

**WMC Exit Outcomes MBBS Graduates**

At the end of our five year MBBS program, the graduates should be able to:

**Anatomy**

Program Learning outcomes	1	2	3	4	5	6	7	8
<b>Foundation of basic sciences: Anatomy</b>								
1. Interpret the anatomical basis of common clinical problems related with limbs, thorax, abdomen, pelvis, brain, head & neck by correlating the normal structure of human body with its functions(PLO 1,2,5,6,8)	★ ★★★★	★ ★★★★			★ ★★★★	★ ★★★★		★ ★★★★
2. Demonstrate professionalism, effective communication skills, ethics and leadership while participating in all learning activities including dissection, Surface marking, CBLs and practicals (PLO 1,2,3,6,7,8)	★ ★★★★	★ ★★★★	★ ★★★★			★ ★★★★	★ ★★★★	★ ★★★★
3. Relate the histomorphological features of cell, basic tissues, & systems of human body with their functions and biochemical features to analyze the pathological outcome of their altered structure (PLO 1,2,6,8)	★ ★★★★	★ ★★★★				★ ★★★★		★ ★★★★
4. Analyze the embryological basis of common congenital anomalies related with human development for creating health care strategies aimed at better reproductive outcomes (PLO 1,2,5,6,8)	★ ★★★★	★ ★★★★			★ ★★★★	★ ★★★★		★ ★★★★
5. Identify the basic features of a research article (PLO 4)				★ ★★★★				

**Physiology**

	1	2	3	4	5	6	7	8
<b>Foundation of basic sciences: Physiology</b>								
1. Identify the various processes involved in the normal functioning of the body. (PLO5, 6, 8)						★ ★★★★		★ ★★★★
2. Relate the interconnections of various organ systems in maintenance of homeostasis/ normal functioning of the body. (PLO 5, 6, 8)						★ ★★★★		★ ★★★★
3. Appraise the pathophysiological features of common clinical disorders. (PLO 1, 2, 5, 6, 8)	★ ★★★★	★ ★★★★			★ ★★★★	★ ★★★★		★ ★★★★
4. Operate commonly used instruments practiced in clinical & laboratory procedures. (PLO 1, 2, 3, 5, 6, 7, 8)	★ ★★★★	★ ★★★★	★ ★★★★		★ ★★★★	★ ★★★★	★ ★★★★	★ ★★★★
5. Demonstrate effective presentation, communication skills, group dynamics, team building, ethics, professionalism, leadership and role modeling while participating in the group activities/ practicals / CBLs. (PLO 3, 5, 7)			★ ★★★★		★ ★★★★		★ ★★★★	★ ★★★★
6. Enlist the basic features of a research article. ( PLO 4)				★ ★★★★				★ ★★★★

**Biochemistry**

	1	2	3	4	5	6	7	8
<b>Foundation of basic sciences: Biochemistry</b>								
1- Describe the structure and functions of the biomolecules found in human cell (PLO 6,8)						★ ★★★★		★ ★★★★
SLO2- Relate the significance of chemistry of biomolecules to their metabolisms at molecular level (PLO 6,8)						★ ★★★★		★ ★★★★
SLO3- Apply the knowledge of metabolism to understand relative metabolic disorder and diseases (PLO 6,8)						★ ★★★★		★ ★★★★
SLO4- Integrate the role of different body organs in regulation of metabolisms in health and disease (PLO 4,6,8)				★ ★★★★		★ ★★★★		★ ★★★★
SLO5- Analyze the basic principle of endocrinology along with biochemical basis and related abnormalities (PLO 6,8)						★ ★★★★		★ ★★★★
SLO6- Illustrate the nutritional requirements of a normal human body and in commonly occurring disorders (PLO 1,4,6,8)	★ ★★★★			★ ★★★★		★ ★★★★		★ ★★★★
SLO7-Estimate clinically important metabolites and enzymes in blood and co-relate their clinical importance in diagnosis of respective disease (PLO 1,4,6,8)	★ ★★★★			★ ★★★★		★ ★★★★		★ ★★★★

Pharmacology								
	1	2	3	4	5	6	7	8
Foundation of Pre-clinical sciences: Pharmacology								
1. Correlate the significance of core concepts of pharmacokinetics and pharmacodynamics of frequently used drugs to their therapeutic relevance.(PLO 1,2)								
2. Plan the rational drug treatment strategies for common health diseases in our community.(PLO 1,2,3,5)								
33. Identify, manage, and report the potential adverse drug reactions (ADR) and drug- drug interactions during polypharmacy.(PLO 3,5)								
4. Analyze the importance of pharmacogenetics in drug response variability.(PLO 4,5,6)								
5. Demonstrate the effects of various drugs on experimental animals relevant to their clinical applications.(PLO 6)								
6. Display attributes of professionalism, leadership, and life long-learner during all academic activities.(PLO 1,3,7,8)								
Forensic Medicine								
	1	2	3	4	5	6	7	8
Foundation of Pre-clinical sciences: Forensic Medicine								
1. Evaluate the role of FM& Toxicology in relationship to public, state and judiciary.(PLO 5)								
2. Analyse the cause , manner, mode and mechanism of death and differencite them from general cases.(PLO 3,6)								
3. Interpret the laws related to medical man and explain relevent legal / court procedures applicable to medico legal / medical practice. (PLO 7)								
4. Analyse the autopsy findings to uncover the cause of death and write the comprehensive medico legal report.(PLO 3,6)								
5. Differentiate the forensic importance of biological specimens ( blood, semen, saliva,etc ) and collect, preserve and dispatch these specimens to forensic science Lab for necessary examination.(PLO 6)								
6. Manage the toxicological cases in acute and chronic exposure and interpret it in living and dead cases in relationship to law .(PLO 1,2,5)								
7. Apply ethical principles of forensic medicines according to the expectations of the community and maintain the dignity and honor of the medical profession. (PLO 3,8)								
Pathology								
	1	2	3	4	5	6	7	8
Foundation of Pre-clinical sciences: Pathology								
Apply the knowledge of Pathology to interpret the sign & symptoms of underlying common diseases and correlate these to various diagnostic techniques. (PLO 1, 2, 3, 4, 5, 6, 7)								
2. Interpret the sign, symptoms and lab reports of patients with stress and toxic insults and correlate the findings with the cellular responses. (PLO 2, 3, 4, 5, 6, 7)								
3. Correlate the etiology, clinical features, pathogenesis, laboratory findings, morphological features and clinic-pathological consequences with treatment and preventive measures for the prevalent conditions. (General Pathology/ Microbiology in 3rd year & Special Pathology in 4th year) (PLO 2, 3, 5, 6, 7)								
4. Analyze & present collected lab data and demonstrate professionalism and leadership in all learning activities (PLO 1, 7, 8)								
Community Medicine								
	1	2	3	4	5	6	7	8
Foundation of Pre-clinical sciences: Community Medicine								
1. Interpret measurement of all health problems/issues affecting people at individual and community levels right from birth to death by adopting statistic, research and ethical approaches(PLO 2,3,4,6,7,8)								
2) Design and recommend measures for prevention, protection and education about the identified problems.(PLO 1,3,5,6,7,8)								
3) Evaluate the existing service for its suitability to cater for needs of the people and recommend modifications need fully.(PLO 6,8)								
4) Analyze and present collected data regarding the health issues and health services. (PLO 3,4,6,7,8)								
5) Demonstrate professionalism and leadership in all learning activities. (PLO 3,7)								
6) Describe composition, functions and programs of various international health agencies for national and international health care.(6)								

Ophthalmology								
	1	2	3	4	5	6	7	8
Foundation of Clinical sciences:Ophthalmology								
1. Provide primary eye care for various ophthalmic diseases including emergencies and if required, refer the patients to appropriate centers (PLO 1,6)								
2. Perform various ophthalmic examination methods essential for all practitioners. (PLO 1,2,6)								
3. Communicate effectively with the patient, family and community regarding eye diseases and their related issues (PLO 1,2,6)								
4. Perform essential minor surgical procedures. (PLO 1,2)								
5. Apply principles of medical ethics pertaining to Ophthalmology. (PLO 3)								
6. Provide awareness regarding prevention of common public ophthalmic health problems. (PLO 5)								
ENT								
	1	2	3	4	5	6	7	8
Foundation of Clinical sciences: ENT								
1.Diagnose & manage diseases of ear and facial nerve. (PLO1,3,6,7,8)								
2. Diagnose & manage diseases of nose & para nasal sinuses. (PLO1,3,6,7,8)								
3. Diagnose & manage diseases of Oral cavity & throat. (PLO1,3,6,7,8)								
4. Provide primary ENT care for various ENT diseases including emergencies if required , refer the patient to appropriate centre (PLO1,3,6,7,8)								
5. Provide awareness regarding prevention of common public ENT health problems (PLO5,7,8)								
6.Apply principles of medical ethics pertaining to ENT Enlist recent advances in ENT (PLO6)								
Gynaecology								
Program Learning outcomes	1	2	3	4	5	6	7	8
Foundation of Clinical sciences: Gynaecology								
Subject-specific Learning outcomes								
1. Diagnose and manage / refer common Gynecological problems of individuals and community appropriate to their position as a member of health care team at primary, secondary and tertiary levels. (PLO1,PLO2)								
2. Formulate diagnosis and rationalize management of antenatal, intrapartum and postnatal period of normal and abnormal pregnancy(PLO1,PLO2).								
3. Suggest preventive measure for the common public health problem related to Gynae & Obs in the community.(PLO5)								
4.Demonstrate communication skills both verbal and written to establish effective communication with patients, relatives and health team partners.(PLO7)								
5.Demonstrate attributes of self directed learning for a life time.(PLO6,PLO8)								
6. Demonstrate professional values of empathy, altruism, confidentiality and cultural sensitivity.(PLO3)								
7. Act as a leader at primary health care facility utilizing local resources and personnel.(PLO1,PLO2,PLO3,PLO5,PLO6,PLO7,PLO8)								

Peds								
	1	2	3	4	5	6	7	8
Foundation of Clinical sciences: Peds								
1. Apply the principles of health promotion, disease prevention, infection control and evidence based management to control common diseases in children & neonates.(PLO 1,5)								
2. Generate differential diagnosis and plan management on basis of clinical skill of history taking & physical examination of common pediatrics diseases.(PLO 1 ,2,6)								
3. Perform basic pediatric procedures to handle common pediatric emergencies under supervision. (PLO 2)								
4. Display a compassionate and ethical attitude toward the patient and parents (PLO 3,7)								
5. Demonstrate practices of continuing self-education (PLO 8)								
6. Enlist prevalent pediatric illnesses and suggest prevention plan (PLO 1,6,8)								
7. Demonstrate the role of leader in group learning (PLO 8)								
Surgery								
	1	2	3	4	5	6	7	8
Foundation of Clinical sciences: Surgery								
1.Obtain history and diagnose, investigate, plan preop/Postop for surgery.(PLO 1,2)								
2.Suggest preventive measure for the common Public Health Problem in the community (PLO5,6,3)								
3.Perform relevant bedside surgical procedures professionally (PLO 1,2,3,8)								
4.Communicate effectively & accurately to patients, families, colleagues and other professionals(PLO7,3,8)								
5. Apply principles of medical ethics pertaining to surgery (PLO6,3)								
6.Apply Evidence-based medicine to the individual patient situation or relevant patient population. (PLO8,4)								
Medicine								
	1	2	3	4	5	6	7	8
Foundation of Clinical sciences: Medicine								
1. Diagnose common Medical conditions, suggest and formulate appropriate investigations, rationalize treatment plan and if appropriate, refer patient for specialist opinion/ management. PLO 1,6 ,7								
2. Suggest preventive measure for the common Public Health Problem in the community.PLO 5 ,7								
3. Perform relevant bedside procedures.PLO 2,6								
4. Convey relevant information and explanations accurately to patients, families, colleagues and other professionals.PLO 1 , 6,7								
5. Understand medical ethics and its application pertaining to medicine and maintain the confidentiality of the patient.PLO 3								
6. Adapt research findings appropriately to the individual patient situation or relevant patient population PLO 4,8								