



ELIGIBILITY REQUIREMENT	Program Learning Outcome Assessment Plan
DOCUMENT TITLE	Program Learning Outcome Assessment Plan in Bachelor of Medicine and Surgery (MBBS) 2018
DOCUMENT DESCRIPTION	The Program Learning Outcomes Assessment Plan in Bachelor of Medicine and Surgery (MBBS) for academic year 2018-2019.



PROGRAM LEARNING OUTCOMES ASSESSMENT PLAN IN BACHELOR OF MEDICINE AND SURGERY (MBBS) AY 2018-2019

PLO	Program Learning Outcomes	Block Title	Block-Course Learning Outcomes	Assessment tasks	Assessment schedule (Year Level & Quarter)	Measurement
Knowledge						
K1	Interpret the principles of structures and functions, health, psychological, pharmacological, medical (basic, social and clinical sciences) and underlying principles.	Medicine	Recognize the anatomical and physiologic mechanisms that explain the key findings of common Internal Medicine Disorders (e.g. Endocrine, Cardiac, Etc.)	<ul style="list-style-type: none"> Written examinations (Problem Solving) Objective Structured Clinical Examination (OSCE) Case Presentations Interactive Seminar 	Year 5, Quarters 1-4	• Raw score (Grade)
		Orthopedics	Recognize the physiologic mechanisms that explain key findings in the history of common orthopedic diseases. (Which include Trauma, Sports, arthroplasty, Spine and Rheumatology)	<ul style="list-style-type: none"> Written examinations (Problem Solving) Objective Structured Clinical Examination (OSCE) Case Presentations Interactive Seminar 	Year 5, Quarters 1-4	• Raw score (Grade)
K2	Discuss common disease's clinical manifestations, differential diagnosis and consequences of diseases including the principles of early diagnosis of malignancy, common medical and surgical emergencies keeping in mind basic sciences knowledge.	Medicine	Discuss clinical manifestations of common Internal Medicine diseases and corresponding differential diagnosis and complications, correlating the same with the basic pathological features.	<ul style="list-style-type: none"> Written examinations (Problem Solving) Objective Structured Clinical Examination (OSCE) Case Presentations Interactive Seminar 	Year 5, Quarters 1-4	• Raw score (Grade)
		Surgery	Recognize the physiologic mechanisms, etiologies, pathophysiology, clinical features, differential diagnosis, and related diagnostic testing and management of common surgical diseases –that explain key findings in the history of common surgical diseases –including but not limited to thyroid, breast GIT, acute & chronic abdominal and urinary disorders.	<ul style="list-style-type: none"> Written examinations (Problem Solving) Case Presentations 	Year 5, Quarters 1-4	• Raw score (Grade)
		Orthopedics	Describe the etiologies, pathophysiology, clinical features, differential diagnosis, and related diagnostic testing and management of common orthopedic diseases (Which include Trauma, Sports, arthroplasty, Spine and Rheumatology)	<ul style="list-style-type: none"> Written examinations (Problem Solving) Objective Structured Clinical Examination (OSCE) Case Presentations Interactive Seminar 	Year 5, Quarters 1-4	• Raw score (Grade)
K3	Explain different management for common clinical situations including common diagnostic tools, both the pharmacological and non- pharmacological therapies considering the different medical, social, psychological and cultural backgrounds	Medicine	Explain the management of common Internal Medicine disorders including common diagnostic tools and interpretation of the same and pharmacological and non-pharmacological therapies, considering the different medical, social, psychological and cultural backgrounds.	<ul style="list-style-type: none"> Written examinations (Problem Solving) Objective Structured Clinical Examination (OSCE) Case Presentations Interactive Seminar 	Year 5, Quarters 1-4	• Raw score (Grade)
		Surgery	Describe the etiologies, pathophysiology, clinical features, differential diagnosis, and related diagnostic testing and management of common infections in surgery and wound care including management of burns patients and plastic/reconstructive surgery	<ul style="list-style-type: none"> Written examinations (Problem Solving) Case Presentations 	Year 5, Quarters 1-4	• Raw score (Grade)
K4	Outline the ethical principles of research, basic principles of scientific research methods, biomedical statistics and data management.	Primary Health Care	Studying the influence of psychosocial factors on illness frequency, care-seeking, and compliance with therapy	<ul style="list-style-type: none"> Written examinations (Problem Solving) Objective Structured Clinical Examination (OSCE) Formative Assessment 	Year 5, Quarters 1-4	• Raw score (Grade)
		Social Medicine	Outline the practical steps required to implement health education program tailored to the evolving health problems and health related behaviors.	<ul style="list-style-type: none"> Written examinations (Problem Solving) Student Portfolio 	Year 5, Quarters 1-4	• Raw score (Grade)



Skills						
S1	Apply clinical reasoning, critical and analytical skills in discussing the patient's complaints, presenting the different possible solutions and therapies while considering the different medical, social, psychological and cultural backgrounds keeping in mind basic sciences knowledge.	Medicine	Apply clinical reasoning, critical and analytical skills in discussing the patient's complaints related to Internal Medicine diseases, presenting the different possible solutions and therapies while considering the different medical, social, psychological and cultural backgrounds keeping in mind basic sciences knowledge.	<ul style="list-style-type: none">• Written examinations (Problem Solving)• Objective Structured Clinical Examination (OSCE)• Case Presentations• Interactive Seminar	Year 5, Quarters 1-4	• Raw score (Grade)
		Medicine	Integrate and organize the historical, physical, and investigative findings into a meaningful differential diagnosis formulation in the context of Internal Medicine disorders.	<ul style="list-style-type: none">• Written examinations (Problem Solving)• Objective Structured Clinical Examination (OSCE)• Case Presentations• Interactive Seminar	Year 5, Quarters 1-4	• Raw score (Grade)
		Surgery	Complete a patient's history and physical exam in a logical organized and thorough manner formulating a differential diagnosis based on the findings from the history and physical examination and apply differential diagnosis to help guide diagnostic test ordering and sequencing.	<ul style="list-style-type: none">• Final term Problem-solving questions• Student case presentations (formative), mini-CEX, short clinical case (real patients at bedside)• Clinical exam (OSCE)• Interactive seminar and CPC• Log book	Year 5, Quarters 1-4	• Raw score (Grade)
		Orthopedics	Complete a patient's history and physical exam in a logical organized and thorough manner	<ul style="list-style-type: none">• Written examinations (Problem Solving)• Objective Structured Clinical Examination (OSCE)• Case Presentations• Interactive Seminar	Year 5, Quarters 1-4	• Raw score (Grade)
S2	Integrate and organize the historical, physical, and investigative findings into a meaningful differential diagnosis formulation, including identifying the most probable diagnosis in a patient.	Surgery	Evaluate and prioritize problems with which a patient presents, appropriately synthesizing these into logical clinical disorders Formulating an initial therapeutic plan and explain the extent to which the therapeutic plan is based on pathophysiologic reasoning and scientific evidence of effectiveness.	<ul style="list-style-type: none">• Final term Problem-solving questions• Student case presentations (formative), mini-CEX, short clinical case (real patients at bedside)• Clinical exam (OSCE)• Interactive seminar and CPC• Log book	Year 5, Quarters 1-4	• Raw score (Grade)
		Orthopedics	Evaluate and prioritize problems with which a patient presents, appropriately synthesizing these into logical clinical syndromes.	<ul style="list-style-type: none">• Written examinations (Problem Solving)• Objective Structured Clinical Examination (OSCE)• Case Presentations• Interactive Seminar	Year 5, Quarters 1-4	• Raw score (Grade)
S3	Recognize the reflection methodology and demonstrate transparent and efficient reflective attitude in both academic and clinical situations	Orthopedics	Formulate a differential diagnosis based on the findings from the history and physical examination and apply differential diagnosis to help guide diagnostic test ordering and sequencing.	<ul style="list-style-type: none">• Standardized oral examinations• OSCE	Year 5, Quarters 1-4	• Raw score (Grade)
		Psychiatry	Design effective therapeutic and ongoing management of an individual patient in the context of psychological diseases	<ul style="list-style-type: none">• Standardized oral examinations• OSCE	Year 5, Quarters 1-4	• Raw score (Grade)
S4	Design effective therapeutic and ongoing management of an individual patient and population at large besides drafting of diagnosis and/or treatment plans with description of the different therapeutic modalities	Medicine	Design effective therapeutic and ongoing management of an individual patient in the context of Internal Medicine diseases	<ul style="list-style-type: none">• Written examinations• Standardized oral examinations• OSCE	Year 5, Quarters 1-4	• Raw score (Grade)
		Orthopedics	Formulate an initial therapeutic plan (both surgical and non-surgical, whenever needed so) and explain the extent to which the therapeutic plan is based on pathophysiologic reasoning and scientific evidence of effectiveness.	<ul style="list-style-type: none">• Written examinations (Problem Solving)• Objective Structured Clinical Examination (OSCE)• Case Presentations• Interactive Seminar	Year 5, Quarters 1-4	• Raw score (Grade)



	therapeutic modalities	Primary Health Care	Applying principles of clinical epidemiology and clinical decision making to common illnesses	<ul style="list-style-type: none"> Written examinations (Problem Solving) Objective Structured Clinical Examination (OSCE) Formative Assessment 	Year 5, Quarters 1-4	• Raw score (Grade)
S5	Apply epidemiological aspects in practice including practicing infection control at all levels and transfer patient safety guidelines to the practical level.	Orthopedics	Summarize basic diagnostic tools and select a plan of management for common orthopedic diseases. (Which include Trauma, Sports, arthroplasty, Spine and Rheumatology)	<ul style="list-style-type: none"> Written examinations (Problem Solving) Objective Structured Clinical Examination (OSCE) Case Presentations Interactive Seminar 	Year 5, Quarters 1-4	• Raw score (Grade)
S6	Elicit relevant information and perspectives from patients and their supporters, relatives, colleagues, and other professionals.	Surgery	Employ skills of consultation with other physicians and other health care professionals or patient relatives with team work spirit.	<ul style="list-style-type: none"> Direct observation and feedback during clinical sessions Mini-CEX OSCE Log book 	Year 5, Quarters 1-4	• Raw score (Grade)
		Orthopedics	Recognize when additional information is needed to care for the patient and demonstrate ongoing commitment to self-directed learning.	<ul style="list-style-type: none"> Written examinations (Problem Solving) Objective Structured Clinical Examination (OSCE) Case Presentations Interactive Seminar 	Year 5, Quarters 1-4	• Raw score (Grade)
		Dermatology	Integrate and organize the historical, physical, and investigative findings into a meaningful differential diagnosis formulation in the context of dermatological disorders.	<ul style="list-style-type: none"> Final term PS will test direct knowledge acquisition related to the objective Student case presentations (formative) Clinical exam (OSCE) 	Year 5, Quarters 1-4	• Raw score (Grade)
S7	Employ skills for both verbal and written communication that accurately convey relevant information and explanations to patients and their relatives considering different types of human behavior under different somatic, psychological and social conditions including conduction of bad news	Orthopedics	Demonstrate ability to answer clinical questions using evidence-based medicine.	<ul style="list-style-type: none"> Written examinations (Problem Solving) Objective Structured Clinical Examination (OSCE) Case Presentations Interactive Seminar 	Year 5, Quarters 1-4	• Raw score (Grade)
		Social Medicine	Demonstrate professionalism with respectable attitude at field training and maintaining data confidentiality all through along the ways of proper conduct and acceptable behaviors	<ul style="list-style-type: none"> Student Portfolio 	Year 5, Quarters 1-4	• Raw score (Grade)
S8	Communicate with colleagues, physicians, and other health professionals in a collaborative, responsive and responsible manner including writing clear and concise medical records.	Primary Health Care	Using appropriate consultation and referral	<ul style="list-style-type: none"> Written examinations (Problem Solving) Objective Structured Clinical Examination (OSCE) Formative Assessment 	Year 5, Quarters 1-4	• Raw score (Grade)
		Social Medicine	Demonstrate effective communication with health team at the primary health care and delegate sources of appropriate knowledge and searching and maintaining key persons and contacts valuable for the field visits	<ul style="list-style-type: none"> Student Portfolio 	Year 5, Quarters 1-4	• Raw score (Grade)
		Professional Development 4	Show responsibility and autonomy in carrying out training related assignments	<ul style="list-style-type: none"> Direct observation Group dynamics Assessment of the learning questions before the sessions and the reflection assignments after the session. 	Year 4, Quarters 1-4	• Raw score (Grade)



S9	Employ information and communication technologies skills to acquire and apply information to manage self-directed learning and collaborative knowledge exchange with ability to facilitate the learning of others as part of professional responsibility	Professional Development 4	Employs skills for communicating information, negotiating, and taking charge; considering different human behaviors under various conditions (psychological and social conditions).	<ul style="list-style-type: none"> • Direct observation • Group dynamics • Assessment of the learning questions before the sessions and the reflection assignments after the session. 	Year 4, Quarters 1-4	• Raw score (Grade)
		Social Medicine	Demonstrate effective communication with health team at the primary health care and delegate sources of appropriate knowledge and searching and maintaining key persons and contacts valuable for the field visits	• Student Portfolio	Year 5, Quarters 1-4	• Raw score (Grade)
		Social Medicine	Effectively construct a teamwork working effectively to elicit and carry out a survey study with the starting point from creation of research questions and finalize with presentation of findings	• Student Portfolio	Year 5, Quarters 1-4	• Raw score (Grade)

Competence						
C1	Perform basic medical skills, a range of simple surgical and pharmacological therapies related to the different disciplines, including first aid and general management in both routine cases and emergencies.	Medicine	Perform basic medical skills and pharmacological therapies, including investigative procedures in both routine cases and in emergency settings related to Internal Medicine.	<ul style="list-style-type: none"> • OSPE • Practical Workshop Assessment (PWA) • OSCE 	Year 5, Quarters 1-4	• Raw score (Grade)
		Surgery	Perform general and local examination of all relevant systems- general, abdominal, GIT, urinary in logical, organized and thorough manner.	<ul style="list-style-type: none"> • Final term Problem-solving questions • Student case presentations (formative), mini-CEX, short clinical case (real patients at bedside) • Clinical exam (OSCE) • Interactive seminar and CPC • Log book 	Year 5, Quarters 1-4	• Raw score (Grade)
		Orthopedics	Demonstrate the competence of history taking in a logical manner for various musculoskeletal conditions and to reach to a differential diagnosis.	<ul style="list-style-type: none"> • Written examinations (Problem Solving) • Objective Structured Clinical Examination (OSCE) • Case Presentations • Interactive Seminar 	Year 5, Quarters 1-4	• Raw score (Grade)
C2	Perform and document a complete and focused physical and mental examination	Medicine	Develop and implement a suitable plan of care for different Internal Medicine problems in a shared view with patients, relatives and peers, including breaking bad news.	<ul style="list-style-type: none"> • Written examinations (Problem Solving) • Objective Structured Clinical Examination (OSCE) • Case Presentations • Interactive Seminar 	Year 5, Quarters 1-4	• Raw score (Grade)
		Surgery	Develop and implement a suitable plan of care for different patient problems in a shared view with patients, relatives and peers.	<ul style="list-style-type: none"> • Final term Problem-solving questions • Student case presentations (formative), mini-CEX, short clinical case (real patients at bedside) • Clinical exam (OSCE) • Interactive seminar and CPC • Log book 	Year 5, Quarters 1-4	• Raw score (Grade)
		Orthopedics	Perform general examination in logical organized and thorough manner	<ul style="list-style-type: none"> • Written examinations (Problem Solving) • Objective Structured Clinical Examination (OSCE) • Case Presentations • Interactive Seminar 	Year 5, Quarters 1-4	• Raw score (Grade)
		Psychiatry	Perform basic psychological skills like Mental state examination in both routine cases and in emergency settings related to psychiatry to come to a diagnosis.	<ul style="list-style-type: none"> • Written examinations (Problem Solving) • Objective Structured Clinical Examination (OSCE) • Logbooks and assignments 	Year 5, Quarters 1-4	• Raw score (Grade)



C3	Develop and tailor the suitable plan of care for different patient problems in a shared view with patients, relatives and peers	Medicine	Apply the principles of teamwork dynamics, leadership processes, ethics, professional and legal standards to enable and support effective medical services and collaboration within an integrative health care environment.	<ul style="list-style-type: none"> • Objective Structured Clinical Examination (OSCE) • Case Presentations 	Year 5, Quarters 1-4	• Raw score (Grade)
		Surgery	Develop a plan for diagnosis and treatment	<ul style="list-style-type: none"> • Final term Problem-solving questions • Student case presentations (formative), mini-CEX, short clinical case (real patients at bedside) • Clinical exam (OSCE) • Interactive seminar and CPC 	Year 5, Quarters 1-4	• Raw score (Grade)
		Orthopedics	Develop and implement a suitable plan of care for different musculoskeletal problems in a shared view with patients, relatives and peers, including breaking bad news.	<ul style="list-style-type: none"> • Written examinations (Problem Solving) • Objective Structured Clinical Examination (OSCE) • Case Presentations • Interactive Seminar 	Year 5, Quarters 1-4	• Raw score (Grade)
C4	Apply the principles of teamwork dynamics and leadership processes to enable and support effective health professional collaboration.	Orthopedics	Demonstrate use of interpersonal communication skills during history taking and examination of cases throughout the clinical training period	<ul style="list-style-type: none"> • Objective Structured Clinical Examination (OSCE) • Case Presentations • Logbook 	Year 5, Quarters 1-4	• Raw score (Grade)
		Primary Health Care	Use critical thinking skills, research skills and evidence-based practice to clinical nutrition services.	<ul style="list-style-type: none"> • Written examinations (Problem Solving) • Objective Structured Clinical Examination (OSCE) • Formative Assessment 	Year 5, Quarters 1-4	• Raw score (Grade)
C5	Design, share and implement some steps in small-scale qualitative, practical or clinical scientific research project.	Orthopedics	Develop and implement a suitable plan of care for different musculoskeletal problems in a shared view with patients, relatives and peers, including breaking bad news.	<ul style="list-style-type: none"> • Objective Structured Clinical Examination (OSCE) • Case Presentations • Logbook 	Year 5, Quarters 1-4	• Raw score (Grade)
		Social Medicine	The students will demonstrate basic skills in accessing research materials from personal, print and electronic sources and provide structured and effective case presentations	<ul style="list-style-type: none"> • Student Portfolio 	Year 5, Quarters 1-4	• Raw score (Grade)
C6	Appropriately comply with ethical, Professional and legal aspects in dealing with patients medical problems and Colleagues.	Orthopedics	Show skills of consultation with other physicians and other health care professionals with teamwork spirit.	<ul style="list-style-type: none"> • Objective Structured Clinical Examination (OSCE) • Case Presentations • Logbook 	Year 5, Quarters 1-4	• Raw score (Grade)
		Dermatology	Apply the principles of teamwork dynamics, leadership processes, ethics, and professional standards to enable and support effective medical services and collaboration within an integrative health care environment in the context of a Dermatology out patient setting.	<ul style="list-style-type: none"> • Final term PS will test direct knowledge acquisition related to the objective • Student case presentations (formative) • Clinical exam (OSCE) 	Year 5, Quarters 1-4	• Raw score (Grade)

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