE\ 2023-2024\ (FIRST\ WEEK)$

DATE/DAY	8:00 AM – 9:00 AM	9:00 AM – 10:00 AM	
Manday	ANATOMY	PHYSIOLOGY	
(24-07-23)	Fetal skull (REVISIT LECTURE) DHQ Dr Shama	Physiological changes in pregnancy (REVISIT LECTURE)  BBH Dr Nighat Dr humera Masood	
Tuesday (25-07-23)	OBS (LGIS)	COMMUNITY MEDICINE (LGIS)	
	Basic terminology in Obstetrics, Basic antenatal care Gynae Unit I Dr. Humaira Bilqis Dr. Saima Shoaib	Preventive medicine in obs-I Assc Prof) Dr. Khola, (Asst Prof) Dr.Gulmehar)	
Wednesday	COMMUNITY MEDICINE (LGIS)	OBS (LGIS)	
(26-07-23)	Preventive medicine in obstetrics –II	Management of premalignant & malignant disease of cervix	
		Gynae-II Dr. Khansa Iqbal Dr. Aqsa	

Γhursday (27-07-23)	PHARMACOLOGY (LGIS)	OBS (LGIS)			
	Gonadal Hormones -I DrAsma Dr Zunera	Diagnosis of 1st stage of labour, its management and abnormalities Ctg, patogram Gynae Unit-II Dr Khansa Dr Aqsa			
Friday (28-07-23)	(	09 <sup>TH</sup> MOHARRAM			
	10 <sup>7</sup>	<sup>TH</sup> MOHARRAM			
Saturday (29-07-23)					

#### RAWALPINDI MEDICAL UNIVERSITY RAWALPINDI NEW TEACHING BLOCK

TENTATIVE TIME TABLE 4<sup>TH</sup>YEAR MBBS-POPULATION MEDICINE & REPRODUCTION MODULE 2023 (SECOND WEEK)

		TENTATIVE TIME TABLE 4	F"YEAR MBBS-POPULATION MEDICINE & REPRODUCTION MODULE 2023 (SECOND WEEK)
DATE/DAY	8:00 AM – 9:00 AM	9:00 AM – 10:00 AM	<u>10:30 AM – 12:00</u> PM
	Anasthesia(LGIS)	OBS (LGIS)	
Monday (31-07-23)	Pain management during labor  Dr Ammara  Dr Ayesha	2 <sup>nd</sup> stage of labour, mechanism of normal labour. Gynae Unit I Dr Saima Khan Dr Saima Anwar	CLINICAL CLERKSHIP
	OBS	y(LGIS)	
	(LGIS)		
Tuesday (01-08-23)	Episiotomy/ instrumental delivery	Pelvic cellulitis & abscess	
	Gynae Unit II Dr. Maliha Sadaf Dr. Aqsa Ikram	Dr Hina (BBH) Dr Ali Kamran (DHQ)	
	OBS (LGIS)	PATHOLOGY (CBL)	
Wednesday (02-08-23)	Abdominal Delivery BBH Dr Ismat Batool Dr Humaira Masood	Rh incompatabilitiy anemia and diseases in pregnancy Dr Abid Dr Saeed Dr Nida Dr Mahjabeen	
	OBS(LGIS)	COMMUNITY MEDICINE (LGIS)	
Thursday (03-08-23)	3 <sup>rd</sup> stage of labor & its complications ( retained placenta/ uterine inversion)	Preventive medicine in obstetrics III(Postnatal care)	
	DHQ Dr Sobia Dr Tabinda	Dr. Khola, Dr. Gulmehar	

		08:00am 09:45am	9.45-10.30 am	10:30 -11:15 am	11:15ar	m-12:00pm		
Friday	COMMUNITY MEDICINE (LGIS)	PHARMACOLOGY (Practical)	OBS (LGIS)	OBS (LGIS)	Ps	ychiatry (LGIS)		
(04- 08-23)	Demonstration on CP devices/methods Evaluation of contraceptive methods Preventive aspects of breast feeding  Dr Ayesha PGT1 Dr Bushra PGT 2	PK Calculation I Dr Zoofishan Dr Zaheer	Postpartum Hemorrhage and its management. Gynae Unit I Prof. Lubna Ejaz Dr. Farah	Puerperium & its complications Gynae Unit II Dr. Khansa Iqbal Dr. Saira Ahmed	Puerperal Dr Zona	psychosis		
	ODD	EVEN 99:45am	09:45am – 10:30am	10:30 -11:15 am		11:45am-12:30pm	12:30-1:15 pm	1:15-2:00 pm
Saturday 05-08-23	COMMUNITY MEDICINE (LGIS)	PHARMACOLOGY (Practical)	GYNAE(LGIS)	PHARMACOLOGY (LGIS)	Break 11:15s m- 11:4	SURGERY(L GIS)	ANESTHESIA (LGIS)	OBS SGD
	Demonstration on CP devices/methods Evaluation of contraceptive methods Preventive aspects of breast feeding Dr Ayesha PGT1 Dr Bushra PGT 2	PK Calculation 1 Dr Zoofishan Dr Zaheer	Contraception BBH Dr Hina Dr Asma Khan	Gonadal hormones –2 Dr Asma Dr Zunera		of laparotomy (visceral and vascular injuries)	Fluid balance & blood transfusion  Dr Ammar Dr Ayesha	Mechanism of normal labor and placental delivery DHQ Dr Shama Dr Ruqaiyah
	EVEN	ODD						<u> </u>

#### RAWALPINDI MEDICAL UNIVERSITY RAWALPINDI NEW TEACHING BLOCK TENTATIVE TIME TABLE 4THYEAR MBBS-POPULATION MEDICINE & REPRODUCTION MODULE 2023 (THIRD WEEK)

	8:00 AM – 9:00 AM	9:00 AM – 10:00 AM
Monday 7.08.23	PEADS(LGIS)	OBS (SGD)
	Neonatal resuscitation	Malpresentations
	Dr Mansoor afzal Dr Hafeez	Gynae Unit I Prof Lubna Ejaz
	Di Haicoz	Dr Tahira
Tuesday 8.08.23	PHARMACOLOGY	OBS (LGIS)
	(LGIS)	
	Gonadal hormones-3	Early pregnancy
	Du Assas	complications (miscarriages & Ectopicpregnancy)
	Dr Asma Dr Zunera	
	Di Zunera	DHQ DrSobia
		Dr Tabinda
Wednesday 9.08.23	OBS (LGIS)	OBS (LGIS)
	Multiple pregnancy	Antepartum hemorrhage
	Gynae Unit II	ВВН
	Dr. Maliha Sadaf	Dr Nighat
	Dr. Aqsa Ikram	Dr Shumaila
Thursday 10.08.23	COMMUNITY MEDICINE (LGIS)	OBS (LGIS)
	Family Planning,	Perinatal infections
	Population control	DHQ
	approach and practice FP-I+II	Dr Sobia Nawaz
		Dr Tabinda
	Dr Afifa	
	Dr Mamoona	

	8:00am-	9:45am	09:45am – 10:30am	10:30 -11:15 am	11:15am-12:00p	m		
Friday (11-08-23)	COMMUNITY MEDICINE	PATHOLOGY (PRACTICAL )	QURAN CLASS	OBS (LGIS)	PEADS			
	IUGRC-VI All demonstrator and PGTs	Ovarian teratoma and hydatiform mole  Dr Faiza Zafar		Preterm labor and PROM Gynae Unit -I Prof Lubna Ijaz Dr Saima Anwar	Breast Feeding  Dr Maryam Amja  Dr Jaweria Zia	ad		
	ODD 8:00am-9	EVEN :45am	09:45am – 10:30am	10:30 -11:15 am	11:15-11:45am	11:45-12:30PM	12:30-01:15PM	01:15-2PM
Saturday (12-08-23)	COMMUNITY MEDICINE	PATHOLOGY (PRACTICAL )	PEADS (LGIS)	MEDICINE (LGIS)	B R	PEADS (LGIS)	OBS SGD	OBS SGD
	IUGRC-VI All demonstrator and PGTs	Ovarian teratoma and hydatiform mole  Dr Faiza Zafar  ODD	LBW/Prematurity  Dr Sumbal Ghazi  Dr Saima Akhter	Infection in pregnancy Dr Mujeeb	E A K	Immunization Dr Warda Imtiaz Dr Syra Liaqat	COVID 19 in preg Dengue and HIV i Gynae unit II Dr Tallat Dr Sabeen	
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# RAWALPINDI MEDICAL UNIVERSITY RAWALPINDI NEW TEACHING BLOCK TENTATIVE TIME TABLE $4^{\rm TH}$ YEAR MBBS-POPULATION MEDICINE & REPRODUCTION MODULE 2023 (FOURTH WEEK)

	8:00 AM – 9:00 AM	9:00 AM – 10:00 AM	10:30 AM – 12:00 PM
Monday 14.08.23			
	INDEPENDEN	CE DAY	CLINICAL CLERKSHIP
Tuesday 15.08.23	CARDIOLOGY (LGIS)	OBS(LGIS)	
	Cardiac disease in pregnancy Dr Asad (BBH)	Hypertension in pregnancy DHQ	
		Dr Shama Dr Ruqaiyah	
Wednesday 16.08.23	OBS (LGIS) IUGR/Oligo	MEDICINE (LGIS) Diabetes in Pregnancy	
	Gynae Unit I Dr.Saima khan Dr Ammara	Dr Mujeeb	
Thursday 17.08.23	PATHOLOGY (LGIS)	COMMUNITY MEDICINE (LGIS)	
	Benign diseases of ovary  Dr Fatima  Dr Sarah	Preventive aspects of neonatal care (Preventive Pediatrics-I Prof Arshad Sabir Dr Khola	

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	8:00am-9	9:45am	09:45am – 10:30am	10:30 -11:15 am	11:15am-12:00p	om		
Friday (18-08-23)	COMMUNITY MEDICINE	PHARMACO LOGY (PRACTICAL )	QURAN CLASS	MEDICINE (LGIS)	OBS (LGIS)			
	IUGRC-VII	PK Calculation II		Anemia in pregnancy	Rh Incompatabil	ity		
	All demonstrator and PGTs	Dr Zoofishan Dr Zaheer			Gynea Unit-II Dr Khansa Iqbal Dr Farah			
	ODD	EVEN						
	8:00am-9:	45am	09:45am – 10:30am	10:30 -11:15 am	11:15-11:45am	11:45-12:30PM	12:30-01:15PM	01:15-2PM
Saturday (19-08-23)	COMMUNITY MEDICINE	PHARMACO LOGY(PRAC TICAL)	RADIOLOGY (LGIS)	PEADS (LGIS)	B R	PEADS (LGIS)	MEDICIN E (LGIS)	OBS SGD
	IUGRC-VII  All demonstrator and PGTs	PK Calculation II Dr Zoofishan Dr Zaheer		Neonatal Jaundice Dr Maimoona Qudrat Dr Amal Hashmi	E A K	Neonatal Seizure Dr Huma Asghar Dr Naila Ahsan	Liver disorders and Thrombocytopenia in Pregnancy	Medical disorders in pregnancy
	EVEN	ODD					Dr Sadia Ahmed	BBH Dr Nighat Naheed

## RAWALPINDI MEDICAL UNIVERSITY RAWALPINDI NEW TEACHING BLOCK TENTATIVE TIME TABLE $4^{TH}$ YEAR MBBS-POPULATION MEDICINE & REPRODUCTION MODULE 2032 (FIFTH WEEK)

DATE/DAY	8:00 AM – 9:00 AM	9:00 AM – 10:00 AM		1	0:30 AM – 12:00 PM	12:00 PM – 02:00 PM
	OBS ( LGIS)	NEPHROLOGY (LGIS)				
Monday (21-08-23)	Oligo and Polyhydramnios.	Renal Disease in Pregnancy				
	DHQ Dr Sobia Nawaz Dr Tabinda	(Dr Asif AP nephron)				
Tuesday	OBS (LGIS)	MEDICINE (LGIS)				
(22-08-23)	Intra-uterine fetal death	Asthma in pregnancy				
	Gynae Unit I Dr Humaira Bilqis DR Amara	DR ZAID UMER				
	MEDICINE (LGIS)	PEDIATRICS(LGIS)				
Wednesday (23-08-23)	Epilepsy in pregnancy Dr Waqas Ahmed	IDM  Dr Maria Shamsher  Dr Sadaf Iqbal				
	COMMUNITY MEDICINE (LGIS)	MEDICINE (LGIS)				
Thursday (24-08-23)	Preventice pediatrics - II	Thombotic disorders in pregnancy				
	Prof Arshad sabir Dr khola	DR ARIF				
		0am - 45am	09	9:45am – 10:30am	10:30 -11:15 am	11:15am-12:00pm
	COMMUNITY MEDICINE	PATHOLOGY (PRACTICAL)	Qı	ıran class	REPRODUCTION ETHICS(LGIS)	GYN (LGIS)

Friday (25- 08-23)	Discussion on demographic measures  Dr Muneeba PGT Dr Zaira PGT	Tumors Of Breast  Dr Syeda Aisha		Gynae unit 1 Dr Humera Noreen	Manageme Gynae Un Dr. Malih Dr. Aqsa	a Sadaf			
	ODD	EVEN 08:00am -	09:45am – 10:30am	10:30 -11:15 am		11:45am-12:3	80pm	12:30-1:15 pm	1:15-2:00 pm
		09:45am	037110 4331 2010 04411	10100 11110 4111	Break	111.104.11.12.10	орт	12.00 1110 pm	7,70 2,00 pm
Saturday (26-08-23)	COMMUNITY MEDICINE (SGD)	PATHOLOGY (PRACTICAL)	GYN-( LGIS)	PATHOLOGY (LGIS)	11:15s m-11:45 am	PATHOLOG (LGIS)		GYNEA (LGIS)	PATHOLOGY (SGD)
	Discussion on demographic measures  Dr Muneeba PGT Dr Zaira PGT	Tumors Of Breast  Dr Syeda Aisha	Management of benign and Malignant disease of uterus Gynae Unit I Dr Humera Noreen Dr Amara	Benign diseases of breast (Non-Neoplastic lesions)  Dr Amna Dr Mehreen		Malignant dise of ovary Dr Mobina Dr MUdassira		Management of Benign and malignant ovarian tumors  DHQ Dr Shama Dr Ruqaiyah	Pathology od early pregnancy complications and non neoplastic placental patholog Dr Fatima Dr Fariha Dr Amna Dr Sarah

## RAWALPINDI MEDICAL UNIVERSITY RAWALPINDI NEW TEACHING BLOC TENTATIVE TIME TABLE $4^{TH}$ YEAR MBBS-POPULATION MEDICINE & REPRODUCTION MODULE 2023 (SIXTH WEEK)

DATE/DAY	8:00 AM – 9:00 AM	9:00 AM – 10:00 AM	<u>10:30 AM – 12:00</u> PM	12:00 PM – 02:00 PM
	PATHOLOGY (LGIS)	GYN (LGIS)		
(28-08-23	Dr Syeda Fatima	Management of benign & malignant Disease of vulva& vagina		
		Gyane Unit I Dr Humera Noreen Dr Farah		
Tuesday	COMMUNITY MEDICINE (LGIS)	PATHOLOGY (LGIS)		CLINICAL CLERKSHIP
(29-08-23)	Demography –I Dr Afifa kalsoom (AP) Dr Imran Younas (AP)	Malignant neoplasm of breast Dr Mobina Dr Wafa		

	GYN (LGIS)	COMMUNITY MEDICINE (LGIS)
Wednesday (30-08-23)	Prenatal diagnosis	Demography –II
	ВВН	Dr Afifa kalsoom (AP)
	Dr. Ismat Batool, Dr. Humaira	Dr Imran Younas (AP)
	PATHOLOGY	COMMUNITY MEDICINE (LGIS)
	(LGIS)	MEDICINE (LOIS)
Thursday	Malignant diseases ofcervix	Demography-III
(31-08-23)	.Cervical intraepithelial	Dr Afifa kalsoom (AP)
	neoplasia Cervical carcinomas	Dr Imran Younas (AP)
	Dr Wafa	
	Dr Mudassira	

		08:00am - 09:45am	09:45am – 10:30am	10:30 -11:15 am	11:15ar	m-12:00pm		
	COMMUNITY MEDICINE (LGIS)	PHARMACOLOGY (PRACTICAL)	Quran class	PATHOLOGY (LGIS)	GYN- L	GIS		
Friday (01- 09-23)	IUGRC-VIII All facalties	P Drugs and Prescription writing  Dr Rubina  Dr Uzma		Testicular tumors Dr Rabbiya Dr Mehreen	Physiolo menstrua BBH Dr Hina Dr Huma	al cycle		
	ODD	EVEN						
Saturday (02-09-23)		08:00am - 09:45am	09:45am – 10:30am	10:30 -11:15 am	Break	11:45am-12:30pm	12:30-1:15 pm	1:15-2:00 pm
	COMMUNITY MEDICINE (LGIS)	PHARMACOLOGY (PRACTICAL)	PHARMACO LOGY (CBL)	GYN- LGIS	11:15s m-11:45	COMMUNITY MEDICINE (LGIS)	PATHOLOGY (SGD)	OBS (LGIS)
	IUGRC-VIII All faculties	P Drugs and Prescription writing  Dr  Rubina  Dr Uzma	Hormonal contraceptives  DR Arsheen DR Tahira DR Rubina DR Uzma	Management of STDs DHQ Dr Sobia Nawaz Dr Ruqaiyah		School health services Dr Abdul Qudos Dr Asif Butt	STD Dr Mudassira Dr Rabbiya Dr Syeda Fatima Dr Mehreen	Prolonged Pregnancy / IOL  BBH Dr Nighat Nahee Dr Humera Masood
	EVEN		DIC OZIIIA					1 <b>114300</b> 4
		ODD						

# RAWALPINDI MEDICAL UNIVERSITY RAWALPINDI NEW TEACHING BLOCK TENTATIVE TIME TABLE 4<sup>TH</sup>YEAR MBBS-POPULATION MEDICINE & REPRODUCTION MODULE 2023 (SEVENTH WEEK)

DATE / DAY	8:00 AM – 9:00 AM	9:00 AM – 10:00 AM	<u>10:30 AM – 12:00 PM</u>	12:00 PM – 02:00 PM
Monday	PATHOLOGY(CBL)	PHARMACOLOGY (LGIS)		
(04-09-23)	Testicular atrophy Dr Syed Iqbal Haider Dr Syeda Aisha	Oxytocic drugs & Uterine Relaxants		
	Dr Unaiza Dr Faiza	DR Asma DR Attiya	C	CLINICAL CLERKSHIP
Tuesday	PATHOLOGY (CBL)	OBS (LGIS)		
(05-09-23)	Pathology of vulva and vagina Dr Abid Dr Saeed Dr Nida Dr Mahjabeen	Induced/septic abortions  Gynae Unit II  Dr Talat  Dr Aqsa		
Wednesday (06-09-23)	PHARMACOLOGY (CBL)  Oxytocic and Uterine relaxant  DR  Arsheen  DR Tahira  DR Rubina	COMMUNITY MEDICINE (LGIS)  Health economics framework and structure & evaluation  Dr Sana (Assoc)  Dr Imrana younas		
Thursday (07-09-23)	(CBL)	COMMUNITY MEDICINE(LGIS) Global Public Health- WHO,NGOs Dr Narjis		
		Dr Asif Butt	09:45am — 10:30am	1:15am-12:00pm

Friday (08-09023)	COMMUNITY MEDICINE	PATHOLOGY (PRACTICAL)	Quran class	PATHOLOGY (SGD)	PATH OLO GY(S GD)			
Saturday 09-09-2023	REVISION	Benign and pre malignant disease of Uterus  Dr Mahjabeen  EVEN	_	GTD, Choriocarcinoma Dr Fariha Dr Fatima Dr Amna	Dysfunct Dr Fatim Dr Tayy Dr Rabi Dr Mehre	aba yya	ling	
	08	3:00am - 09:45am	09:45am – 10:30am	Dr Sarah 10:30-11:15AM	Break 11:15sm-1 1:45am	11:45am-12:30pm	12:30-1:15 pm	1:15-2:00 pm
	COMMUNITY MEDICINE	PATHOLOGY (PRACTICAL)	PATHOLOGY (SGD)	PHARMACOLOGY (LGIS)		PATHOLOGY (SGD)	MEDICINE (LGIS)	OBS (SGD)
	REVISION	Benign and premalignant disease of Uterus  Dr Mahjabeen	Benign and premalignant disease of cervix Dr Tayyaba Dr Fariha Dr Syeda Fatima Dr Sarah	Drugs used in treatment of infertility  DR Asma DR Haseeba		BPH, Prostatic cancer, testicular atrophy Dr Mudassira Dr Fatima Dr Tayyabba Dr Rabbiya		Patogram, CTG Gynae unit II Dr Khansa Dr Farah
	EVEN ODD  END MODULE ASSESSMENT 11 <sup>TH</sup> SEPTEMBER 2023							

## Teaching Staff / Human Resource of Department of OBS / GYNAE

Sr. #	Designation Of Teaching Staff / Human Resource	Total number of teaching staff
1.	Professor	01
2.	Associate professors	02
3.	Assistant professors	03
4.	Senior Registrars	02

## Teaching Staff / Human Resource of Department of Community Medicine

Sr.no.	Designation	Total number of teaching staff
1	Professor	01
2	Associate professor	03
3	Assistant professor	02
4	Demonstrators	05
5	PGTs	04

## Teaching Staff / Human Resource Distribution of Department of Pathology in Block-IV

Sr.no.	Designation	Total number of teaching staff
1	Professor	03
2	Associate professor	01
3	Assistant professor	03
4	Dmonstrators	12

# TABLE OF SPECIFICATION TEACHING HOURS:134

Teaching hours	Weight age	MCQs	SEQs
LGIS/SGD		(01 mark each)	(05 marks each)
32.75	24.45 %	15	02
28	20.89 %	25	05
18.25	13.61 %	10	05
35.25	26.35 %	30	02
05.75	4.29 %	10	01
07	5.22 %	05	01
1.75	1.30 %	05	01
134	100	100	85
	hours LGIS/SGD 32.75  28  18.25  35.25  05.75  07  1.75	hours age LGIS/SGD  32.75  24.45 %  28  20.89 %  18.25  13.61 %  35.25  26.35 %  05.75  4.29 %  1.75  1.30 %	hours       age       (01 mark each)         32.75       24.45 %       15         28       20.89 %       25         18.25       13.61 %       10         35.25       26.35 %       30         05.75       4.29 %       10         07       5.22 %       05         1.75       1.30 %       05

#### Research

Cultivating the culture of Research has always been envisioned as one of the main pillars of Rawalpindi Medical University, as a means to develop healthcare professionals capable of contributing to the development of their country and the world. For the purpose thereof, right from the inception of Rawalpindi Medical University, efforts were concentrated to establish a comprehensive framework for research in Rawalpindi Medical University, as a matter of prime importance. With team efforts of specialists in the field of research, framework was made during the first year of the RMU, for the development and promotion of Research activities in RMU, called the Research Model of RMU, giving clear scheme and plan for establishment of required components for not only promoting, facilitating and monitoring the research activities but also to promote entrepreneurship through research for future development of RMU itself.



#### **Biomedical Ethics**

Ethical choices, both minor and major, confront us everyday in the provision of health care for persons with diverse values living in a pluralistic and multicultural society.

Four commonly accepted principles of health care ethics, excerpted from Beauchamp and Childress (2008), include the:

- 1. Principle of respect for autonomy,
- 2. Principle of nonmaleficence,
- 3. Principle of beneficence, and
- 4. Principle of justice.

### Family Medicine

Family Medicine is the primary care medical specialty concerned with provision of comprehensive health care to the individual and the family regardless of sex, age or type of problem. It is the specialty of breadth that integrates the biological, clinical and behavioural sciences. Family physicians can themselves provide care for the majority of conditions encountered in the ambulatory setting and integrate all necessary health care services.

#### Artificial intelligence

Artificial intelligence in medicine is the use of machine learning models to search medical data and uncover insights to help improve health outcomes and patient experiences. Artificial intelligence (AI) is quickly becoming an integral part of modern healthcare. AI algorithms and other applications powered by AI are being used to support medical professionals in clinical settings and in ongoing research. Currently, the most common roles for AI in medical settings are clinical decision support and imaging analysis.





