	<b>Rawalpindi Medical University</b>			
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<b>Document Information</b>
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<b>Category</b>	<b>Population medicine and reproduction Module Study Guide</b>
Document	Procedure for Control of Documented Information
Issue	1
Rev	00
Identifier	RMU-MR-SOP-59
Status	Final Document
Author(s)	Department Of Community Medicine
Reviewer(s)	Curriculum Committee.
Approver(s)	Vice Chancellor
Creation Date	05-06-2024
Effective Date	05-06-2024
Control Status	<b>Controlled</b>
Distribution	VC, Principal, ISO Committee
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<b>Document Approval</b>
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Prepared By	Reviewed By	Approved By
Department Of Community Medicine	Curriculum Committee	Vice Chancellor

	<b>Rawalpindi Medical University</b>		
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## Document Revision History

Author(s)	Date	Version	Description
Dr Sana Bilal Associate Professor Department of Community Medicine , Dr Mahjabeen sr demo (Community Medicine Department)	2017-2018	1 <sup>st</sup>	Developed for fourth Year MBBS. Composed of Horizontally Integrated subjects of Community Medicine, Pathology & Pharmacology and vertically integrated with Gynae & Obs .
Dr Sana Bilal Associate Professor Department of Community Medicine , Dr Mahjabeen sr demo (Community Medicine Department)	2019-2020	2 <sup>nd</sup>	Developed for fourth Year MBBS. Composed of Horizontally Integrated subjects of Community Medicine, Pathology & Pharmacology and vertically integrated with Gynae & Obs, Medicine, Surgery & Pediatrics .Los revised & updated.
Dr Sana Bilal Associate Professor Department of Community Medicine , Dr Imrana Saeed APWMO, (Community Medicine Department)	2021-2022	3 <sup>rd</sup>	Developed for fourth Year MBBS. Composed of Horizontally Integrated subjects of Community Medicine, Pathology & Pharmacology and vertically integrated with Gynae & Obs, Medicine, Surgery & Pediatrics .Los revised & updated Research & bioethics curriculum incorporated
Dr Sana Bilal Associate Professor Department of Community Medicine , Dr Imrana Saeed APWMO, (Community Medicine Department)	2022-2023	4 <sup>th</sup>	Developed for fourth Year MBBS. Composed of Horizontally Integrated subjects of Community Medicine, Pathology & Pharmacology and vertically integrated with Gynae & Obs, Medicine, Surgery & Pediatrics. Los revised & updated Research & bioethics curriculum incorporated along with Professionalism
Dr Sana Bilal Associate Professor Department of Community Medicine , Dr Imrana Saeed APWMO, Dr Zaira Azhar PGT (Community Medicine Department)	2023-2024	5 <sup>th</sup>	Developed for fourth Year MBBS. Composed of Horizontally Integrated subjects of Community Medicine, Pathology & Pharmacology and vertically integrated with Gynae & Obs, Medicine, Surgery & Pediatrics. Los revised & updated. Research & bioethics curriculum incorporated along with Professionalism. Entrepreneurship curriculum incorporated.

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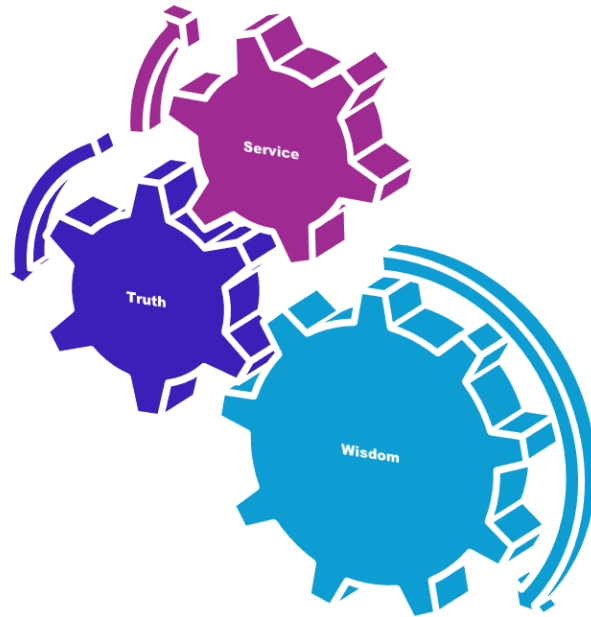
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# University Moto, Vision, Values & Goals

## RMU Motto



## 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.

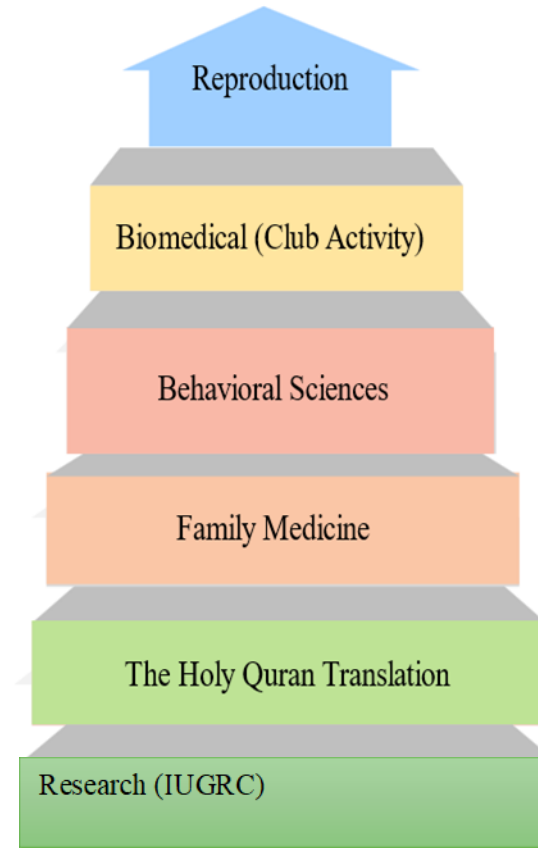
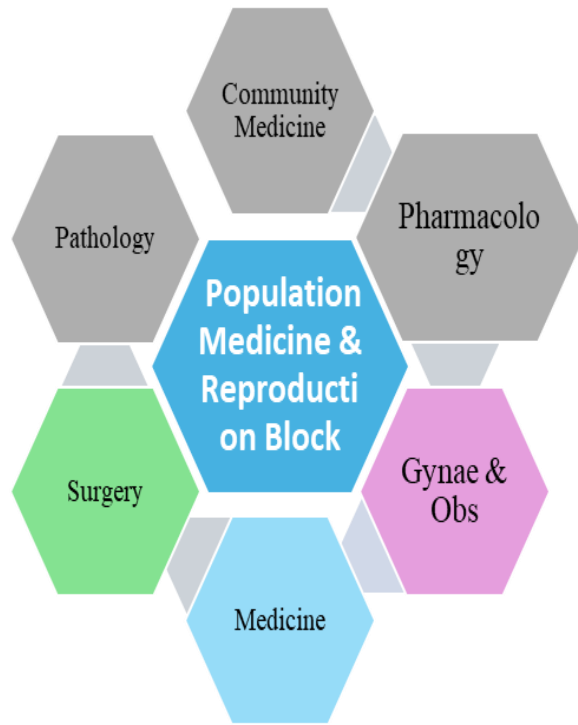
## Goals of the Undergraduate Integrated Modular Curriculum

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.

## **Integration of Disciplines in Endocrinology Block**





## Discipline Wise Details of Modular Contents

Subjects	Embryology	Histology	General Anatomy	Gross Anatomy
<ul style="list-style-type: none"> <li>• Community Medicine</li> </ul>	<ul style="list-style-type: none"> <li>• Non-Communicable</li> <li>• Disease introduction</li> <li>• (Hypertension ,CHD)</li> <li>• Non-Communicable Disease</li> <li>• (Diabetes, obesity)</li> <li>• Non-Communicable Diseases (Cancer)</li> <li>• Health care delivery system</li> <li>• Health care delivery system of Pakistan</li> <li>• Health programs of Pakistan</li> </ul>			
<ul style="list-style-type: none"> <li>• Pharmacology</li> </ul>	<ul style="list-style-type: none"> <li>• Anti-thyroid Drugs I</li> <li>• Anti-thyroid Drugs II</li> <li>• Drugs that Affect Bone Mineral Homeostasis I</li> <li>• Drugs Used in Diabetes I</li> <li>• Drugs used in diabetes II</li> <li>• Drugs used in diabetes III</li> <li>• Corticosteroid I</li> <li>• Corticosteroid II</li> <li>• Corticosteroid III</li> <li>• Mineralocorticoid Antagonist</li> <li>• Glucocorticoid Antagonists</li> <li>• Hypothyroidism</li> <li>• Corticosteroid</li> <li>• Diabetes mellitus</li> </ul>			
<ul style="list-style-type: none"> <li>• Pathology</li> </ul>	<ul style="list-style-type: none"> <li>• Hypothyroidism and Thyroid Tumors</li> <li>• Hyperthyroidism</li> <li>• Diabetics mellitus</li> <li>• Adrenal Gland/</li> <li>• Hyperadrenalism</li> <li>• Hypoadrenalism and adrenal tumors Disorders of Post-</li> <li>• Pituitary Hormones</li> <li>• Parathyroid Disorders</li> <li>• Parathyroid</li> <li>• Adenoma/carcinoma</li> <li>• Pancreatic tumors, Neuroendocrine</li> <li>• Disorders of Adrenal medulla &amp; MEN Syndrome</li> <li>• Complications of Diabetes Mellitus</li> </ul>			

	<ul style="list-style-type: none"> <li>• Pineal gland</li> </ul>
<b>Spiral Courses</b>	
<ul style="list-style-type: none"> <li>• The Holy Quran Translation</li> </ul>	
<ul style="list-style-type: none"> <li>• Bioethics &amp; Professionalism</li> </ul>	<ul style="list-style-type: none"> <li>• Research ethics</li> </ul>
<ul style="list-style-type: none"> <li>• Family Medicine</li> </ul>	<ul style="list-style-type: none"> <li>• Core concepts of family medicine in Diabetes</li> </ul>
<ul style="list-style-type: none"> <li>• Research</li> </ul>	<ul style="list-style-type: none"> <li>• IUGRC Presentations and Manuscript writing</li> </ul>
<b>Vertical Integration</b>	
<ul style="list-style-type: none"> <li>• Gynae/Obs</li> </ul>	<ul style="list-style-type: none"> <li>• Thyroid in Pregnancy</li> <li>• Pregnancy and Diabetes</li> <li>• Complications of Diabetes &amp; Gestational diabetes</li> </ul>
<ul style="list-style-type: none"> <li>• Pediatrics</li> </ul>	<ul style="list-style-type: none"> <li>• Thyroid Disorders</li> <li>• Diabetes Mellitus</li> </ul>
<ul style="list-style-type: none"> <li>• Surgery</li> </ul>	<ul style="list-style-type: none"> <li>• Surgical Interventions of thyroid</li> </ul>
<ul style="list-style-type: none"> <li>• Medicine</li> </ul>	<ul style="list-style-type: none"> <li>• Acromegaly</li> <li>• Diabetes Insipidus</li> <li>• Hypothyroidism</li> <li>• Hyperthyroidism Thyroid Disorder</li> <li>• Diabetes and Hypoglycemia</li> <li>• Diabetes Mellitus/DKA</li> <li>• Cushing's Syndrome and Addison's Disease</li> </ul>

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# 1- Endocrinology Module Team

Module Name: Endocrinology

Module-order: V

Duration of Module: 4 Weeks

MODULE COMMITTEE			MODULE TASK FORCE TEAM		
1.	Vice Chancellor RMU	Prof. Dr. Muhammad Umar	1.	Coordinator Co-coordinator	Dr. Sana Bilal Dr. Imrana Saeed
2.	Director DME	Prof. Dr. Rai Muhammad Asghar	2.	DME focal person	Dr Maryum Batool
3.	Convener Curriculum	Prof. Dr. Naeem Akhter	<b>DME Implementation Team</b>		
4.	Dean Basic Sciences	Prof. Dr. Ayesha Yousaf			
5.	Additional Director DME	Prof. Dr. Ifra Saeed			
6.	Associate Dean				
7.	Chairperson Community Medicine	Assoc Prof. Dr. Kholi Noreen			
8.	Focal Person Pharmacology	Dr. Attiya Munir	1.	Director DME	Prof. Dr. Rai Muhammad Asghar
9.	Focal Person Community Medicine	Dr. Sana Bilal	2.	Add. Director DME	Prof. Dr. Ifra Saeed
10.	Focal person Pathology	Dr. Syeda Ayesha	3.	Deputy Director DME	Dr. Saadia chuhadry
11.	Focal person family medicine	Dr saadia	4.	Assistant Director DME/Module planner & Implementation coordinator	Dr. Omaima Asif
			5.	Editor	Dr. Omaima Asif

## **Module Preparation team**

**Assoc Professor Dr Khola Noreen**

**HOD Community Medicine Department**

**Dr. Sana Bilal Associate professor**

**Coordinator**

**Dr Imrana Saeed**

**Co-Coordinator**

**Department of Community medicine**

**Rawalpindi Medical University**

## **2-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**

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### **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:

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

# Introduction to Endocrinology Module

**Introduction:** Endocrinology module provides integration of core concepts that underlie the foundation of basic sciences and their use in clinical medicine. This will (Even)tually lead to developing critical thinking for integration and application of basic knowledge for clinical application.

**Rationale:** System based learning structure is adopted. The Endocrinology module is designed to impart basic knowledge. This knowledge will serve as a base on which the student will construct further knowledge about the etiology, pathogenesis, pr(Even)tion of diseases and the principles of their therapeutics and management.

**Module outcomes:**

## **Knowledge**

Each student will be able to acquire knowledge about the basic concepts of diseases in the community, use technology based medical education and to appreciate concepts & importance of

- **Research**
- **Biomedical ethics**
- **Family medicine**
- **Artificial Intelligence Skills**

Interpret and analyze various practical & practices of clinical sciences.

## **Attitude**

Demonstrate a professional attitude. Team building spirit and good communication skills.

This module will run in 4 weeks. The content covered will be made visible through introductory titles of the teaching sessions. Instructional strategies are given in the timetable and learning objectives are briefed in study guides. Study guides will also be available on university website.



## 3-Terms & Abbreviations

### Contents

- Domains of Learning
- Teaching and Learning Methodologies/Strategies
  - ✦ Large Group Interactive Session (LGIS)
  - ✦ Small Group Discussion (SGD)
  - ✦ Self-Directed Learning (SDL)
  - ✦ Case Based Learning (CBL)
  - ✦ Peer assisted learning (PAL)
  - ✦ Clinical / skill lab

### Tables and 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

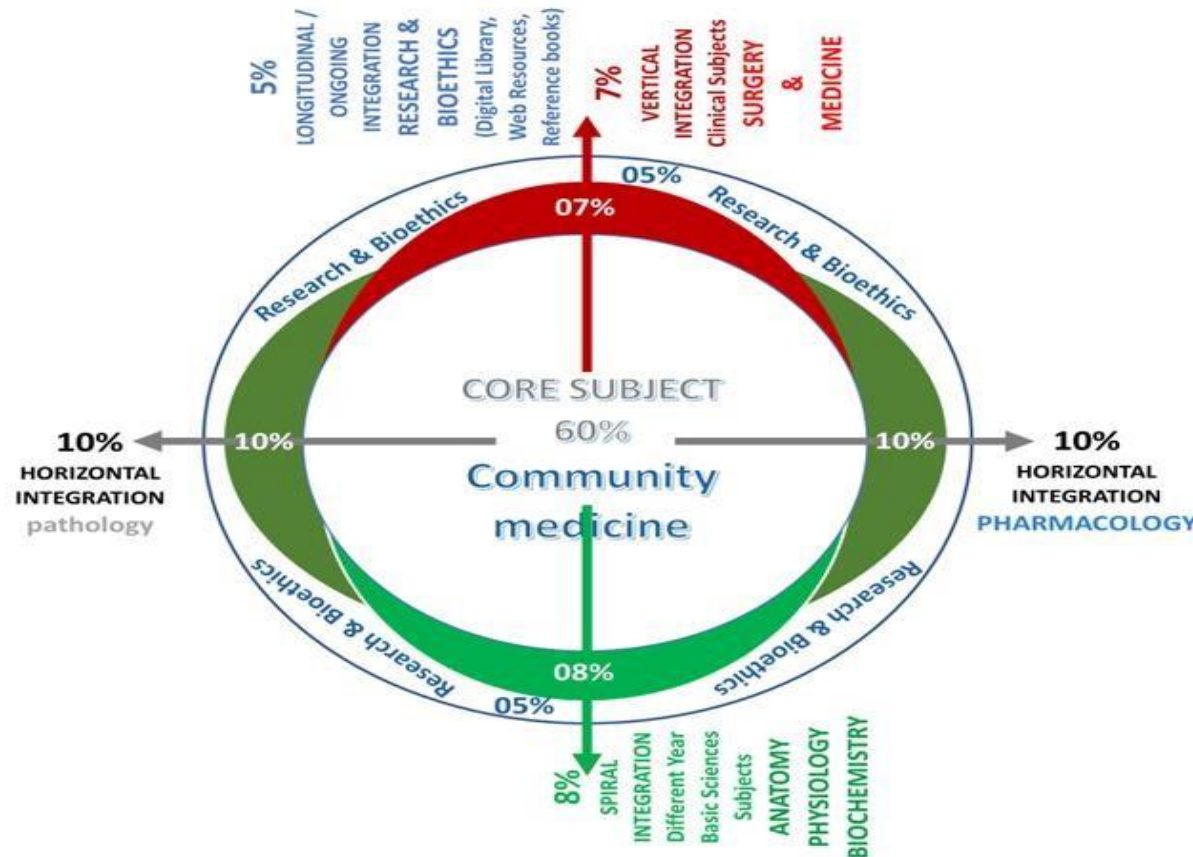
## 4- Domains Of Learning According To Blooms Taxonomy

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

# 5-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.



4 <sup>th</sup> Year community medicine LGIS (~30 slides)	
Core Subject – 60% (≈ 18-20 slides)	
Community medicine (≈ 18-20 slides)	
Horizontal Integration – 20% (≈ 5-6 slides)	
Same Year Subjects	<ul style="list-style-type: none"> <li>Pharmacology (10%) (≈ 2-3 slides)</li> <li>Pathology (10%) (≈ 2-3 slides)</li> </ul>
Vertical Integration – 07% (≈ 2-3 slides)	
Clinical Subjects	<ul style="list-style-type: none"> <li>Medicine (3-5%) (≈ 1-2 slides)</li> <li>Surgery (3-5%) (≈ 1-2 slides)</li> </ul>
Spiral Integration – 08% (≈ 2-3 slides)	
Different Year Basic Sciences Subjects	<ul style="list-style-type: none"> <li>Anatomy (1-3%) (≈ 1-2 slides)</li> <li>Physiology (1-3%) (≈ 1-2 slides)</li> <li>Biochemistry (1-3%) (≈ 1-2 slides)</li> </ul>
Longitudinal / Ongoing Integration – 05% (≈ 1-2 slides)	
Research & Bioethics (≈ 1-2 slides)	

## 6-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.

### Standardization of teaching content in SGD

S. No	Contents	Approximate share in %
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%

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

## **7-Self Directed Learning (SDL)**

- Self- directed learning is a process where students take primary charge of planning, continuing, and evaluating their learning experiences.
- Home based / time assignment.
- Learning objectives are briefed in study guide
- Learning resources including pages, book names etc. or link / web site
- Assessment: it will be online on LMS on a predefined schedule

## **Case Based Learning (CBL)**

- It's a learner centered model which engages students in discussion of specific scenarios that resemble typically are real world examples.
- Case scenario will be given to the students
- Will engage students in discussion of specific scenarios that resemble or typically are real-world examples.

## **8-Learning Objectives, Teaching Strategies & Assessments**

Learning objectives are given to the students and will be based on:

- Purpose to provide students with a relevant opportunity to see theory in practice • Require students to analyze data in order to reach a conclusion.
- Develop analytic, communicative and collaborative skills along with content

## Contents of the Module

1. Horizontally Integrated Basic Sciences (Pharmacology, Pathology, Community Medicine)
2. Large Group Interactive Session (LGIS):
  - i. Pathology
  - ii. Community Medicine
  - iii. Pharmacology
  - iv. Medicine
  - v. Surgery
  - vi. Gynae & Obs
  - vii. pediatrics
3. Small Group Discussions (SGD)
  - i Pathology
  - ii. Community Medicine
  - iii. Pharmacology
4. Self-Directed Topic, Learning Objectives & References (SDL)
  - i Pathology
  - ii. Community Medicine
  - iii. Pharmacology
5. Peer Assisted Learning (PAL)

Community medicine
6. Skill Lab

Pathology  
Pharmacology
7. Case Based Learning (CBL)
  - i. Pathology
  - ii. Pharmacology
8. Wards, operation theatres
  - i. Surgery
  - ii. Medicine
  - iii. Gynae& obs

### **Horizontally Integrated Basic Sciences**

S no	Subjects	Teaching hours without practical/PAL
1	Pathology (LGIS+SGD+CBL)	13
2	Community medicine (LGIS+SGD)	7
3	Pharmacology (LGIS+SGD+CBL)	13



## Learning Objectives of Pathology (LGIS)

Topic	Contents Outlines (Major Topics & Sub- Topics)	Learning objectives After The Session Students Will Be Able To:	Learning domain	Teaching strategy	Assessment tool
<b>Hypothyroidism and Thyroid Tumors</b>	<ul style="list-style-type: none"> <li>• Pathophysiology of thyroid gland</li> <li>• Introduction types, causes &amp; sign symptoms of hypothyroidism</li> <li>• Pathophysiology of Hashimoto's</li> <li>• Thyroid function test</li> </ul>	The students should be able to 1) explain hypothyroidism 2) classify and explain benign and malignant neoplasms of thyroid	C2  C2	LGIS	MCQs, SEQs, OSPE Viva
<b>Hyperthyroidism</b>	<ul style="list-style-type: none"> <li>• Introduction types, causes &amp; sign symptoms of hyperthyroidism</li> <li>• Pathophysiology of Grave's disease</li> <li>• Thyroid function test</li> </ul>	The students should be able to 1) compare and differentiate between hyperthyroidism and hypothyroidism 2) to describe pathophysiology of graves' disease.	C3	LGIS	MCQs, SEQs, OSPE Viva
<b>Diabetics mellitus</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• , classification &amp; causes of Diabetes Mellitus</li> <li>• Plasma glucose regulation</li> <li>• Pathophysiology of DM</li> <li>• Investigation for DM</li> </ul>	<ul style="list-style-type: none"> <li>• Students should be able to</li> <li>1) classify Diabetes Mellitus</li> <li>2) Diagnose, and explain pathogenesis of diabetes along with glucose homeostasis.</li> </ul>	C2 C3	LGIS	MCQs, SEQs, OSPE Viva
<b>Adrenal Gland/ Hyperadrenalism</b>	<ul style="list-style-type: none"> <li>• Introduction to <b>Hyperadrenalism</b></li> <li>• Types</li> <li>• Investigation of <b>Hyperadrenalism</b></li> </ul>	Students should be able to 1) explain pathophysiology of Cushing syndrome 2) explain the pathophysiology of hyperaldosteronism and adrenogenital syndromes	C2 C3	LGIS	MCQs, SEQs, OSPE Viva
<b>Hypoadrenalism and adrenal tumors</b>	<ul style="list-style-type: none"> <li>• Introduction to hypoadrenalism</li> <li>• Types</li> <li>• Investigation of hypoadrenalism</li> </ul>	Students should be able to 1) describe the pathophysiology of Addison's disease and other hypo adrenal disorders 2) To describe the pathophysiology and microscopic features for diagnosis of adrenal cortical adenoma and carcinoma	C2, C3	LGIS	MCQs, SEQs, OSPE Viva

## Learning Objectives of Community Medicine (LGIS)

Topic	Contents Outlines (Major Topics & Sub- Topics)	Learning objectives After the Session Students Will Be Able To:	Learning domain	Assessment tool
Non-Communicable Disease introduction (Hypertension ,CHD)	<ul style="list-style-type: none"> <li>• Epidemiology of</li> <li>• Hypertension, CHD</li> <li>• Prevention of hypertension,CHD</li> <li>• Classification</li> <li>• Rules of halves</li> </ul>	<ul style="list-style-type: none"> <li>• Explain criteria of Chronic Non-Communicable diseases. (NCDs)</li> <li>• Appraise the burden of NCDs in inter- &amp; national context.</li> <li>• Describe list of major NCDs of the region.</li> <li>• Describe common Risk Factors of NCDs.</li> <li>• Explain gaps in knowledge in natural history of NCDs &amp; General preventive approaches</li> <li>• Explain epidemiology, prevention &amp; control strategies for cardiovascular diseases (CHDs)</li> <li>• Explain epidemiology, prevention &amp; control strategies for Hypertension</li> <li>• Explain rules of halves &amp; tracking of Blood Pressure strategy (hypertension)</li> </ul>	<p>C2 C2</p> <p>C2 C2 C2</p> <p>C3</p> <p>C3 C3</p>	MCQs, SEQs, OSPE, Viva
Non-Communicable Disease (Diabetes, obesity)	<ul style="list-style-type: none"> <li>• Epidemiology of</li> <li>• diabetes &amp; obesity</li> <li>• Prevention &amp; control of diabetes &amp; obesity</li> <li>• Classification of diabetes &amp; obesity &amp;</li> <li>• Assessment of</li> <li>• Body mass index</li> </ul>	<ul style="list-style-type: none"> <li>• Describe the risk factors and their importance in causation of diabetes &amp; obesity</li> <li>• Apprehend the burden of diabetes &amp; in Pakistan</li> <li>• Classify diabetes &amp; obesity</li> <li>• Define &amp; Measure obesity via different methods of obesity assessment</li> <li>• Calculate body mass index and interpret the results</li> <li>• Recommend approaches to prevention and control of diabetes and obesity in community</li> </ul>	<p>C2</p> <p>C2 C2 C3 C3</p>	MCQs, SEQs, OSPE, Viva
Non-Communicable Diseases (Cancer)	<ul style="list-style-type: none"> <li>• Epidemiology of</li> <li>• cancers</li> <li>• Prevention &amp; control of cancers</li> <li>• Warning signs of</li> <li>• cancer</li> </ul>	<ul style="list-style-type: none"> <li>• Differentiate categories of cancers</li> <li>• Identify epidemiology of cancers</li> <li>• recommend the approaches for prevention of cancers in the community</li> </ul>	<p>C2 C2 C3</p>	MCQs, SEQs, OSPE Viva
Health care delivery system	<ul style="list-style-type: none"> <li>• Objectives, components &amp; models of Health care system</li> </ul>	<ul style="list-style-type: none"> <li>• Define health system</li> <li>• Enlist health system models</li> <li>• Comprehend components of healthcare delivery system</li> <li>• Illustrate the functions and objectives of health system</li> </ul>	<p>C1 C1 C3 C2</p>	MCQs, SEQs, OSPE Viva

Health care delivery system of Pakistan	<ul style="list-style-type: none"> <li>Levels and functions of healthcare system</li> <li>Tiers &amp; functions of healthcare system of Pakistan</li> </ul>	<ul style="list-style-type: none"> <li>Describe the levels of health care system</li> <li>Elaborate the healthcare services available at all levels of healthcare system</li> <li>Describe the tiers of health care system of Pakistan</li> <li>Discuss the functions of healthcare system of Pakistan</li> </ul>	C2 C2 C3 C2	MCQs, SEQs, OSPE Viva
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## Learning Objectives of Pharmacology (LGIS)

Topic	Contents Outline & Sub- Topics)	Learning Objectives	Learning Domain	Assessment Tool
Anti-thyroid Drugs I	<ul style="list-style-type: none"> <li>Thyroid preparations</li> </ul>	<ul style="list-style-type: none"> <li>Describe different Thyroid Preparations</li> <li>Describe the drugs that block each step of thyroid hormone synthesis</li> <li>Classify Anti-thyroid Drugs</li> </ul>	C1 C2 C2	MCQ/SEQ
Anti-thyroid Drugs II	<ul style="list-style-type: none"> <li>Mechanism of action</li> <li>Adverse effects</li> <li>Use of beta blockers in hypothyroidism</li> </ul>	<ul style="list-style-type: none"> <li>Describe the mechanism of action &amp; adverse effects of the groups of anti-thyroid drugs</li> <li>Explain the use of Beta Blockers in the treatment of Hyperthyroidism</li> <li>Enumerate the uses of Anti-thyroid Drugs</li> <li>Explain the rationale for use of different drugs in thyroid storm</li> </ul>	C2 C2 C2 C2	MCQ/SEQ
Drugs that Affect Bone Mineral Homeostasis I	<ul style="list-style-type: none"> <li>Principal hormonal Regulators</li> <li>Pharmacokinetics and pharmacodynamics of vitamin d</li> </ul>	<ul style="list-style-type: none"> <li>Enumerate principal hormonal regulators of bone mineral homeostasis</li> <li>Explain pharmacokinetics and pharmacodynamics of Vitamin D</li> <li>Enumerate non hormonal agents affecting bone mineral homeostasis</li> </ul>	C2 C2 C2	MCQ/SEQ
Drugs Used in Diabetes I	<ul style="list-style-type: none"> <li>Oral hypoglycemic</li> <li>Sulfonylureas</li> <li>Meglitinides</li> </ul>	<ul style="list-style-type: none"> <li>Classify Oral Hypoglycemic</li> <li>Describe the mechanism of action of Sulfonylureas</li> <li>Compare first- and second-generation Sulfonylureas</li> <li>Describe adverse effects of sulfonylureas</li> <li>Describe the mechanism of action of Meglitinides</li> <li>Compare Sulfonylureas &amp; Meglitinides</li> </ul>	C2 C2 C2 C2 C2 C2 C2	MCQ/SEQ

Drugs used in diabetes II	<ul style="list-style-type: none"> <li>• Biguanides</li> <li>• Alpha-glucosidase inhibitors</li> <li>• Thiazolidinediones</li> <li>• Amylin analogs</li> </ul>	<ul style="list-style-type: none"> <li>• Discuss the mechanism of action &amp; adverse effects of Biguanides</li> <li>• Differentiate between Sulfonylureas and Biguanides</li> <li>• Discuss the mechanism of action &amp; adverse effects of Alpha-Glucosidase Inhibitors</li> <li>• Discuss the mechanism of action &amp; adverse effects of Thiazolidinedione</li> <li>• Describe the mechanism of action &amp; adverse effects of Amylin analogs</li> <li>• Describe the mechanism of action &amp; adverse effects of GLP-1 analogs and Gliptins</li> <li>• Discuss uses of Oral Anti-diabetics</li> </ul>	<p>C2</p> <p>C2</p> <p>C2</p> <p>C2</p> <p>C2</p> <p>C2</p> <p>C2</p> <p>C3</p>	MCQ/SEQ
Drugs used in diabetes III	<ul style="list-style-type: none"> <li>• Insulin</li> </ul>	<ul style="list-style-type: none"> <li>• Classify Insulins</li> <li>• Compare animal &amp; human insulins</li> <li>• Discuss the kinetics of different insulins with clinical significance</li> <li>• Describe the uses &amp; adverse effects of Insulins</li> <li>• Describe insulin resistance</li> </ul>	<p>C1</p> <p>C2</p>	MCQ/SEQ
Corticosteroid I	<ul style="list-style-type: none"> <li>• Classification</li> <li>• Mechanism of action</li> </ul>	<ul style="list-style-type: none"> <li>• Classify corticosteroids</li> <li>• Describe the mechanism of action of</li> </ul>	<p>C1</p>	MCQ/SEQ
Corticosteroid II	<ul style="list-style-type: none"> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Corticosteroids</li> <li>• Describe the actions of glucocorticoids</li> <li>• Describe the Uses of Corticosteroids</li> </ul>	<p>C2</p>	
Corticosteroid III	<ul style="list-style-type: none"> <li>• Uses</li> <li>• Adverse effects</li> <li>• Contraindications</li> </ul>	<ul style="list-style-type: none"> <li>• Describe the adverse effects of Corticosteroids</li> <li>• Justify the tapering off of corticosteroids</li> <li>• Describe the contraindications of corticosteroids</li> </ul>	<p>C2</p> <p>C3</p> <p>C2</p>	MCQ/SEQ

## Small Group Discussion – Pathology (SGDs)

Demonstration	Contents Outlines (Major Topics & Sub- Topics)	Learning objectives After the Session Students Will Be Able To:	Learning domain	Teaching strategy	Assessment tool
<b>Disorders of Post-Pituitary Hormones</b>	<ul style="list-style-type: none"> <li>• Introduction to post pituitary gland and hormones secreted</li> <li>• Diseases /disorders of post pituitary gland</li> <li>• Investigations</li> </ul>	<ul style="list-style-type: none"> <li>• explain hypopituitarism and posterior pituitary gland diseases</li> </ul>	C2	SGD	MCQs, SEQs, OSPE Viva
<b>Parathyroid Disorders</b>	Introduction to parathyroid disorders and its Investigations	<ul style="list-style-type: none"> <li>• explain Parathyroid Disorders, clinical features and pathophysiology</li> </ul>	C2	SGD	MCQs, SEQs, OSPE Viva
<b>Parathyroid Adenoma/carcinoma</b>	Introduction to parathyroid adenoma /carcinoma, clinical features, pathophysiology and its Investigations	<ul style="list-style-type: none"> <li>• explain Parathyroid Adenoma/carcinoma, clinical features and pathophysiology</li> </ul>	C2	SGD	MCQs, SEQs, OSPE Viva
<b>Pancreatic tumors, Neuroendocrine</b>	Introduction to Pancreatic tumors, Neuroendocrine, clinical features, pathophysiology and its Investigations	<ul style="list-style-type: none"> <li>• explain Pancreatic tumors, Neuroendocrine diseases</li> </ul>	C3	SGD	MCQs, SEQs, OSPE Viva
<b>Disorders of Adrenal medulla &amp; MEN Syndrome</b>	Introduction to adrenal medulla gland Diseases /disorders of adrenal medulla Features of MEN, S syndrome Investigations	<ul style="list-style-type: none"> <li>• describe the pathophysiology and microscopic features of pheochromocytoma</li> <li>• explain the diagnostic features of MEN 1 and MEN 2 syndromes.</li> </ul>	C2  C3	SGD	MCQs, SEQs, OSPE Viva

## Small Group Discussion - Community Medicine (SGDs)

Topic	Contents Outlines (Major Topics & Sub-Topics)	Learning objectives At the end of session student will be able to:	Learning domain	Assessment tool
Health programs of Pakistan	<ul style="list-style-type: none"> <li>• Malaria control program</li> <li>• TB control program</li> <li>• AIDS control program</li> <li>• Hepatitis control program</li> <li>• National program of family planning</li> </ul>	<ul style="list-style-type: none"> <li>• Explain program and National Health programs.</li> <li>• Enlist &amp; elaborate important national health programs</li> <li>• Discuss the key points regarding National Program for family planning and primary healthcare, EPI, AIDs Control program, Hepatitis control</li> </ul>	C2 C2 C3	MCQs, SEQs, OSPE and Viva Voce

## Small Group Discussion -Pharmacology (SGD)

Topic	Learning objectives At the end of sessions, students will be able to:	Learning domain	Assessment tool
Mineralocorticoid Antagonist	<ul style="list-style-type: none"> <li>• Enumerate mineralocorticoid antagonists</li> <li>• Describe the mechanism of action of mineralocorticoid antagonists</li> </ul>	C2 C2	MCQ
Glucocorticoid Antagonists	<ul style="list-style-type: none"> <li>• Enumerate glucocorticoid antagonists</li> <li>• Describe the mechanism of action of glucocorticoid antagonists</li> </ul>	C2 C2	MCQ

## Case Based Learning Pathology CBL

TOPIC	Contents Outlines (Major Topics & Sub-Topics)	Learning objectives At the end of session students will be able to:	Learning Domain	Assessment tool
Complications of Diabetes Mellitus	Pathophysiology diagnosis and complications of diabetes mellitus	<ul style="list-style-type: none"> <li>• Describe in detail the complications, pathological findings and organ involvement in diabetes</li> <li>• Explain the lab investigations required to diagnose diabetes</li> </ul>	C2 C2	MCQs
Pineal gland	Pathophysiology, functions, diagnosis and investigations	<ul style="list-style-type: none"> <li>• Describe in detail the pathological findings</li> <li>• Explain the lab investigations required for diagnose</li> </ul>	C2 C2	MCQs

## Case Based Learning Pharmacology (CBL)

Topic	Learning objectives At the end of the session students will be able to:	Learning Domain	Assessment tool
Hypothyroidism	<ul style="list-style-type: none"> <li>• Describe different Thyroid Preparations</li> <li>• Dose adjustment in different scenarios</li> </ul>	C2 C3	PBQ / Scenario Based Questions
Corticosteroid	<ul style="list-style-type: none"> <li>• Classify corticosteroids</li> <li>• Describe the mechanism of action of corticosteroids</li> <li>• Describe the actions of glucocorticoids</li> <li>• Describe the Uses of Corticosteroids</li> <li>• Describe the adverse effects of Corticosteroids</li> <li>• Justify the tapering off of corticosteroids</li> <li>• Identify the contraindications of corticosteroids</li> </ul>	C2 C2  C2 C2 C2 C3	PBQ / Scenario Based Questions
Diabetes mellitus	<ul style="list-style-type: none"> <li>• Classify the drugs used in the management of DM</li> <li>• Identify the drug group preferred in the given case</li> </ul>	C2 C3	PBQ / Scenario Based Questions



## Skill Lab- Pathology

Topic	Contents Outlines (Major Topics & Sub-Topics)	Learning objectives At the end of session student will be able to:	Learning Domain	Assessment tool
Thyroiditis, Multinodular goiter	Classify and identify various types of thyroiditis & Multinodular goiter	<ul style="list-style-type: none"> <li>• Classify different types of thyroiditis</li> <li>• Identify gross features and microscopic features such as Massive lymphoplasmacytic infiltration with lymphoid follicles formation and large active germinal center in Hashimoto's thyroiditis</li> <li>• Explain the gross features asymmetrically enlarged gland with Irregular nodules and microscopic features such as varied sized dilated follicles with hyperplastic epithelium in multinodular goiter and grave's disease</li> <li>• Identify microscopic features such as closely packed small follicles lined by cuboidal epithelium, within a fibrous capsule in follicular adenoma</li> <li>• Identify gross and microscopic features as complex, branching, randomly oriented papillae with fibrovascular cores and specific nuclear features in papillary carcinoma of thyroid</li> </ul>	C1 C2  C2  C2 C2	OSPE/OSCE
Chronic pancreatitis & pancreatic carcinoma	Pancreatic pathologies and differences between them	<ul style="list-style-type: none"> <li>• Identify and explain the gross and microscopic features of chronic pancreatitis</li> <li>• Differentiate between normal pancreas and pancreatic adenocarcinoma /pancreatic carcinoma.</li> <li>• Differentiate between pancreatic carcinoma and chronic pancreatitis</li> </ul>	C2  C3 C3	OSPE/OSCE
Parathyroid adenoma/carcinoma	Pathogenesis of parathyroid adenoma	<ul style="list-style-type: none"> <li>• Identify and explain the gross and microscopic features of pituitary adenoma</li> <li>• Identify and explain the gross and microscopic features of parathyroid adenoma and how to differentiate it from carcinoma</li> </ul>	C2  C3	OSPE/OSCE

## Skill Lab Pharmacology

Code	Topic	Learning objectives At the end of session student will be able to:	Learning domain	Assessment tool
Practical	P-Drug & Prescription writing	P -Drug and prescription writing on <ul style="list-style-type: none"> <li>Diabetes Mellitus type II</li> <li>Graves' Disease</li> <li>Adrenal Insufficiency</li> </ul>	C2	OSPE

## Self-directed learning sessions Self-Directed Learning (SDL) Pathology

SR. NO.	TOPIC	LEARNING OUTCOMES At the end of session students will be able to:	REFERENCE
01	contributions of the endocrine system to homeostasis	<ul style="list-style-type: none"> <li>Describes the effects of endocrine system on homeostasis.</li> </ul>	Robin Basic Pathology 10 <sup>th</sup> Edition Chapter Endocrine System Page: 749
02	Summarize the site of production, regulation, thyroid gland	<ul style="list-style-type: none"> <li>Discuss steps of production and regulation of Thyroid hormone</li> </ul>	Robin Basic Pathology 10 <sup>th</sup> Edition Chapter Endocrine System Page: 755 – 756
03	Investigations of a case of goiter	<ul style="list-style-type: none"> <li>Know basic laboratory investigations of a case of Goiter</li> </ul>	Robin Basic Pathology 10 <sup>th</sup> Edition Chapter Endocrine System Page: 762 – 763

04	Investigations of Diabetes Mellitus	<ul style="list-style-type: none"> <li>Know basic laboratory investigations of a case of Diabetes Mellitus</li> </ul>	Robin Basic Pathology 10 <sup>th</sup> Edition Chapter Endocrine System Page: 772
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## Self-Directed Learning Pharmacology SDL

TOPIC	LEARNING OUTCOMES At the end of session students will be able to:	REFERENCE
Post Covid incidence of thyroid diseases and their pharmacological treatment	<ul style="list-style-type: none"> <li>define hypothyroidism</li> <li>Correlate lab results of thyroid function tests and patient's symptoms</li> <li>Discuss pathophysiology of thyroid disease in association with Covid</li> <li>Discuss the role of drugs used for hypothyroidism in post Covid patients</li> </ul>	<p>Thyroid and COVID-19: a review on pathophysiological, clinical and organizational aspects  <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7992516/#:~:text=Thyroid%20and%20COVID%2D19%3A%20a%20review%20on%20pathophysiological%2C%20clinical%20and%20organizational%20aspects">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7992516/#:~:text=Thyroid%20and%20COVID%2D19%3A%20a%20review%20on%20pathophysiological%2C%20clinical%20and%20organizational%20aspects</a></p> <p>The Association Between COVID-19 and Thyroxine Levels: A Meta-Analysis  <a href="https://www.frontiersin.org/articles/779692">https://www.frontiersin.org/articles/779692</a></p>
Bisphosphonates and bone mineral diseases	<ul style="list-style-type: none"> <li>Classify drugs used for bone mineral diseases</li> <li>Describe mechanism of action and uses of bisphosphonates</li> <li>Describe adverse effects of bisphosphonates</li> </ul>	<p>The Effect of Bisphosphonates on Fracture Healing Time and Changes in Bone Mass Density:            METAAnalysis  <a href="https://www.frontiersin.org/articles/10.3389/fendo.2021.688269/full#:~:text=10.3389/fendo.2021.688269-,The%20Effect%20of%20Bisphosphonates%20on%20Fracture%20Healing%20Time%20and%20Changes%20in">https://www.frontiersin.org/articles/10.3389/fendo.2021.688269/full#:~:text=10.3389/fendo.2021.688269-,The%20Effect%20of%20Bisphosphonates%20on%20Fracture%20Healing%20Time%20and%20Changes%20in</a></p>
Nuclear receptors coactivators	<ul style="list-style-type: none"> <li>Describe Steroid receptor signaling mechanisms</li> <li>Discuss the role of coactivators in steroid receptor functioning</li> <li>Enumerate the drugs acting through steroid receptor activation</li> </ul>	<p>Nuclear Integration of Glucocorticoid Receptor and Nuclear Factor-<math>\kappa</math>B Signaling by CREB-binding Protein and Steroid Receptor Coactivator-1*  <a href="https://www.jbc.org/article/S0021-9258(19)59316-4/fulltext#:~:text=Nuclear%20Integration%20of%20Glucocorticoid%20Receptor%20and%20Nuclear%20Factor%2D%CE%BA%20Signaling%20by%20CREB%2Dbinding%20Protein%20and%20Steroid%20Receptor%20Coactivator%2D1*">https://www.jbc.org/article/S0021-9258(19)59316-4/fulltext#:~:text=Nuclear%20Integration%20of%20Glucocorticoid%20Receptor%20and%20Nuclear%20Factor%2D%CE%BA%20Signaling%20by%20CREB%2Dbinding%20Protein%20and%20Steroid%20Receptor%20Coactivator%2D1*</a></p>
DPP-4 INHIBITORS AND PANCREATIC CARCINOMA	<p>Risk of dipeptidyl peptidase-4 (DPP-4) inhibitors on sitespecific cancer: A systematic review and meta-analysis  <a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/dmrr.3004">https://onlinelibrary.wiley.com/doi/abs/10.1002/dmrr.3004</a></p>	<p>Dipeptidyl Peptidase-4 Inhibitor-Associated Pancreatic Carcinoma  <a href="https://journals.sagepub.com/doi/abs/10.1177/1060028015610123?journalCode=aopd#:~:text=Dipeptidyl%20Peptidase%2D4%20Inhibitor%E2%80%93Associated%20Pancreatic%20Carcinoma">https://journals.sagepub.com/doi/abs/10.1177/1060028015610123?journalCode=aopd#:~:text=Dipeptidyl%20Peptidase%2D4%20Inhibitor%E2%80%93Associated%20Pancreatic%20Carcinoma</a></p>

## Self-Directed Learning community medicine (SDL)

#	Topics	Learning objectives. Students will be able to ...	Learning resource
1	Epidemiology of Stroke	<ul style="list-style-type: none"> <li>Describe problem statement of stroke.</li> <li>Risk factors of stroke</li> <li>Strategies for stroke control in population</li> </ul>	K Park Ed. 27 <sup>th</sup> (pg. 377-78)
2	Epidemiology of Rheumatic Heart disease (RHDs)	<ul style="list-style-type: none"> <li>Describe problem statement of RHDs.</li> <li>Epidemiological factors of RHDs.</li> <li>WHO criteria for diagnosis of RHDs</li> <li>Approaches for Pr(Even)tion of RHDs in population</li> </ul>	K Park Ed. 27 <sup>th</sup> (pg. 378-81)
3	Adolescent health	<ul style="list-style-type: none"> <li>Discuss normal adolescent development, its impact on health</li> <li>Counselling of adolescents with specific conditions</li> <li>Identification of normal growth and pubertal development</li> <li>Manage common health &amp; mental health conditions, nutrition related disorders</li> <li>Identify signs of substance use and substance use disorders</li> </ul>	K Park Ed. 27 <sup>th</sup> (pg. 670-73)

## Peer Assisted Learning (PAL) IUGRC

Indicators of accomplishment Prior readings / assigned work	Learning objectives/ competencies	Learning outcomes By the end of lecture student will be able to:	Assessment strategy
<b>Endo session 1</b> <b>Preparing students for students</b> <b>Report writing and oral</b> <b>presentation</b>	<ul style="list-style-type: none"> <li>Interpret &amp; apply basic principles of <b>manuscript writing</b> of research report</li> <li>Perceive authorships requirements or rules of drafting manuscript of a research report for publication in indexed journal</li> <li>Write discussion section of draft</li> <li>Report research as oral presentation and poster presentation according to standard guidelines</li> <li>Finalization of preparation of PowerPoint presentation for final research day</li> <li>practice basic communication skills</li> <li>-</li> </ul>	<p>At the end of session students should be able to;</p> <ul style="list-style-type: none"> <li>-explain principles of research manuscript writing for publication</li> <li>-write report for oral presentation               <ul style="list-style-type: none"> <li>- reporting on poster</li> <li>- explain rules of discussion on results of study</li> <li>- clarify types of citations included in discussion section</li> <li>- explain conclusion, recommendation and acknowledge part of research report.</li> </ul> </li> </ul>	<ol style="list-style-type: none"> <li>MCQ in each block exam</li> <li>Viva exam at the end of the session</li> </ol>
<b>Edo session</b> <b>Research presentations</b>			

## Vertically Integrated Clinical Subjects

### Learning Objectives of Surgery (LGIS)

Topic of The Session	Contents Outlines (Major Topics & SubTopics)	Learning Objectives At the end of session student will be able to:	Learning Domain	Assessment tools
Surgical intervention of parathyroid gland	Surgical anatomy of parathyroid gland, managing patient with parathyroid pathology	<ul style="list-style-type: none"> <li>Discuss the surgical anatomy of parathyroid gland</li> <li>Enlist diseases treatable with surgery</li> <li>Discuss briefly parathyroid adenoma, hyperplasia and carcinoma</li> <li>Outline pre-operative work up for parathyroid gland</li> <li>Approach towards a patient with parathyroid pathology.</li> </ul>	C2 C1 C2  C2 C2	MCQ/SEQ
Surgical intervention of pancreatic tumor	Surgical diseases of pancreas and their management	<ul style="list-style-type: none"> <li>Discuss the surgical anatomy of pancreas</li> <li>Explain the prevention of pancreatic tumors</li> <li>Enlist the surgical diseases of pancreas</li> <li>Approach towards a patient with suspected SOL in pancreas</li> <li>Do pre-operative preparation of patient with SOL</li> <li>Elaborate the protocol for surgery of distal pancreas</li> </ul>	C2 C2 C1 C3 C2 C3	MCQ/SEQ
Surgical intervention of adrenal gland	Surgical anatomy and surgical intervention of adrenal gland	<ul style="list-style-type: none"> <li>Discuss the surgical anatomy of adrenal gland</li> <li>Approach adrenal towards a patient with incidental SOL in gland</li> <li>Describe pheochromocytoma</li> <li>Illustrate pre-operative workup for pheochromocytoma</li> <li>Prepare a patient for pheochromocytoma</li> <li>Discuss Surgical procedure for pheochromocytoma including minimally invasive surgery</li> </ul>	C2 C2  C2 C2 C3 C2	MCQ/SEQ
Surgical intervention of Thyroid gland	Surgical anatomy of thyroid, diseases of thyroid and their management	<ul style="list-style-type: none"> <li>Briefly describe anatomy of the thyroid gland and vascular supply</li> <li>Enlist important clinical signs and symptoms of different benign and malignant diseases of thyroid</li> <li>Approach towards a patient with thyroid pathology.</li> <li>Outline pre-operative work up for thyroid gland</li> <li>Managing patient with thyroid pathology</li> <li>Enlist the surgical procedure of thyroid</li> </ul>	C2  C2  C2  C3 C3	MCQs /SEQs

			C2	
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### Learning Objectives of Medicine (LGIS)

Topic Of The Session	Contents Outlines (Major Topics & SubTopics)	Learning Objectives At the end of session student will be able to:	Learning Domain	Assessment tools
Acromegaly	Clinical features & investigations of acromegaly along with its management	<ul style="list-style-type: none"> <li>Identify clinical presentation and physical findings in acromegaly.</li> <li>Describe laboratory workup of acromegaly.</li> <li>Explain various therapeutic options in management of acromegaly</li> <li>Recall clinical conditions associated with acromegaly.</li> </ul>	C2 C2 C2 C2	MCQ/SEQ
Diabetes Insipidus	Clinical features & management of diabetes insipidus	<ul style="list-style-type: none"> <li>Explain the clinical presentation and physical findings in DI.</li> <li>Differentiate between central DI and nephrogenic DI and describe etiology of both types.</li> <li>Describe importance of water deprivation test in diagnosis and differentiation between both types of DI</li> <li>Discuss various treatment options available for management of diabetes insipidus.</li> </ul>	C2 C3 C2 C2 C2	MCQ/SEQ
Hypothyroidism	Causes, C/F, investigations, treatment & complications of hypothyroidism	<ul style="list-style-type: none"> <li>Define hypothyroidism</li> <li>Discuss Causes of hypothyroidism</li> <li>Discuss clinical features (especially congenital hypothyroidism)</li> <li>Discuss lab investigations and their interpretation.</li> <li>Treatment and plan of management</li> <li>Discuss Complications and counseling aspects</li> </ul>	C1 C2 C2 C3 C2 C3	MCQ/SEQ

Hyperthyroidism Thyroid Disorder	Thyroiditis & Grave's disease Comparison of hyper and hypothyroidism	<ul style="list-style-type: none"> <li>• Compare and differentiate between hyperthyroidism and hypothyroidism</li> <li>• Explain thyroiditis and graves' disease.</li> <li>• Enlist various types of thyroid disorders.</li> <li>• Differentiate between clinical features of hyperthyroidism and hypothyroidism.</li> </ul>	C3	MCQ/SEQ
			C2 C1	MCQ/SEQ
Diabetes and Hypoglycemia		<ul style="list-style-type: none"> <li>• Enlist types of diabetes mellitus.</li> <li>• Diagnose diabetes mellitus.</li> <li>• Develop management plan for diabetes mellitus, including both pharmacological and nonpharmacological therapies.</li> <li>• Identify clinical features of hypoglycemia and discuss management plan</li> </ul>	C2 C3 C3	MCQ/SEQ
Diabetes Mellitus/DKA	C/F of diabetic ketoacidosis and its diagnosis Managing complication of DM	<ul style="list-style-type: none"> <li>• Define Diabetes ketoacidosis</li> <li>• Discuss its clinical features</li> <li>• Plan relevant investigations</li> <li>• Diagnose and manage complications of diabetes mellitus. (DKA, HONK)</li> <li>• Discuss treatment and management plan.</li> <li>• Outline DKA and its management</li> <li>• Counsel the parents.</li> <li>• Do follow-up</li> </ul>	C1 C2 C3 C3 C2 C2 C2 C3 C3 C3	MCQ/SEQ
Cushing's Syndrome and Addison's Disease	C/F, diagnosis, causes and management of Cushing's Syndrome and Addison's Disease	<ul style="list-style-type: none"> <li>• Identify clinical presentation of Cushing's disease and describe diagnostic workup and management plan of Cushing's syndrome.</li> <li>• Differentiate between Cushing's disease and syndrome.</li> <li>• Enlist various causes of Cushing's syndrome</li> <li>• Identify causes and clinical features of Addison's disease</li> <li>• Differentiate between primary and secondary Addison's disease</li> </ul>	C3 C2 C1 C2 C2	MCQ/SEQ
Hyperaldosteronism	C/F, diagnosis, causes and management of Hyperaldosteronism	<ul style="list-style-type: none"> <li>• Identify clinical presentation of Hyperaldosteronism and describe diagnostic workup and management</li> </ul>	C2 C1 C2 C2	MCQ/SEQ

### Learning Objectives of Obstetrics and Gynecology (LGIS)

Topic Of The Session	Contents Outlines (Major Topics & Sub-Topics)	Learning Objectives After The Session Students Will Be Able To:	Learning Domain	Assessment tools
Thyroid in pregnancy	C/F of thyroid disorders in pregnancy & management	<ul style="list-style-type: none"> <li>Enlist thyroid disorders during pregnancy</li> <li>Illustrate clinical presentation of thyroid disorders in pregnancy</li> <li>Discuss fetomaternal effects of thyroid disorder</li> <li>Discuss the management of these disorders</li> </ul>	C1 C2 C2 C3	MCQ/SAQ
DM in pregnancy	Diagnosing gestational diabetes & its management	<ul style="list-style-type: none"> <li>Define different types of diabetes during pregnancy</li> <li>Discuss screening for diagnosis of gestational diabetes</li> <li>Elaborate management of diabetes</li> </ul>	C1 C2 C2	MCQ/SAQ
Complications of Diabetes & Gestational diabetes	Pathophysiology diagnosis and complications of gestational diabetes	<ul style="list-style-type: none"> <li>Describe in detail the complications, pathological findings and organ involvement in diabetes and gestational diabetes</li> <li>Explain the lab investigations required to diagnose diabetes</li> </ul>	C2 C2	MCQ/SEQ

### Learning Objectives of Pediatrics (LGIS)

Topic Of The Session	Contents Outlines (Major Topics & Sub-Topics)	Learning Objectives (At the end of session students will be able to )	Learning Domain	Assessment tools
<b>Diabetes Mellitus</b>	Diabetes mellitus and its complications	<ul style="list-style-type: none"> <li>Explain pathophysiology and clinical presentation of Diabetes Mellitus</li> <li>Plan relevant investigations</li> <li>Recognize complications of diabetes mellitus</li> <li>Manage disease and its complications</li> <li>Counsel the parents and patient</li> </ul>	C2 C3 C2 C3 C3	MCQ/SAQ
<b>Hypothyroidism</b>	Hypothyroidism and its clinical presentation	<ul style="list-style-type: none"> <li>Enlist causes</li> <li>Discuss clinical presentation at various ages</li> <li>Plan, interpret Investigations and take appropriate action</li> <li>Treat and counsel the parents</li> <li>Do follow-up</li> </ul>	C1 C2 C3 C3 C3	MCQ/SAQ



### Learning Objectives of Bioethics (LGIS)

Broad topic	Major syllabus with sub-topics	Learning objectives	Learning domain	Assessment tools	Suggested reading sources
Informed consent	Discussion will cover; Prerequisites of informed consent in different situations	<p>At the end of the session students should be able to;</p> <ul style="list-style-type: none"> <li>• Recognize the importance of obtaining valid consent from a patient for investigations and treatment</li> <li>• Analyze how to proceed</li> <li>• Elucidate how to proceed if a patient is incompetent to give consent</li> <li>• Reflect when it is justifiable to refrain from obtaining patient consent</li> <li>• Formulate the decision about giving relevant information to a patient or family by a medical student/doctor</li> <li>• Critically appraise the Inappropriate and</li> <li>• Appropriate Informed Consent Form</li> </ul>	<p>C2</p> <p>C2</p> <p>C2</p> <p>C3</p> <p>C3</p>	1-2MCQs of level C1 to C3 will cover this session teachings	<p><a href="http://nbcPakistan.org.pk/assets/may16bioethicsfacilitator-book---may-16%2c-2017.pdf">http://nbcPakistan.org.pk/assets/may16bioethicsfacilitator-book--- may-16%2c-2017.pdf</a> (page 74)</p>

## Learning Objectives of Family Medicine (LGIS)

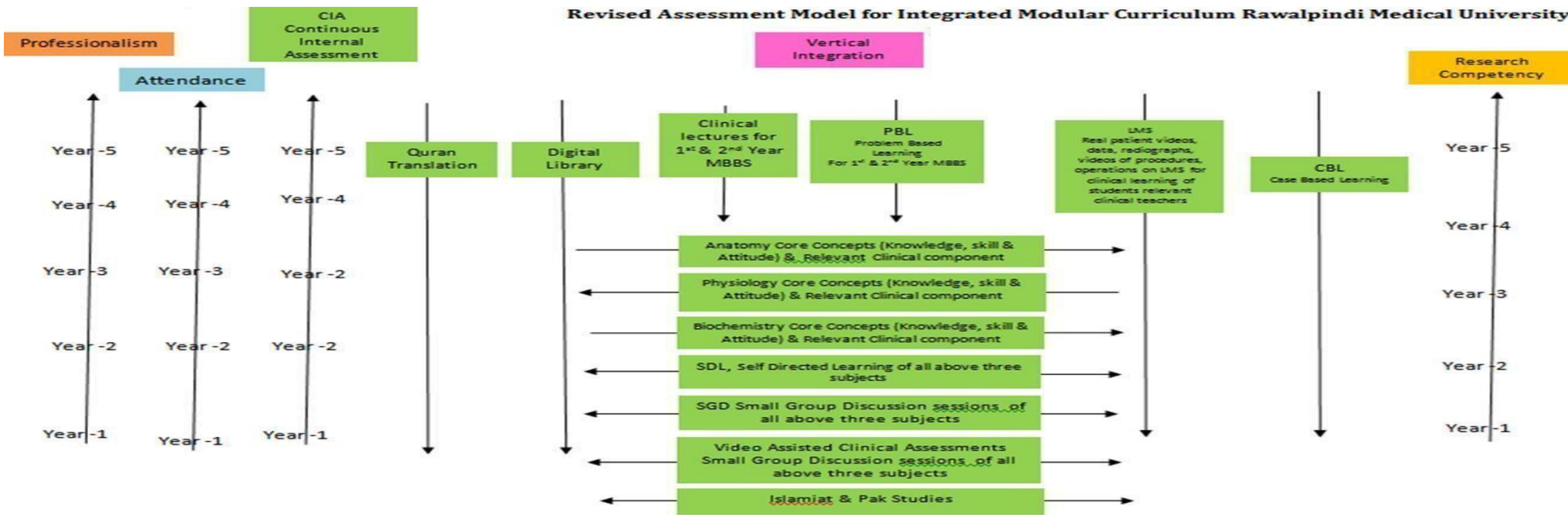
Broad topic	Major syllabus with subtopics	Learning objectives	Learning domain	Assessment tools
Core concepts of family medicine in (Noncommunicable diseases)	<p>Discussion will cover;</p> <p>Diabetes mellitus and obesity its psychological impacts on families</p>	<p>At the end of the session students should be able to;</p> <ul style="list-style-type: none"> <li>• Explain the management strategies of a diabetic patient in general practice including the psychosocial impact of disease on patient and their families</li> <li>• Describe the strategies for pr(Even)tion of diabetes mellitus and its complications</li> <li>• Identify the red-flags in a diabetic patient and appropriately refer to specialty care when required</li> <li>• Describe the aetiology, risk factors and complications of obesity</li> <li>• Explain the role of diet, exercise and anti-obesity drugs in the management of obesity and its complications</li> <li>• Identify the red-flags in an obese patient and appropriately refer to specialty care when required</li> <li>• Explain the psychosocial impact of disease on patient and their families</li> </ul>	<p>C3</p> <p>C2</p> <p>C2</p> <p>C2</p> <p>C2</p> <p>C2</p> <p>C3</p>	MCQS

## **9- Assessment Policies:**

### **CONTENTS:**

1. Assessment Plan
2. Types of Assessment
3. Modular Examinations
4. Block examinations

## Revised Assessment Model for Integrated Modular Curriculum Rawalpindi Medical University



### Horizontal Integration

#### Gauge for Continuous Internal Assessment (CIA)

Red Zone	High Alert	Yellow Zone	Green Zone	Excellent	Extra Ordinary
0 - 25%	26 - *50%	51 - 60%	61 - 70%	71 - 80%	81 - 100%

\*50% and above is Passing Marks.

#### Gauge for attendance percentage

Red Zone	High Alert	Yellow Zone-1	Yellow Zone-2	Green Zone	Excellent
0 - 25%	26 - 50%	51 - 60%	61 - 74%	*75 - 80%	81 - 100%

\*75% is eligibility criteria for appearing in professional examination.

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, SGD, LGIS (LMS).

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

#### Modular Examinations:

**Theory Paper:**

There is an 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, extended matching question, short answer questions and structured essay questions. The distribution of the questions is based on the Table of Specifications of the module.

**Viva Voce:**

Structured table viva voce is conducted including the practical content of the module.

**Block Examination**

On completion of a block which consists of two modules, there is a block examination which consists of one theory paper, viva and video assisted & practical OSPE.

**Theory Paper**

There is one written paper for each subject. The paper consists of objective type questions, extended matching question, short answer questions and structured essay questions. The distribution of the questions is based on the Table of Specifications of the module.

**Block OSPE:** 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 end of module as reflective writing & multiple-choice questions through LMS. Assessment of clinical lectures will also be on LMS. Tool for this assessment will be one best choice question.

**Summative Assessment:**

Summative assessment will be taken weekly through LMS as well as at the end of module/ block and will be subject wise

## Assessment Frequency & Time in Endocrinology Module

Endocrinology Module		Type of Assessments	Total Assessment Time			No. of Assessments	
Sr #	Types of Assessments	Nature of assessment	Assessment Time	Summative Assessment Time	Formative Assessment Time	Formative	Summative
1	Weekly LMS based assessments (pathology 20, Community Medicine 20, pharmacology 20) (60 MCQs) 60 marks	summative	60 Minutes per wk.=3hrs	15 hours	1hr 30 Minutes	02	05
3	End Module Examinations	Summative	Detailed below				
Breakup of EOM Assessment							
	i. Community medicine (5SEQs,5 SAQs, 1 EMQ & 25 MCQs) 100 marks	Summative	3 Hrs.				
	ii. Pathology (5SEQs,7 SAQs, 1 EMQ and 25 MCQs) 100 marks	Summative	3 Hrs.				
	iii. pharmacology (5SEQs,7 SAQs, 1 EMQ and 25 MCQs) 100 marks	Summative	3 Hrs.				
4	iv (video assisted OSPE) for each subject 10 stations(50 marks)	Summative	50 minutes				
	v. Ward test at the end of two weeks rotation in clinical subjects & End of clerkship C med		1 hr. 40 min				
5.	I. Reflective writing	formative	45+45=90 min				
	II. End Module LMS based MCQs (45 MCQs) 45 marks						

**Table of specifications (TOS) End of week assessment of endocrinology module  
(LMS-MCQs)**

S. No	Discipline	Type of Assessment	Number of MCQs	Cognitive domains			Marks
				C1	C2	C3	
<b>LMS 1</b>							
1.	Community medicine	summative	20	4	5	11	20
2.	Pathology	Summative	20	4	5	11	20
3.	Pharmacology	summative	20	3	5	12	20
<b>LMS II</b>							
4.	Medicine & Allied	formative	10	2	3	5	10
5.	Surgery & Allied	formative	10	2	3	5	10
6.	Bioethics, Research, AI Longitudinally running disciplines	formative	10	2	3	5	10
	Total		90	17	24	49	90

## Type of Assessment -----Community Medicine

S. No	Mode of Assessment	Type of Assessment	Schedule of Assessment	Venue	Frequency
1.	End of wk. MCQ based Test	summative	Weekly	LMS	01 x no. of weeks
2.	Theory (MCQ+SEQ+ SAQs + EMQ)	Summative	End of module	On campus	01
3.	End of module AV OSPE	Summative	End of module	On campus	01
4.	End of clerkship Exam MCQs, OSCE	summative	end of clerkship batch	On campus	01 x 2 wks

## Type of Assessment----- Pharmacology

S. No	Mode of Assessment	Type of Assessment	Schedule of Assessment	Venue	Frequency
1.	End of wk. MCQ based Test	summative	Weekly	LMS	01 x no. of weeks 01
2.	Theory (MCQ+SEQ+ SAQs + EMQ)	Summative	End of module	On campus	
3.	End of module AV OSPE	Summative	End of module	On campus	
4.	End of Skill lab Exam, MCQs	summative	End of module	On campus	01



## Types of Assessment----- Pathology

<b>S. No</b>	<b>Mode of Assessment</b>	<b>Type of Assessment</b>	<b>Schedule of Assessment</b>	<b>Venue</b>	<b>Remarks</b>
<b>1.</b>	End of wk. MCQ based test	summative	Weekly	LMS	01 x no. of weeks
<b>2.</b>	Theory (MCQ+SEQ+SAQs + EMQ)	Summative	End of module	On campus	01
<b>3.</b>	End of module AV OSPE	formative	End of module	O	01
<b>4.</b>	End of Skill lab Exam, MCQs,	summative		On campus	01

### Table of Specification for end of block Assessment (TOS)

Block Name & Order	Modules Names & Numbers	Subject	Theory			Scheme of Integration						Total marks Theory	Practical Assessment										Total marks Practical	Total Block marks	End of block LMS MCQs
			25 MCQs (1 mark each)	5+1 SAQ +EMQ (5 marks each)	5 SEQs (9marks each)	Core Subject. 70%		Hori- & Verti- Integ. 20%		*Spiral Integ. 10%			OSVE		OSPE (05 marks each)			Observed	Unobserved	Video assisted					
						19	46	4	12	2	7		Module I	Module 2	10 stations	10 stations	10 stations								
Population Medicine & reproduction	Endocrinology	Community medicine	25	25+5	45	19	46	4	12	2	7	100	10 stations												
		Pharmacology	25	25+5	45	19	46	4	12	2	7	100	10 stations												
		Pathology	25	25+5	45	19	46	4	12	2	7	100	10 stations												
	Population Med & Reproduction	Community medicine	25	25+5	45	19	46	4	12	2	7	100	Viva marks	Book marks	Viva marks	Book marks	10 stations	10 stations	10 stations		400	30			
		Pharmacology	25	25+5	45	19	46	4	12	2	7	100	45	5	45	5	50	50	10	300	400	30			
		Pathology	25	25+5	45	19	46	4	12	2	7	100	45	5	45	5	50	50	10	300	400	30			

# 11- Timetable

## Staff / Human Resource Distribution of Department of Pathology

Sr.no.	Designation	Total number of teaching staff
1	Professor	01
2	Associate professor	02
3	Assistant professor	04
4	Demonstrators	12

## Detail of Contact hours (faculty) & contact hours (students)

Sr. no.	Hours Calculation for Various Type of Teaching Strategies	Total Hours (Faculty)	Total Hours (Students)	Faculty level
1	LGIS (5). 1hrs each session (half class sessions)	2 x 5= 10 hrs.	5	Professor, associate, and assistant professors
2	SGD (5) approx. 1hrs each session. 1/4 <sup>th</sup> class	2 x 5= 10hrs.	5	Assistant professors
3	CBL (2) approx. 1hrs per session. (4 small group sessions. 1session per day)	2 x 4 = 8hrs.	2	Demonstrator (subject specialists) supervised by professional faculties
4	SDL (4)	1 x 4 = 4 hrs.	4	Demonstrators (subject specialists)
		Total: 32hrs	16 hrs	

### **Categorization of Modular Content of Pathology Department**

Category A*	Category B**	Category C***		
LGIS	LGIS	SGDs	SDL	CBL
<b>Hypothyroidism and Thyroid Tumors</b>	Adrenal Gland/ Hypoadrenalism	Disorders of Post-Pituitary Hormones	contributions of the endocrine system to homeostasis.	Complications of Diabetes Mellites
<b>Hyperthyroidism</b>	Hypoadrenalism and adrenal tumors	Disorders of Adrenal medulla & MEN Syndrome	Summarize the site of production, regulation, thyroid gland	Pineal gland
<b>Diabetics mellitus</b>		Parathyroid disorders	Investigations of a case of goiter	
		Parathyroid Adenoma /carcinoma	Investigations of Diabetes Mellitus	
		Pancreatic tumors and neuroendocrine disorders		

Category A\*: Fundamental & Complex Concepts taken by Professors, Assc Prof and Assistant Professors

Category B\*\*: Intermediate concepts. Exercises. By Professorial faculty and Senior Demonstrators/ subject specialists.

Category C\*\*\*: Relatively lower complex concepts, exercises/ applications. By Assistant professors, Demonstrators)

## Pathology Faculty Wise Lecture Allocation

Sr. No.	Faculty Nominated	Designation	No Of Lectures
1.	Prof Mobina Ahsan Dodhy	Chairperson Professor of Pathology	04
2.	Dr. Fatima tuz Zahra	Assistant Professor	05
3.	Dr. Rabiya Khalid	Assistant Professor	05
4.	Dr. Kiran Fatima	Assistant Professor	04
5.	Dr. Sarah Rafi	Demonstrator	03
6.	Dr. Amina Noor	Demonstrator	01
7.	Dr. Mehreen Fatima	Sr. Demonstrator	03
8.	Dr. Mudassira Zahid	Associate Professor	04
9.	Dr. Unaiza Aslam	Demonstrator	01
10.	Dr. Nida Fatima	Demonstrator	01
11.	Dr. Abid Hassan	APMO	01
12.	Dr. Faiza Zafar	Sr. Demonstrator	01
13.	Dr. Syeda Aisha	Demonstrator	01
14.	Dr. Syed Iqbal Haider	Sr. Demonstrator	01

## Staff / Human Resource of Department of Community Medicine

Sr.no.	Designation	Total number of teaching staff
1	Professor	01
2	Associate professor	02
3	Assistant professor	04
4	demonstrators	03
5	PGTs	06

## Categorization of The Content of Community Medicine

Category A*	Category B**	Category C***		
<b>LGIS</b>	LGIS	SDGS	SDL	IUGRC SESSIONS (PAL)
Fundamental concepts of epidemiology, prevention & control of non-communicable diseases (NCDs), risk factors of hypertension, CHD, Stroke	Health systems	Health programs in Pakistan	Epidemiology of Stroke	Manuscript writing
Fundamental concepts of epidemiology, prevention & control of noncommunicable diseases (NCDs) diabetes	Health care delivery system of Pakistan		Epidemiology of Rheumatic Heart disease (RHDs)	Defense of research (presentations)
Fundamental concepts of epidemiology, prevention & control of noncommunicable diseases (NCDs) Cancers			Adolescent health	

Category A\*: Fundamental & Complex Concepts taken by Professors, Associate Professors and Assistant Professors; Category B\*\*: Intermediate concepts. Exercises. By Professorial faculty and Senior Demonstrators/ subject specialists.

Category C\*\*\*: Relatively lower complex concepts, exercises/ applications. By Assistant professors, Demonstrators & senior PGTs)

## Community medicine Faculty Wise Lectures Allocation

Sr no	Faculty nominated	No of lectures
1.	(Ascc Prof) Dr. Khola Noreen	02
2.	(Ascc Prof) Dr. Sana Bilal	01
3.	(Asst Prof) Dr. Afifa kulsoom	02
4.	(Asst Prof) Dr Mehwish Riaz	02
5.	(Asst Prof )Dr. Imran Younis	02
6.	(APMO) Dr. Imrana Saeed	02
7.	(APMO) Dr Narjis Zaidi	02
8.	(Sr Demo) Dr. Asif Maqsood Butt	02

### **Detail of Contact Hours community medicine (Faculty & Students)**

<b>Sr. no.</b>	<b>Hours Calculation for Various Type of Teaching Strategies</b>	<b>Total Hours (Faculty)</b>	<b>Total Hours (Students)</b>	<b>Faculty level</b>
<b>1</b>	LGIS (6). 1hrs each session (half class sessions)	2 x 6= 12 hrs.	6	Professor, associate, and assistant professors
<b>2</b>	SGD (1) approx. 2hrs each session. 1/2class	1 x 2= 2 hrs.	1	Demos (subject specialists), Senior PGTs
<b>3</b>	PAL (IUGRC) (2) approx. 2hrs per session. (16 small groups)	2x2 x 16 =64hrs.	4	Demos (subject specialists) supervised by senior faculties
<b>4</b>	SDL (3)	3 x 1 =3 hrs.	3	Demos (subject specialists)
		Total: 81hrs	14hrs	

### **Human Resource Distribution of Department of Pharmacology**

<b>Sr.no.</b>	<b>Designation</b>	<b>Total number of teaching staff</b>
<b>1</b>	Professor	00
<b>2</b>	Associate professor	00
<b>3</b>	Assistant professor	02
<b>4</b>	Demonstrators	07
<b>5</b>	PGTs	0



### Detail of Contact hours (faculty) & contact hours (students)

Sr. no.	Hours Calculation for Various Type of Teaching Strategies	Total Hours (Faculty)	Total Hours (Students)	Faculty level
1	LGIS (08). 1hrs each session (half class sessions)	2 x 08= 16 hrs. Facilitator x hours	8	Professor, associate, and assistant professors
2	SGD/ (2) approx. 1hrs each session. 1/4 <sup>th</sup> class	9 x 2= 18 hrs. Facilitator x hours	2	Demos (subject specialists), Senior PGTs
3	Practical (1) approx. 2hrs per session	2 x 9 =18 hrs. Facilitator x hours	2	Demos (subject specialists) supervised by professional faculties
4	CBL (3)	9 x 3 =27hrs. Facilitator x hours	3	Demos (subject specialists)
		Total: 79	15 hrs	

### Categorization of Modular Content Of Pharmacology Department

Category A*	Category B**	Category C***		
LGIS	Practical	SDGS/CBLS	SDL	
Anti-thyroid Drugs I Anti-thyroid Drugs II Drugs that Affect Bone Mineral Homeostasis I Drugs Used in Diabetes I Drugs used in diabetes II Drugs used in diabetes III Corticosteroid I	P -Drug and prescription writing on • Diabetes Mellitus type II • Graves' Disease • Adrenal Insufficiency	Mineralocorticoid Antagonist Glucocorticoid Antagonists Hypothyroidism Corticosteroid Diabetes mellitus	Post Covid incidence of thyroid diseases and their pharmacological treatment Bisphosphonates and bone mineral diseases Nuclear receptors coactivators DPP-4 Inhibitors And Pancreatic Carcinoma	

Category A\*: Fundamental & Complex Concepts taken by Professors, Associate Professors and Assistant Professors  
 Category B\*\*: Intermediate concepts. Exercises. By Professorial faculty and Senior Demonstrators/ subject specialists.  
 Category C\*\*\*: Relatively lower complex concepts, exercises/ applications. By Assistant professors, Demonstrators)

## Pharmacology department Lecture Distribution

<b>Sr No.</b>	<b>Faculty Nominated</b>	<b>No of Lectures</b>
<b>1</b>	Associate Professor	00
<b>2</b>	Assistant Professor Dr Zunera	09
<b>3</b>	Assistant Professor Dr Attiya	08
<b>4</b>	Demo Dr Zaheer	06
<b>5</b>	Demo Dr Ayesha	06
<b>6</b>	Demo Dr Arsheen	07
<b>7</b>	Demo Dr Zoefishan	06
<b>8</b>	Demo Dr Mamuna	06
<b>9</b>	Demo Dr Uzma	09
<b>10.</b>	Dema Dr Saba	06

**Rawalpindi Medical University Rawalpindi**  
**Time Table 4<sup>th</sup> year MBBS-Endocrinology Module 2024**

<b>Saturday 25.5.24.</b>	<b>08:00AM – 09:45AM</b>	<b>09:45AM – 10:30</b>	<b>10:30AM – 12.30PM</b>	<b>12:30 PM – 2:00PM</b>	<b>12:30PM – 01:15PM</b>	<b>01:15PM – 02:00PM</b>	
	<b>Community Medicine</b>		<b>LMS test</b>	<b>Community Medicine</b>			
	IUGRC Session Data collection		<b>Break</b>	On campus End of ophthalmology block LMS test	<b>Innovation on entrepreneurship (LGIS)</b>		
	<b>Batch I-P</b>   <b>Batch A-H</b>				<b>CPC Hall combined class</b>		
F aculty of community medicine			Dr Asif Maqsood (Sr Demonstrator)				

**Rawalpindi Medical University Rawalpindi**  
**Time Table 4<sup>th</sup> year MBBS-Endocrinology Module 2024**

(1<sup>st</sup> week)

DATE / DAY	8:00 AM – 9:00 AM	09:00am – 10:00am	10:30am – 12:00pm		12:00pm - 02:00pm		
<b>Monday</b> 27.5.24	<b>LGIS</b>	<b>ETHICS (LGIS)</b>					
	Quran class	Informed consent					
	Qari Abdul Wahid lec hall 1	(odd) lec hall 1	(Even) lec hall 2				
		Dr Affifa Kalsoom AP	Assoc Prof Dr Khola Noreen				
<b>Tuesday</b> 28.5.24	<b>MEDICINE(LGIS)</b>	<b>COMMUNITY MEDICINE</b>					
	Acromegaly	Non- Communicable diseases HTN, CHD					
	(odd) lec hall 1	(Even) lec hall 2	(odd) lec hall 1	(Even) lec hall 2			
	Dr Nida	Dr Shahzad Manzoor	Dr Imrana Saeed APMO	Assc Prof Dr. Sana Bilal			
<b>Wednesday</b> 29.5.24.	<b>PATHOLOGY (SGD)</b>	<b>MEDICINE (LGIS)</b>					
	Posterior Pituitary Hormones and their Disorders	Diabetes Insipidus					
	(odd) lec hall 1,3	(Even) lec hall 2,6	(odd) lec hall 1	(Even) lec hall 2			
	DR Fatima Zahra, Dr Rabiya Khalid	Dr Sara, Dr Kiran Fatima	Dr Saima Ambreen	Dr Shahzad Manzoor			
<b>Thursday</b> 30.5.24	<b>PATHOLOGY (LGIS)</b>	<b>FAMILY MEDICINE (LGIS)</b>					
	Hypothyroidism and Thyroid Tumors	Care concepts of FM in NCDs (diabetes, Obesity)					
	(odd) lec hall 1	Lec hall 2	CPC hall. Combined class				
	Prof Mobeena	Dr Mudassira	Dr Saadia HOD (family medicine dept.)				
<b>Friday</b> 31.5.24.	<b>08:00AM – 09:45AM</b>	<b>09:45AM – 10:30</b>	<b>10:30AM – 11:15AM</b>	<b>11:15AM – 12:00PM</b>			
	<b>PAL/skill lab</b>	<b>PATHOLOGY (LGIS)</b>	<b>PHARMACOLOGY (LGIS)</b>	<b>MEDICINE (LGIS)</b>			
	<b>Community Medicine / Pathology</b> IUGRC Session/ Thyroiditis, Multinodular goiter -I	Hyperthyroidism	Anti-thyroid Drugs classification	Thyroid Disorders 1 hypothyroidism			
	<b>Batch A-H</b>	<b>Batch I-P</b>	(odd) lec hall 4	(Even)lec hall 5	(odd) lec hall 4	(Even)lec hall 5	
All demonstrators & senior faculty	Dr Amina Noor	Dr. Rabiya Khalid	Dr. Fatima Zahra	Dr Attiya	Dr. Zunaira	Dr Mojeeb	Dr Nida
<b>Saturday SEMINAR THYROID</b>	<b>08:00AM – 09:45AM</b>	<b>09:45AM – 10:30</b>	<b>10:30AM – 11:15AM</b>	<b>11:15</b>	<b>11:45AM – 12:30PM</b>	<b>12:30PM – 01:15PM</b>	<b>01:15PM – 02:00PM</b>
	<b>PAL/ skill lab</b>	<b>PHARMACOLOGY (LGIS)</b>	<b>PEDIATRICS (LGIS)</b>	<b>BREA K</b>	<b>MEDICINE (LGIS)</b>	<b>Gynae (LGIS)</b>	<b>Surgery (LGIS)</b>
	<b>Community Medicine / Pathology</b>						

CLINICAL CLERKSHIP of community medicine attached as annexures at the end of document  
Community oriented clerkship and other rotations will remain same. These will be completed at end of yr.

<b>1.6.24.</b>	IUGRC Session/ Thyroiditis, Multinodular goiter -II		Anti-thyroid Drugs (Mechanism of Action & Adverse Effects)		Hypothyroidism		Graves' disease, thyroiditis, comparison of hypo& hyper thyroidism		Thyroid in Pregnancy		Surgical Intervention In thyroid Disease	
	<b>Batch I-P</b>	<b>BatchA-H</b>	<b>(odd) lec hall 4</b>	<b>(Even) lec hall 5</b>	<b>(odd) lec hall 4</b>	<b>(Even) lec hall 5</b>	<b>(odd) lec hall 4</b>	<b>(Even) lec hall 5</b>	<b>(odd) lec hall 4</b>	<b>(Even) lec hall 5</b>	<b>(odd) lec hall 4</b>	<b>(Even) lec hall 5</b>
	All demonstrators	Dr.Iqbal	Dr Attiya	Dr. Zunera	Dr Hina Sattar AP	Dr Huma Asghar SR	Dr Nida	Dr Mujeeb	Dr Amna Abbasi	Dr. Farah Deeba	Dr Zafar Iqbal	Dr. Umer Qaiser

**Rawalpindi Medical University Rawalpindi**  
**Time Table 4<sup>th</sup>year Mbbs-Endocrinology Module 2024**

**(2<sup>nd</sup>week)**

<b>DATE / DAY</b>	<b>8:00 AM – 9:00 AM</b>	<b>09:00am – 10:00am</b>	<b>BREAK 10:00AM – 10:30</b>		<b>10:30am – 12:00pm</b>	<b>12:00pm - 02:00pm</b>		
<b>Monday 3.6.24</b>	<b>PHARMACOLOGY (CBL)</b> Hyperthyroidism (Clinical Pharmacology)	<b>COMMUNITY MEDICINE (LGIS)</b> Non-Communicable diseases, obesity, diabetes			<b>CLINICAL CLERKSHIP of community medicine attached as annexures at the end of document Community oriented clerkship and other rotations will remain same. These will be completed at end of yr.</b>			
	<b>lec hall 1 &amp; 2</b>	<b>lec hall 6 &amp; Pharma lab</b>	<b>(odd) lec hall 1</b>	<b>(Even) lec hall 2</b>				
	Dr Attiya Dr Zoefeshan Dr Zaheer Dr Uzma Dr Ayesha	Dr Zunera Dr Saba Dr Memuna Dr Arsheen	Dr. Narjis Zaidi APMO	Dr. Affifa KalsoomAP				
<b>Tuesday 4.6.24.</b>	<b>PATHOLOGY (SGD)</b> Parathyroid Disorders	<b>PHARMACOLOGY (LGIS)</b> Drugs that Affect Bone Mineral Homeostasis						
	<b>(odd) lec hall 1,3</b>	<b>(Even) lec hall 2,toxi lab</b>	<b>(odd) lec hall 1</b>	<b>(Even) lec hall 2</b>				
	Dr Sara Dr Mehreen Fatima	Dr Kiran Fatima Dr Mudassira Zahid	Dr Attiya	Dr. Arsheen				
<b>Wednesday 5.6.24</b>	<b>PATHOLOGY (SGD)</b> Parathyroid adenoma & carcinoma	<b>SURGERY (LGIS)</b> Surgical Intervention of Parathyroid Gland						
	<b>(odd) lec hall 1,3</b>	<b>(Even) lec hall 2,6</b>	<b>(odd) lec hall 1</b>	<b>(Even) lec hall 2</b>				
	Dr shabih Dr Kiran Fatima	Dr Rabiya Dr Fatima Zahra	Dr Qasim ali	Dr Zafar Iqbal				
<b>Thursday 6.6.24.</b>	<b>PATHOLOGY (LGIS)</b> Diabetes Mellitus	<b>PHARMACOLOGY (LGIS)</b> Anti-Diabetic drugs (Classification)						
	<b>(odd) lec hall 1</b>	<b>(Even) lec hall 2</b>	<b>(odd) lec hall 1</b>	<b>(Even) lec hall 2</b>				
	Prof Mobeena	Dr Mudassira	Dr Zunera	Dr. uzma				
<b>Friday 7.6.24.</b>	<b>08:00AM – 09:45AM</b> SGD / Skill lab	<b>09:45AM – 10:30</b> <b>PHARMACOLOGY (LGIS)</b>	<b>10:30AM – 11:15AM</b> <b>MEDICINE (LGIS)</b>		<b>11:15AM – 12:00PM</b> <b>PEDIATRICS (LGIS)</b>			
	<b>Community Medicine / Pathology</b> Health programs/ Chronic Pancreatitis, Pancreatic Carcinoma	Anti-Diabetic Drugs (Parenteral)	Diabetes and Hypoglycemia		Diabetes Mellitus/DKA I			
	<b>Batch A-H</b>	<b>I-P</b>	<b>(odd) lec hall 4</b>	<b>(Even) lec hall 5</b>	<b>(odd) lec hall 4</b>	<b>(Even) lec hall 5</b>		
	Dr Asif , Dr Mehwish	<b>Dr Nida</b>	Dr Zunera	Dr. uzma	Dr Nida	Dr. Mujeeb	Dr Hina Sattar AP	Dr. Sonia Fazal SR
<b>Saturday SEMINAR DAY</b>	<b>08:00AM – 09:45AM</b> SGD / Skill lab	<b>09:45AM – 10:30</b> <b>PHARMACOLOGY (LGIS)</b>	<b>10:30AM – 11:15AM</b> <b>GYNAE/OBS (LGIS )</b>		<b>11:45AM – 12:30PM</b> <b>MEDICINE(LGIS)</b>	<b>12:30PM – 01:15PM</b> <b>PEDIATRICS (LGIS)</b>	<b>01:15PM – 02:00PM</b> <b>EYE (LGIS)</b>	

8.6.24.	Community Medicine / Pathology Health programs/ Chronic Pancreatitis, Pancreatic Carcinoma		Oral Hypoglycemics		Diabetes in Pregnancy		Diabetes DKA I		Diabetes Mellitus management/DKA II		Complication of EYE in Diabetes Mellitus	
	A-H	I-P	(odd) lec hall 4	(Even) lec hall 5	(odd) lec hall 4	(Even) lec hall 5	(odd) lec hall 4	(Even) lec hall 5	(odd) lec hall 4	(Even) lec hall 5	(odd) lec hall 4	(Even) lec hall 5
	Dr Asif , Dr Mehwish	<b>Dr Haider</b>	Dr Zunera	Dr. Uzma	Dr. saima khan	Dr Ammarah	Dr Nida	Dr Mujeeb	Dr Huma Asghar SR	Dr. Maria Shamsher	Dr Maria	Dr Misbah

**Rawalpindi Medical University Rawalpindi**  
**Time Table 4<sup>th</sup>year MBBS-Endocrinology Module 2024**

(3<sup>rd</sup>week)

DATE / DAY	8:00 AM – 9:00 AM		09:00am – 10:00am		BREAK 10:00AM – 10:30 AM	10:30am – 12:00pm		12:00pm - 02:00pm		
Monday 10.6.24.	<b>COMMUNITY MEDICINE (LGIS)</b>		<b>PHARMACOLOGY (CBL)</b>			BREAK 10:00AM – 10:30 AM	<b>CLINICAL CLERKSHIP of community medicine attached as annexures at the end of document Community oriented clerkship and other rotations will remain same. These will be completed at end of yr.</b>			
	Epidemiology & Prevention of Non-Communicable diseases (Cancers)		Drugs used in Diabetes (Clinical Pharmacology)							
	(odd) lec hall 1	(Even) lec hall 2	lec hall 1 & 2	lec hall 6 & pharmacy lab						
Dr Imrana Saeed	Dr Narjis	Dr Asma Dr Zoefeshan Dr Zaheer Dr Uzma	Dr Zunera Dr Saba Dr Memuna Dr Arsheen Dr Ayesha							
Tuesday 11.6.24.	<b>PATHOLOGY (SGD)</b>		<b>SURGERY (LGIS)</b>							
	Pancreatic tumors		Surgical intervention of Pancreatic Tumors							
	lec hall 1,3	lec hall 2,toxi lab	(odd) lec hall 1	(Even) lec hall 2						
Prof. Mobina Dr Sara	Dr Mehreen Fatima Dr Mudasira Zahid	Dr Amna Nazir	Dr Gohar Rasheed							
Wednesday 12.6.24.	<b>PATHOLOGY (CBL)</b>		<b>PATHOLOGY (LGIS)</b>							
	Complications of Diabetes Mellitus		Adrenal Gland/Hyperadrenalism							
	lec hall 1,3	lec hall 2,6	(odd) lec hall 1	(Even) lec hall 2						
DR Unaiza Dr Muddasira	Dr Aiysha, Dr Iqbal	Dr Rabiya Khalid	Dr.Fatimatu Zahra							
Thursday 13.6.24.	<b>MEDICINE (LGIS)</b>		<b>Surgery (LGIS)</b>							
	Hyperaldosteronism		Surgical intervention of Adrenal Gland							
	(odd) lec hall 1	(Even) lec hall 2	(odd) lec hall 1	(Even) lec hall 2						
Dr Nida	Dr Mujeeb	Dr waqas	Dr Asif khan							
Friday 14.6.24.	08:00AM – 09:45AM		09:45AM – 10:30		10:30AM – 11:15AM		11:15AM – 12:00PM			
	PAL/ skill lab		<b>MEDICINE (LGIS)</b>		<b>PATHOLOGY (LGIS)</b>		<b>PHARMACOLOGY(LGIS)</b>			
	Community medicine / Pharmacology		Cushing's Syndrome and Addison Disease		Hypoadrenalism and adrenal tumors		Corticosteroids (Classification)			
IUGRC Session/P-Drug & Prescription writing										
Batch A-H	I-P	(odd) lec hall 4	(Even) lec hall 5	(odd) lec hall 4	(Even) lec hall 5	(odd) lec hall 4	(Even) lec hall 5	(odd) lec hall 4	(Even) lec hall 5	

	All demonstrators	Dr Asma Dr Zoefeshan Dr Zaheer Dr Uzma	Dr Saima Ambreen	Dr Mujeeb	Dr. Kiran Fatima	Dr. Mudasira Zahid	Dr Attiya	Dr Zunera					
<b>Saturday 15.6.24.</b>	<b>08:00AM – 09:45AM</b>		<b>09:45AM – 10:30</b>		<b>10:30AM – 11:15AM</b>		<b>BREAK</b>	<b>11:45AM – 12:30PM</b>		<b>12:30PM – 01:15PM</b>		<b>01:15PM – 02:00PM</b>	
	PAL/skill lab COMMUNITY MEDICINE / PHARMACOLOGY		PHARMACOLOGY (LGIS)		PHARMACOLOGY (CBL)			Quran class LGIS		PATHOLOGY (CBL)		PHARMACOLOGY (SGD)	
	IUGRC Session/P-Drug & Prescription writing		Corticosteroids (Mechanism of Action & Adverse effects)		Corticosteroids (Clinical Pharmacology)					Pineal Gland Pathologies		Glucocorticoids Antagonist	
	<b>I-P</b>	<b>Batch A-H</b>	<b>(odd) lec hall 4</b>	<b>(Even) lec hall 5</b>	<b>lec hall 3 &amp; 4</b>	<b>lec hall 5,6</b>		CPC HALL Combined class		<b>(odd) lec hall 3,4</b>	<b>(Even) lec hall 5,6</b>	<b>lec hall 3 &amp; 4</b>	<b>lec hall 5 &amp; 6</b>
	All demonstrators & senior faculty	Dr Attiya Dr Saba Dr Memuna Dr Arsheen Dr Ayesha	Dr Attiya	Dr. Zunera	Dr Attiya Dr Zoefeshan Dr Zaheer Dr Uzma Dr Ayesha	Dr Zunera Dr Saba Dr Memuna Dr Arsheen		Qari Abdul wahid		Prof. Mobina Dr Nida	Dr Abid Dr Faiza	Dr Asma Dr Zoefeshan Dr Zaheer Dr Uzma	Dr Attiya Dr Saba Dr Memuna Dr Arsheen Dr Ayesha

**Summer vacations 16.6.24-----21.7.24.**

**Rawalpindi Medical University Rawalpindi**  
**Time Table 4<sup>th</sup> year Mbbs-Endocrinology Module 2024**

(4<sup>th</sup> week)

DATE / DAY	8:00 AM – 9:00 AM	09:00am – 10:00am	BREAK 10:00AM – 10:30AM		10:30am – 12:00pm	12:00pm - 02:00pm
<b>Monday</b> 22.7.24.	<b>PATHOLOGY (SGD)</b>		<b>COMMUNITY MEDICINE (LGIS)</b>		<b>CLINICAL CLERKSHIP of community medicine attached as annexu</b> <b>Community oriented clerkship and other rotations will remain same. These</b> <b>yr.</b>	<b>es at the end of document</b>
	Disorders of Adrenal medulla & MEN Syndrome		Health systems			
	lec hall 1,3	lec hall 2,6	(odd) lec hall 1	(Even) lec hall 2		
	Dr Mudassira Zahid Dr Fatima Zahra	Dr Rabiya Khalid Dr Mehreen Fatima	Dr Imran Younis	Dr Khola Noreen		
<b>Tuesday</b> 23.7.24	<b>COMMUNITY MEDICINE (LGIS)</b>		<b>PHARMACOLOGY (SGD)</b>		<b>CLINICAL CLERKSHIP of community medicine attached as annexu</b> <b>Community oriented clerkship and other rotations will remain same. These</b> <b>yr.</b>	<b>es at the end of document</b>
	Healthcare delivery system of Pakistan		Mineralocorticoid Antagonist			
	(odd) lec hall 1	(odd) lec hall 1	lec hall 1 &2	lec hall 3, Toxi lab		
	Dr Imran Younis	Dr Mehwish Riaz	Dr Asma Dr Zoefeshan Dr Zaheer	Dr Zunera Dr Saba Dr Memuna		
		Dr Uzma ,drAyesha Dr Arsheen				
<b>Wednesday</b> 24.7.24.	<b>SDL/Prep Leave</b>					



<b>Thursday 25.7.24.</b>	<b>Module Exam Community Medicine</b>
<b>Friday 26.7.24.</b>	<b>Module Exam Pathology</b>
<b>Saturday 28.7.24.</b>	<b>Module Exam Pharmacology</b>

**NOTE; Venue for CBL & SGDs is subject to availability of lecture halls. Sometimes due to overlapping of activities, change of venue will be notified.**

## SCHEDULE OF IUGRC SESSION, 2024

<b>Batch</b>	<b>Batch Incharge</b>	<b>Senior Faculty</b>
<b>A.</b>	Dr Mehreen	Dr Khola Noreen
<b>B.</b>	Dr Ayesha	Dr Imran Younis
<b>C.</b>	Dr Maria	Dr Sana Bilal
<b>D.</b>	Dr Narjis	Dr Rizwana Shahid
<b>E.</b>	Dr Imrana	Dr Sana Bilal
<b>F.</b>	Dr Asif Maqsood	
<b>G.</b>	Dr Bushra	Dr Afifa Kalsoom
<b>H.</b>	Dr Saba	Dr Mehwish Riaz
<b>I.</b>	Dr Asif Maqsood	
<b>J.</b>	Dr Mehreen	Dr Khola Noreen
<b>K.</b>	Dr Maria	Dr Mehwish Riaz
<b>L.</b>	Dr Moniba	Dr Rizwana Shahid
<b>M.</b>	Dr Bushra	Dr Arshad sabir
<b>N.</b>	Dr Zaira	Dr Arshad Sabir
<b>O.</b>	Dr Saba	Dr Afifa Kalsoom
<b>P.</b>	Dr Ayesha	Dr Imran Younis

### **Community Oriented Clerkship Module (annex I)**

**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 Pr(Even)tive 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.
- 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. 05 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.**

<b>Day</b>	<b>Activity -I 10.30 – 11.00</b>	<b>Activity – II 11.00- 11.30am</b>	<b>Activity III 11.30- 01.00pm</b>	<b>Act-V 01.00 – 2.00pm</b>	<b>Sites of teaching- learning</b>	<b>Assessment</b>	<b>Session outcome (level of learning)</b>
	Session topic	Session topic	Session topic	Session topic			

1 <sup>st</sup> day	instructing / demonstration on Practical Manual based Assignments	Visit to CHC • SGIS on Health days commemoration 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 4 <sup>th</sup> Prof MBBS)	• Construct a health message. (C6) • Prepare Health days commemoration stuff, Display material, PPT, (P) • Undertake a health survey. (HHS) (C3)
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2 <sup>nd</sup> day	Follow up session on. - HM-DTD work - HHS work - health days commemoration 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)	• Demo Room, • EPI Center HFH • OPD, hospital shelters sites for health awareness work (HAW)	• 1-2 OSPE in end of clerkship exam (credit will part of IA) Grade of performance in EPI visit reporting. Credit of HAW	• Explain cold chain component at EPI center • Vaccinate (EPI) vaccines to the clients. • Comprehend EPI system
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)	• FP Center HFH • OPD, hospital shelters sites for HAW	• 1-2 OSPE in end of clerkship exam (credit will part of IA) • Grade of performance in EPI visit reporting. • Credit of HAW	• Identify CP devices available at MHC FP center • Counsel clients for use of a contraception method • Place CP devices to client (P)

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	• End of module OSPE • Grade of performance in visits to sites	• Explain hospital waste disposal system • Develop a hospital waste management plan • Explains various domains of hospital management (C2)
5 <sup>th</sup> day week 2)	SGIS / PPT based briefing on Hospital management & administration	Visit to Hospital management & administration (HFH) office		Health awareness work (HAW)	HHF	• 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. (C2)
7 <sup>th</sup> day	Health days commemoration (walk/ seminar/ presentation/ CHC-message dissemination work (10.30 – 12.00pm)		12.00 – 2.00pm • Completion & assessment of relevant Practical Journal work, • HHS-report book, • Logbook etc. • Feedback discussion on PHI		• Communication skills • Comprehend frequency Preventable RFs of NCDs in the real population (RF surveillance) • Undertake a preventive Healthcare inquiry		

**RAWALPINDI MEDICAL UNIVERSITY, RAWALPINDI**  
**CLINICAL TRAINING ROTATIONS 4<sup>TH</sup> YEAR MBBS CLASS (SESSION 2023-2024)**

**STARTING w.e.f 19-02-2024 ENDING 20-11-2024.**

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	PEAD S H.F.H	PEAD S B.B.H.	CARDIO	PATH	NEURO SURGE RY
19-02-24 To 03-03-24	A	B1, HFH-1 B2, HFH-2	C1, BBH C2, DHQ	D	E	F	G	H	I	J	K	L	M	N	O	P
04-03-24 to 17-03-24	B	C1, HFH-1 C2, HFH-2	D1, BBH D2, DHQ	E	F	G	H	I	J	K	L	N	O	P	A	
18-03-24 To 31-03-24	C	D1, HFH-1 D2, HFH-2	E1, BBH E2, DHQ	F	G	H	I	J	K	L	M	O	P	A	B	
01-04-24 To 21-04-24 S.V	D	E1, HFH-1 E2, HFH-2	F1, BBH F2, DHQ	G	H	I	J	K	L	M	N	P	A	B	C	
22-04-24 To 12-05-24 (S.W)	E	F1, HFH-1 F2, HFH-2	G1, BBH G2, DHQ	H	I	J	K	L	M	N	O	A	B	C	D	
13-05-24 To 26-05-24	F	G1, HFH-1 G2, HFH-2	H1, BBH H2, DHQ	I	J	K	L	M	N	O	P	B	C	D	E	

27-05-24 To 09-05-24	G	H1, HFH-1 H2, HFH-2	I1, BBH I2, DHQ	J	K	L	M	N	O	P	A		C	D	E	F
	H			I1, HFH-1 I2, HFH-2	J1, BBH J2, DHQ	K	L	M	N	O	P	A		B	D	E
	I	J1, HFH-1 J2, HFH-2	K1, BBH K2, DHQ	L	M	N	O	P	A	B	C			F	G	H
05-08-24 To 18-08-24	J	K1, HFH-1 K2, HFH-2	L1, BBH L2, DHQ	M	N	O	P	A	B	C	D	F	E	G	H	I
19-08-24 To 01-09-24	K	L1, HFH-1 L2, HFH-2	M1, BBH M2, DHQ	N	O	P	A	B	C	D	E		G	H	I	J
02-09-24 To 15-09-24	L	M1, HFH-1 M2, HFH-2	N1, BBH N2, DHQ	O	P	A	B	C	D	E	F	H	I	G	K	
16-09-24 To 29-09-24	M	N1, HFH-1 N2, HFH-2	O1, BBH O2, DHQ	P	A	B	C	D	E	F	G		I	J	K	L
30-09-24 To 13-10-24	N	O1, HFH-1 O2, HFH-2	P1, BBH P2, DHQ	A	B	C	D	E	F	G	H	J	K	L	M	
14-10-24 To 27-10-24	O	P1, HFH-1 P2, HFH-2	A1, BBH A2, DHQ	B	C	D	E	F	G	H	I		K	L	M	N

<b>28-10-24 To 10-11-24</b>	<b>P</b>	<b>A1, HFH-1 A2, HFH-2</b>	<b>B1, BBH B2, DHQ</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>	<b>L</b>		<b>M</b>	<b>N</b>	<b>O</b>
<b>Date</b>	<b>Medicine /Neurology DHQ</b>	<b>OBS/GYN HFH I &amp; II</b>	<b>OBS/GYN BBH &amp; DHQ</b>	<b>C.MED</b>	<b>E.N.T. H.F.H.</b>	<b>E.N.T. . B.B.H. .</b>	<b>E.N.T. D.H.Q</b>	<b>ENT / EYE HFH / HFH</b>	<b>EYE H.F.H</b>	<b>EYE B.B.H.</b>	<b>EYE DHQ</b>	<b>PEAD S H.F.H</b>	<b>PEAD S B.B.H.</b>	<b>CARDIO</b>	<b>PATH</b>	<b>NEURO SURGE RY</b>

**Vice Chancellor**  
**Rawalpindi Medical University**  
**Rawalpindi**

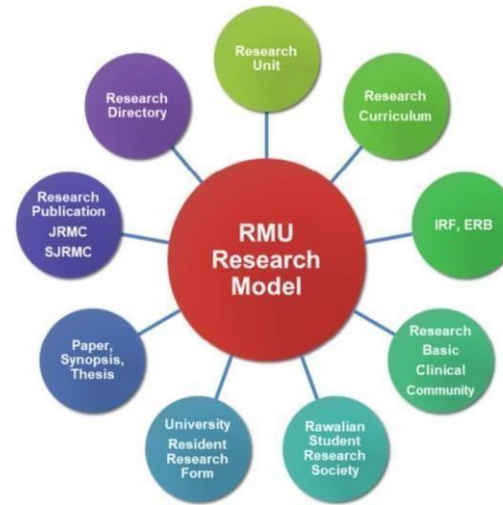
No.T-9/\_\_\_\_\_ /RMU, RWP. Dated \_\_\_\_\_ 2024.

**Copy to all concerned Departments.**  
**You are also informing to send revised lecture schedule.**



## 12- 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 clear scheme and plan for establishment of required components for not to promote entrepreneurship through research for future development of



Research activities in RMU, called the Research Model of RMU, giving only promoting, facilitating and monitoring the research activities but also RMU itself.

## 13- Biomedical Ethics

Ethical choices, both minor and major, confront us every day 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 no maleficence, 3. Principle of beneficence, and 4. Principle of justice.

## 14- 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 behavioral sciences. Family physicians can themselves provide care for the majority of conditions encountered in the ambulatory setting and integrate all necessary health care services.

## **15- 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.