



2023

# BAQAI MEDICAL COLLEGE 4TH YEAR MBBS



***INTRODUCTORY GUIDE***

**SPIRAL II – INTEGRATED CURRICULUM**  
**STUDY GUIDE FOR THE STUDENTS OF**  
**4<sup>th</sup> YEAR MBBS SESSION 2023- 2024**



**BAQAI MEDICAL COLLEGE**  
**BAQAI MEDICAL UNIVERSITY**

51-Deh Tor, Gadap Road, Superhighway. P.O Box: 2407, Karachi-75340, Pakistan.

(092-21)34410-293 to 298, 34410-427 to 430

Fax: (092-21)34410-317, 34410-431

Email: [info@baqai.edu.pk](mailto:info@baqai.edu.pk), Web: [www.baqai.edu.pk/](http://www.baqai.edu.pk/)





## Preface

The recent developments in the field of medical education globally have brought about major changes in traditional paradigm of learning and teaching. The shift from teacher-centered to student-centered learning, has its impact both at the undergraduate and post graduate learners.

This study guide for the integrated modular system is developed to keep pace with these changes. This guide is based on SPICES model of curriculum development.

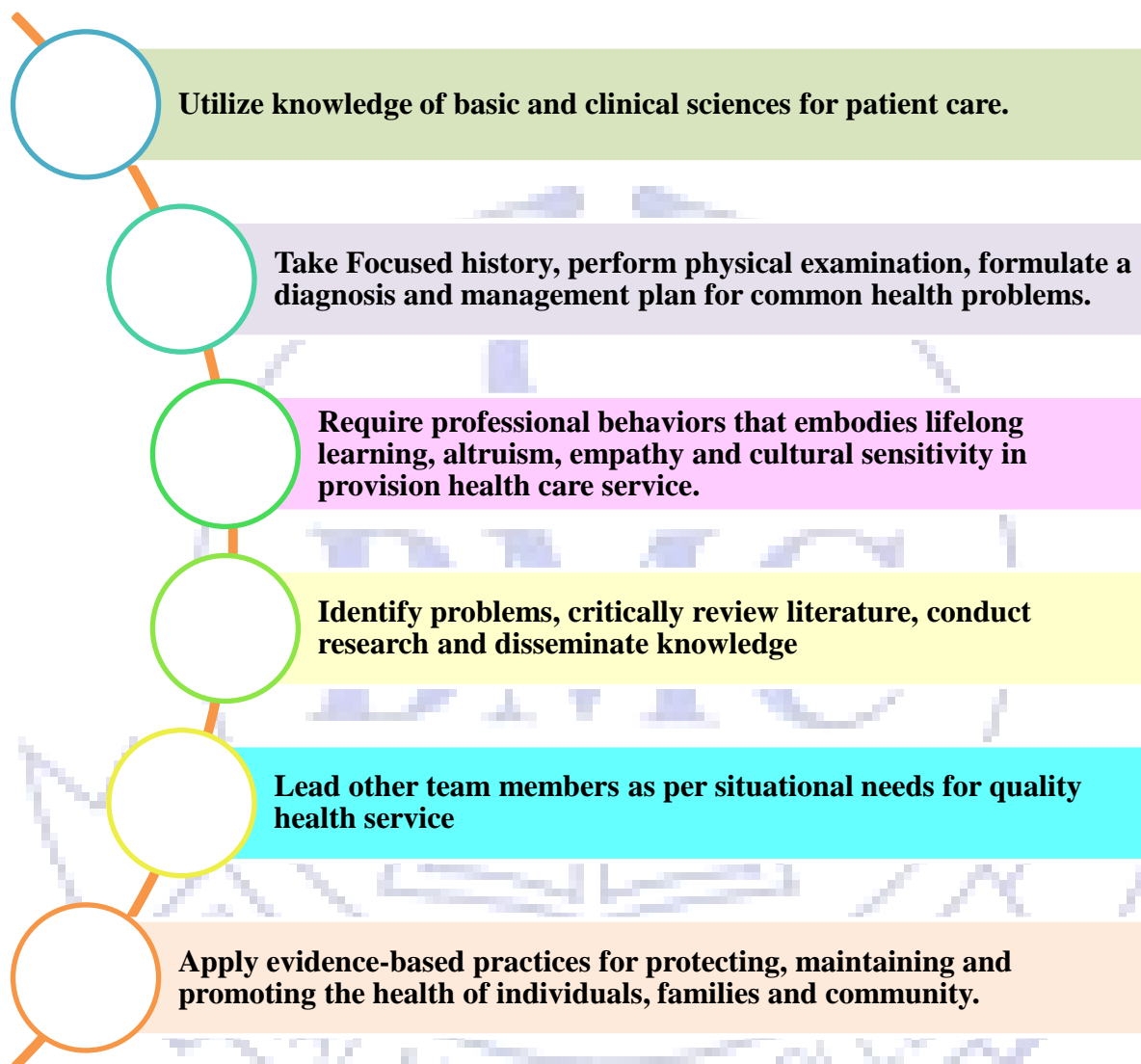
1. The course organization, content and activities are mainly student centered.
2. To make students problem-oriented learners, we have incorporated case-based learning in our modules.
3. Integration of the basic sciences content with pre-clinical and clinical subjects has been done explicitly.
4. Field visits are arranged at satellite clinics of Baqai Medical University and other community health care centers to enlighten the students about the community related health problems.
5. Students are allowed to opt for Electives in parent as well as other institutes for enhancement in learning.
6. It is a structured program, which starts with the basic concepts of medicine and incorporates all components of medical sciences in horizontal as well as vertical form.

This study guide provides content related information in the form of learning resources, guide to learning and curriculum for management of learning and an outline of students' activities. In this way, it may be considered as multidimensional guide for an undergraduate program of MBBS.

<i>Vision</i>	<i>Mission</i>
	
<p><b><i>Baqai Medical University</i></b></p>	
<p>To evolve as a nucleus for higher learning with a resolution to be socially accountable, focused on producing accomplished health care professionals for services in all spheres of life at the national and global level”.</p>	<p>The mission of Baqai Medical University is to be recognized as a center of excellence in education, research, patient care and community services by producing highly capable and knowledgeable professionals.</p>
<p><b><i>Baqai Medical College</i></b></p>	
<p>Our vision is to enhance the access and excellence in medical education and research, with the aim of capacity building of students and faculty through innovations, and science and technology competencies, to achieve rapid and sustainable health. The medical graduate thus produced will be informed and trained enough to serve the community better, and to be advisor to the national and international health organizations.</p>	<p>The mission of the Baqai Medical College is to produce medical graduates, who are responsible and accomplished individuals and have skills for problem solving, clinical judgment, research &amp; leadership for medical practice at the international level and are also aware of the health problems of the less privileged rural and urban population of Pakistan.</p>

## OUTCOMES OF THE MBBS PROGRAM

The Baqai University graduate of the MBBS program will be able to:



## POLICIES AND PROCEDURES

### Code of Conduct and Maintenance of Discipline of Students Regulations Under section 25(e) BMU Act.1996

All University students shall be under the full disciplinary control of the University. No students shall be allowed to participate in politics. The action against the act of indiscipline shall include fines, debarring from attending class and cancellation of admission, depending on the gravity of indiscipline.

The following shall constitute acts of indiscipline for which action may be taken against the student or students:

- (a) Breach of any rule public morals, such as:
  - Use of indecent or filthy language;
  - Use of immodest dress;
  - Use of undesirable remarks or gestures; and
  - Disorderly behavior, such as shouting, abusing, quarrelling, fighting and insolence.
- (b) Defiance of authority
- (c) Action, defamatory of and derogatory to Islam
- (d) Immorality
- (e) Being found under the effect of an intoxicant or misuse of drugs including marijuana, LSD dope and other opioids.
- (f) False personation or giving false information or willful suppression of information, cheating or deceiving.
- (g) Inciting or staging a walk-out, a strike or an unauthorized procession.
- (h) Shouting of slogans derogatory to the prestige of the University or the reputation of its officers or teachers.
- (i) Visiting without a pass place which are not to be visited without a pass.
- (j) Visiting places declared out of bounds for students

Every student must carry his / her Identity Card which will be open to examination and will be demanded at the time of entrance to the various University Faculties and functions.

No. student will be admitted to the facilities of the library, transport or the canteen unless he /she is in possession of the Identity Card



## SPIRAL II

### INTEGRATED MODULES

#### 4<sup>th</sup> YEAR MBBS SESSION 2023- 2024

No	Module	Duration
1 <sup>st</sup> Module	Gastro-Intestinal Tract (GIT) & Hepatobiliary Module	8 Weeks
2 <sup>nd</sup> Module	Musculoskeletal & Dermatology Module	8 Weeks
3 <sup>rd</sup> Module	Endocrinology Module	8 Weeks
4 <sup>th</sup> Module	Reproduction & Breast Module	8 Weeks
5 <sup>th</sup> Module	Renal Module	8 Weeks

## BAQAI MEDICAL COLLEGE

### TEACHING FACULTY FOR 4<sup>TH</sup> YEAR MBBS





<b>DEPARTMENT OF PATHOLOGY</b>		
<i>Name</i>	<i>Qualifications</i>	<i>Designation</i>
<b>Prof. Dr. Rafiq Khanani</b>	MBBS, M. Phil., FC Path (H), Ph.D.	Chairman & Professor
<b>Prof. Dr. Syed Alay Hasan Zaidi</b>	MBBS, M. Phil, FCPS, FC Path, Ph. D, FRCP	Professor
<b>Prof. Dr. Col. (R) Nazar Hussain</b>	MBBS, MCPS, FCPS	Professor
<b>Dr. Nasima Iqbal</b>	MBBS, MPhil, CHPE	Associate Professor
<b>Dr. Muhammad Rizwan</b>	MBBS, M Phil, CHPE, CHQP	Associate Professor
<b>Dr. Maeesa Sajeel</b>	MBBS, M Phil, M.S (Trans Med), CHPE, CHQP	Associate Professor
<b>Dr. Muhammad Khan</b>	MBBS, M Phil, MCPS, DCP, DIP	Assistant Professor
<b>Dr. Younus Jamal Siddiqui</b>	MBBS, Ph. D, CHPE	Assistant Professor
<b>Dr. Sarah Azhar</b>	MBBS, M Phil, CHPE	Assistant Professor
<b>Dr. KhushBakht Nawaz</b>	MBBS, M Phil, CHPE	Assistant Professor
<b>Dr. Ghazal Irfan</b>	MBBS, DI LH & BT, M Phil	Assistant Professor
<b>Dr. Munazza Rashid</b>	MBBS, Ph. D	Assistant Professor
<b>Dr. Nadeem Umer Baqai</b>	MBBS, DIP	Senior Lecturer

<b>DEPARTMENT OF PATHOLOGY</b>		
<i>Name</i>	<i>Qualifications</i>	<i>Designation</i>
<b>Dr. Sana Mubarak</b>	BDS, M. Sc.	Senior Lecturer
<b>Muhammad Rizwan</b>	M. Sc, M Phil	Senior Lecturer
<b>Dr. Sidra Izhar</b>	MBBS	Lecturer
<b>Dr. Yasir Rishi</b>	MBBS, CHPE	Lecturer
<b>Dr. Tooba Khan</b>	MBBS, CHPE	Lecturer
<b>Dr. Rozina Khan</b>	MBBS, CHPE	Lecturer
<b>Dr. Mehak Mussawar</b>	BDS, CHPE, CHR	Lecturer
<b>Dr. Shumail Gul</b>	BDS	Lecturer

<b>DEPARTMENT OF PHARMACOLOGY &amp; THERAPEUTICS</b>	
<i>Name</i>	<i>Designation</i>
<b>Prof. Dr. Shaikh Nadeen Ahmed</b>	Chairman & Professor
<b>Prof. Dr. Asif Ahmed</b>	HOD & Professor
<b>Dr. Lubna Jahanzaib</b>	Assistant Professor
<b>Dr. Urooj Z. Aamir</b>	Assistant Professor
<b>Dr. Faraz Saleem</b>	Assistant Professor
<b>Dr. Hina Masood</b>	Senior Lecturer
<b>Dr. Hina Amjad</b>	Senior Lecturer
<b>Dr. Humaira Arif</b>	Lecturer
<b>Dr. Sehrish Mahmood</b>	Lecturer
<b>Dr. Lubna Ali</b>	Lecturer
<b>Dr. Sumreen Mujahid</b>	Pharmacist

<b>DEPARTMENT OF COMMUNITY MEDICINE</b>		
<i>Name</i>	<i>Qualifications</i>	<i>Designation</i>
<b>Prof. Dr. Imtiaz Ahmed Jafry</b>	MBBS, MPH	HOD & Professor
<b>Prof. Dr. Nazia Jameel</b>	MBBS, MPH	Professor
<b>Dr. Syed Muhammad Hyder Naqvi</b>	MBBS, M.S.B.E.	Associate Professor
<b>Dr. Syed Nauman Raza</b>	MBBS, MPH	Assistant Professor
<b>Dr. Munir Ahmed Shaikh</b>	MBBS, M.S.B.E.	Assistant Professor
<b>Dr. Munir Ahmed</b>	MBBS	Senior Lecturer
<b>Dr. Amara Memon</b>	MBBS, MPH	Senior Lecturer

<b>DEPARTMENT OF OPHTHALMOLOGY</b>		
<i>Name</i>	<i>Qualifications</i>	<i>Designation</i>
<b>Prof. M.S. Fahmi</b>	MBBS, MCPS, FCPS	Chairman & Professor
<b>Prof. Mir Amjad Ali</b>	MBBS, FCPS	Professor

<b>DEPARTMENT OF ENT</b>		
<i>Name</i>	<i>Qualifications</i>	<i>Designation</i>
<b>Prof. Dr. Muhammad Shaheen Malik</b>	MBBS, DLO, FCPS (ENT)	HOD & Professor
<b>Dr. Muhammad Khalid</b>	MBBS, DLO, FCPS (ENT)	Assistant Professor
<b>Dr. Maria Mehmood</b>	MBBS, FCPS (ENT)	Assistant Professor
<b>Dr. Rehana Babar</b>	MBBS, FCPS (ENT)	Assistant Professor
<b>Dr. Muhammad Ahsan Khan</b>	MBBS	Senior Lecturer

<b>DEPARTMENT OF MEDICAL EDUCATION</b>		
<i>Name</i>	<i>Qualifications</i>	<i>Designation</i>
<b>Dr. Shams Nadeem Alam</b>	MBBS, FRCS, MHPE	Director DME, BMU
<b>Dr. Saima Qamar Naqvi</b>	MBBS, FCPS, MHPE	Deputy Director DME, BMC
<b>Dr. Talal Bin Taheer</b>	BDS, DIP - IMPLANTS, CHQP, CHPE, MHPE (Scholar)	Senior Lecturer

## INTRODUCTION TO THE INTEGRATED CURRICULUM (SPIRAL- II) FOR 4<sup>TH</sup> YEAR MBBS

The integrated curriculum for 4th year MBBS is developed on the principle of Organ-System based integration. It offers level seven integration i.e., “correlation” according to **Harden’s 11 levels of Integration**.

Therefore, the emphasis is on disciplines with integrated clinical teaching sessions bringing together areas of common interest to each subject. For example, for the module of GIT and hepatobiliary system, the students will first study the content from the perspective of each subject. In the last week of the module, they meet for an integrated case-based learning session where the discussion may focus around a medical case illustrating different signs and symptoms. The contributions of the different subjects are used to understand the case, which is reflected in the learning objectives. Sometimes a project or assignment may be given to students to integrate the subjects. The students may require submitting a written assignment or to present a report on the case at an integrated panel discussion session.

The integrated curriculum of 4<sup>th</sup> year MBBS program is divided in to 5 modules as per the academic plan of BMC. Each module has a separate module guide. It is required that the students shall go through the respective module guide one by one as for each module.



**Integration is Key**



## CURRICULUM INTEGRATION COMMITTEE (CIC)

Name	Designation
<b>Prof. Dr. Nazia Jameel</b>	Head CIC Spiral II
<b>Dr. Sarah Azhar</b>	Head CIC Spiral II
<b>Dr. Maeesa Sajeel</b>	Member, 4 <sup>th</sup> year MBBS Class Coordinator
<b>Prof. Dr. M.S. Fahmi</b>	Member, Department of Ophthalmology
<b>Dr. Abdul Ghaffar</b>	Member, Department of Surgery & Allied
<b>Dr. Amara Altaf</b>	Member, Department of Community Medicine
<b>Dr. Dania Faisal</b>	Member, Department of Medicine & Allied
<b>Dr. Faraz Saleem</b>	Member, Department of Pharmacology
<b>Dr. Hina Amjad</b>	Member, Department of Pharmacology
<b>Dr. Nasima Iqbal</b>	Member, Department of Pathology
<b>Dr. Nikhat Ahsan</b>	Member, Department of Obstetrics & Gynecology
<b>Dr. Rehana Babar</b>	Member, Department of ENT
<b>Dr. Saadia Akram</b>	Member, Department of Obstetrics & Gynecology
<b>Dr. Tahira Saeed</b>	Member, Department of Pediatrics
<b>Dr. Zulfiqar H. Naqvi</b>	Member, Department of Community Medicine
<b>Ms. Maria Rahim</b>	Member, Department of Research

## TEACHING METHODOLOGIES

		
<p><b>Interactive Lectures</b></p>	<p><b>Case based Learning</b></p>	<p><b>Student's Presentations</b></p>
		
<p><b>Flipped Classroom</b></p>	<p><b>Small group discussions</b></p>	<p><b>Practical demonstration</b></p>
		
<p><b>Hands-on practice of clinical skills in a simulated environment</b></p>	<p><b>Virtual teaching sessions</b></p>	<p><b>Self-directed learning</b></p>

## ASSESSMENT METHODS

### 1. Formative Assessment

- Assignment
- Quiz (face to face or online)
- Student Presentation
- Class participation in small group discussions & case-based learning sessions
- Project / Poster

\* 4<sup>th</sup> year MBBS Students are directed to maintain their practical journals & logbooks for formative assessment.

### 2. Summative Assessment

#### • Modular Exam:

With reference to the Assessment Policy of BMC, dated 14-06-21) (Point 5: Process; Summative assessment point a, b & d); a single modular exam will be conducted at the end of each module which will include all the subjects of basic medical sciences.

\*Module exam will be assessed by any of the following assessment methods:

- MCQ
  - SEQ
  - OSPE.
  - Annual Exam:
    - Internal Evaluation = 20%
    - Final Exam= 80%
- Theory: MCQs, EMQs & SAQs  
Practical: Viva & OSPE



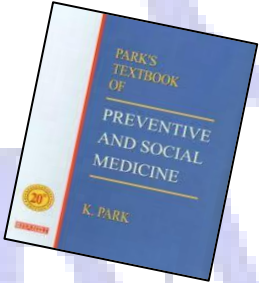
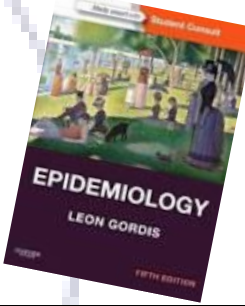
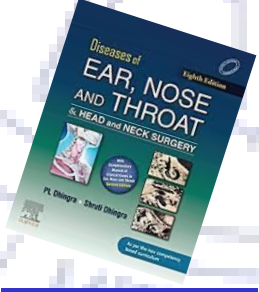
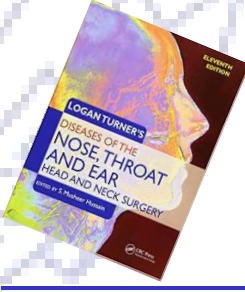


## SUGGESTED READING BOOKS

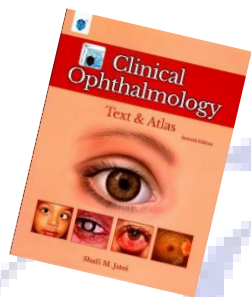

PATHOLOGY			
<p><b>Robbins &amp; Cotran Pathologic Basis of Disease</b> 10<sup>th</sup> Edition Kumar, Abbas &amp; Aster</p>		<p><b>Pathology Illustrated</b> 8<sup>th</sup> Edition Alasdair D. T. Govan</p>	
<p><b>Curran's Atlas of Histopathology</b> 4<sup>th</sup> Edited Edition Robert Curran</p>		<p><b>Rubin's Pathology: Clinicopathologic Foundations of Medicine</b> 6<sup>th</sup> Edition Raphael Rubin &amp; David S. Strayer</p>	
PHARMACOLOGY & THERAPEUTICS			
<p><b>Basic and Clinical Pharmacology</b> 14<sup>th</sup> Edition Bertram Katzung</p>		<p><b>Lippincott's illustrated review of Pharmacology</b> 7<sup>th</sup> Edition Karen Whalen</p>	
<p><b>Katzung and Trevor's Pharmacology Examination and Board Review</b> 14<sup>th</sup> Edition Katzung and Trevor</p>		<p><b>Goodman &amp; Gilman The Pharmacological Basis of Therapeutics</b> 14<sup>th</sup> Edition Laurence L Brunton &amp; Bjorn C. Knollmann</p>	



## SUGGESTED READING BOOKS

COMMUNITY MEDICINE			
<p><b>Public Health &amp; Community Medicine</b> 8<sup>th</sup> Edition M. Ilyas</p>		<p><b>Public Health &amp; Preventive Medicine</b> 13<sup>th</sup> Edition Maxcy- Rosenau-Last</p>	
<p><b>Park's Textbook of Preventive &amp; Social Medicine</b> 20<sup>th</sup> Edition K. Parks</p>		<p><b>Epidemiology</b> 5<sup>th</sup> Edition Leon Gordis</p>	
ENT			
<p><b>Diseases of Ear, Nose and Throat</b> 8<sup>th</sup> Edition P.L. Dhingra &amp; Shruti Dhingra</p>		<p><b>Logan Turner's Diseases of the Nose, Throat and Ear, Head and Neck Surgery</b> 11<sup>th</sup> Edition Musheer Hussain</p>	

## SUGGESTED READING BOOKS

OPHTHALMOLOGY			
<p><b>Clinical Ophthalmology</b> 4<sup>th</sup> Edition Shafi M. Jatoi</p>		<p><b>ABC of Eyes</b> 4<sup>th</sup> Edition P. Shah, P.T. Khaw &amp; A.R. Elkington</p>	
RESEARCH METHODOLOGY			
<p><b>Introduction to Research in Health Sciences-</b> Stephen Polgar, Shane A. Thomas</p>		<p><b>Epidemiology</b> 5<sup>th</sup> Edition Leon Gordis</p>	



## SUGGESTED WEBSITES & SEARCH ENGINES

	
<p><a href="https://www.medscape.com">https://www.medscape.com</a></p>	<p><a href="https://www.PathologyOutlines.com">https://www.PathologyOutlines.com</a></p>
	
<p><a href="https://pubmed.ncbi.nlm.nih.gov">https://pubmed.ncbi.nlm.nih.gov</a></p>	<p><a href="https://scholar.google.com">https://scholar.google.com</a></p>
	
<p><a href="https://medlineplus.gov">https://medlineplus.gov</a></p>	<p><a href="https://medicine.nus.edu.sg/pathweb">https://medicine.nus.edu.sg/pathweb</a></p>



**Baqai Medical College**  
**Baqai Medical University**

51-Deh Tor, Gadap Road, Superhighway. P.O Box: 2407, Karachi-75340, Pakistan.

(092-21)34410-293 to 298, 34410-427 to 430

Fax: (092-21)34410-317, 34410-431

Email: [info@baqai.edu.pk](mailto:info@baqai.edu.pk), Web: [www.baqai.edu.pk/](http://www.baqai.edu.pk/)