PROGRAM LEARNING OUTCOMES MBBS FMDC ABBOTTABAD

	NQF Learning Domains and Learning Outcomes	Teaching Strategies	Assessment Methods
	Knowledge		
1.0	By the end of the program, the graduate will have acquired scientific knowledge & understanding of the following domains of learning and will be able to: –		
1.1	· Explain the microscopic, macroscopic and gross structure of different organ systems in the human body, including musculoskeletal system with their clinical correlation.	Interactive Lectures Problem based learning Tutorial sessions Group discussions	1. MCQs using stem statements and clinical scenarios. 2. SAQ's Short Answer questions.
1.2	· Explain the normal functions of the human body at the molecular, cellular and organ level with their regulation.		
1.3	· Describe the basic biochemical reactions, synthesis and function of body enzymes and hormones, metabolism of carbohydrate, proteins and lipids with their clinical correlation and basics of human genetics.		
1.4	· Describe the general principles and concepts of diseases along with etiology, pathogenesis, gross and microscopic morphology of diseases in different organ systems.		
1.5	· Describe the pharmacokinetics and pharmacological properties of different drugs in common use for human diseases with their different actions, adverse effects and interactions.	Same as above	Same as above
1.6	· Describe life cycle, mode of transmission and microbiological properties of pathogens affecting human body including bacteria, viruses and parasites, with emphasis on body defense mechanism with their immunological bases and autoimmune diseases.	Same as above	Same as above

1.7	· Recognize basics of forensic medicine and Toxicology along with their clinical applications.	Same as above	Same as above
1.8	· Recognize clinical presentations, differential diagnosis, investigations and principles of treatment of common diseases affecting the pediatrics age group including congenital and developmental diseases.	Same as above	Same as above
1.9	· Recognize clinical presentations, differential diagnosis, investigations and principles of treatment of common internal medicine, psychiatric and dermatological diseases including medical emergencies.	Same as above	Same as above
1.10	· Recognize clinical presentations, differential diagnosis, investigations and principles of treatment of common surgical diseases including diseases of the eye and ear and their surgical emergencies.	Same as above	Same as above
1.11	· Recognize clinical presentations, differential diagnosis, investigations and principles of treatment of common gynecological diseases and stages of normal and abnormal pregnancy and delivery with their complications.	Same as above	Same as above
1.12	· Recognize basics of biostatistics and methods of medical research.	Same as above	Same as above
	Competence		
2.0	By the end of the program, the graduate will have acquired scientific knowledge & understanding of the following domains of learning and will be able to: –		
2.1	· Explain the principles of problem solving & management strategies.		
2.2	· Analyze symptoms and signs of different diseases with their impact in differential diagnosis.	– Interactive Lectures – Group discussions	– Examination questions will be based on the analytical thinking.

2.3	· Interpret the results of commonly used diagnostic procedures (laboratory and radiological).	– Group assignments.	– Group Assignments Analyzed using check lists / Rubrics.
2.4	· Show respect, empathy and responsibility with the patients and respect for their privacy and dignity.	– Interactive lectures – Tutorial sessions – Skills lab sessions with the Role Plays – Hospital clinical sessions	Assignments evaluation by rubrics Skills lab OSCE through checklist including communication skills. Clinical case discussion through checklist including communication skills as one integral item Formative Assessment through Professional behavior form.
2.5	· Demonstrate communication with the patients and to provide knowledge to patients and their families about the possible therapies and risks in alternative treatment along with obtaining informed consent.	Same as above	Same as above
2.6	· Demonstrate how to work with the colleagues in a team and to seek consultation from senior doctors.	Same as above	Same as above
2.7	· Illustrate and present different case studies and give accurate and clear oral summary of the patient's illness.	Same as above	Same as above