



Program Learning Outcomes (PLO)

PLO Code	Knowledge & Understanding (Theoretical, Factual)
K1	Describe the normal structure and function of human body in a comprehensive, coherent manner during the different stages of life
K2	Recognize the various types of human diseases and describe their pathogenesis, and their clinical manifestations.
K3	Describe the principles of management of the various human diseases with emphasis on common condition with community-oriented approach
K4	Describe the basic principles and steps of medical research
K5	Recognize relevant standards and regulations of health facilities and Ministry of Health
	Skills (Practical Application of Knowledge)
S1	Critically-evaluate and integrate medical knowledge from relevant sources for evidence-based decision-making regarding health of individuals and community.
S2	Interpret medical data obtained through patient encounter for postulating provisional diagnosis.
S3	Develop management plans for health problems of the individuals and community.
S4	Safely perform physical examination to identify disease signs.
S5	Safely employ appropriate basic medical diagnostic and interventional procedures in relevant situations
	Values
	Autonomy & Responsibility
V1	Choose their own learning needs and demonstrate responsibility for self-directed learning
V2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate
V3	Show responsibility for advancing personal learning and professional development through continuous medical education.
	Practice
V4	Demonstrate the ability to utilize information and communication technology for learning and evidence-based practice of medicine
V5	Apply relevant mathematical and bio-statistical techniques in medical practice and research.
V6	Use health management information system of the hospital in compliance with regulations, confidentiality, data security and integrity



	Attributes
V7	Demonstrate ethical and professional attitude in personal and professional relationships in health care settings.
V8	Demonstrate written and oral communication skills with colleagues, patients and other stakeholders of health care settings



Course Learning Outcomes (CLO) Aligned with Program Learning Outcomes

Course	Domain	CLO code	Course learning outcomes (CLOs)	Aligned PLO code
Year - 1				
Concepts and Principles of Medical Education CMD 211	Knowledge & Understanding	1.1	Recognize the rationale and basic principles of student-centred, community oriented medical education.	K3
		1.2	Describe the principles and processes of Problem-Based Learning (PBL).	K3
	Skills	2.1	Interpret the acquired knowledge for deeper understanding of the given problem.	S2
	Values	3.1	Analyse a given patient problem scenario to identify your own learning needs.	V1
		3.2	Demonstrate the ability to work effectively in, and lead a PBL group as well as evaluate your own, peer, and tutor performance in the group discussions.	V2
		3.3	Demonstrate responsibility for your own learning.	V3
		3.4	Effectively use available learning resources to search for, collect, organize and integrate needed information.	V4
		3.5	Demonstrate satisfactory written and oral communication skills in presenting information to peers and tutors.	V8
Man, and His Environment and Metabolism CMD 213	Knowledge & Understanding	1.1	Describe the basic homeostatic mechanisms involved in regulation of body temperature, fluid, electrolyte and acid-base state.	K1
		1.2	Describe the structure and role of autonomic nervous system in homeostasis.	K1
		1.3	Describe the potential effects of physical, biological and chemical environmental hazards on body's protective barriers and their role in disease occurrence.	K2
		1.4	Recognize major metabolic pathways, their regulatory mechanisms and the	K2



			effects of their disturbances on disease occurrence.	
	Skills	2.1	Critically interpret & integrate medical knowledge gained through problem solving during PBL sessions.	S1
	Values	3.1	Demonstrate responsibility for self-directed learning.	V1
		3.2	Demonstrate the capability to work effectively in a team and exercise leadership whenever appropriate.	V2
		3.3	Use effectively college's E-learning resources for learning.	V4
Principles of Disease CMD 221	Knowledge & Understanding	1.1	Outline and recognize the basic concepts of general pathology related to cellular injury, infection, inflammation and repair, genetic disorders, hemodynamic disorders and neoplasia.	K2
		1.2	Describe the pathogenesis of various types of human diseases and correlate the pathologic processes with signs and symptoms.	K2
		1.3	Describe the basic concepts of pharmacology particularly related to antibiotics, anti-inflammatory and anticancer drugs.	K3
	Skills	2.1	Interpret the basic concepts of knowledge in biochemistry and microbiology in understanding basis of disease.	S2
	Values	3.1	Demonstrate the ability to work effectively in a team and practice leadership in PBL sessions and seminar presentations.	V2
		3.2	Demonstrate the ability to use information technology in learning through PBL sessions, TBL sessions and seminar presentations.	V4
		3.3	Demonstrate effective written and oral communication skills in learning through PBL sessions, TBL sessions and seminar presentations.	V8
Growth and Development CMD 212	Knowledge & Understanding	1.1	Recognize the basic principles of the process of conception, intrauterine and postnatal development, and the patho-physiological changes in old age.	K1
		1.2	Recognize the specific health care and the psycho-social needs in different stages of life.	K1
	Skills	2.1	Critically evaluate and integrate medical knowledge related to different	S1

			stages of life for evidence-based decision making in various clinical scenarios.	
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning.	V1
		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate.	V2
		3.3	Demonstrate the ability to use information and communication and technology for learning of medicine.	V4
		3.4	Demonstrate written and oral communication skills with colleagues and staff.	V8
Musculoskeletal and Integumentary Systems CMD 222	Knowledge & Understanding	1.1	Describe the normal structure and function of the musculoskeletal system and skin.	K1
		1.2	Describe the pathology behind various diseases that involve the musculoskeletal system and skin.	K2
		1.3	Describe the principles of management of the diseases that involve the musculoskeletal system and skin.	K3
	Skills	2.1	Explain and evaluate medical knowledge from relevant sources, to make evidence-based decision in clinical situations.	S1
	Values	3.1	Illustrate their own learning needs	V1
		3.2	Demonstrate responsibility in teamwork	V2
		3.3	Demonstrate skills of communication, and of information technology use.	V4
Clinical skills I CMD 214	Knowledge & Understanding	1.1	Recognize the common methods of physical examination regarding breast, Musculo-skeletal system, pregnancy, common basic skills like BP, Pulse, temperature, and injections.	K3
	Skills	2.1	Safely perform physical examination of breast appropriately on manikins.	S4
		2.2	Safely perform physical examination of pregnancy on manikins appropriately.	S4
		2.3	Safely perform physical examination of locomotor system on simulated patients appropriately	S4



		2.4	Safely perform physical examination of common basic skills (like BP, Pulse, temperature, and injections) on simulated patients and manikins correctly.	S4
		2.5	Identify signs of common diseases on photographs	S5
	Values	3.1	Able to use the wide array of low to medium to high fidelity models that are used in teaching the skills, in addition to videos, Tapes, CD, Audio-visual methods.	V4
		3.2	Demonstrate ethical and professional attitude in dealing with simulated patients and peers.	V7
		3.3	Demonstrate the ability to communicate with simulated patients & peers.	V8
Health and Illness in the community I HIC 211	Knowledge & Understanding	1.1	Describe health and its determinants, theories of disease causation, levels of care, the philosophy of holistic care and comprehensive care through primary health care approach.	K2
	Skills	2.1	Calculate and interpret various epidemiological measures and vital status indicators using basic bio- statistical principles.	S1
	Values	3.1	Demonstrate the ability to understand and utilize the data on PHC services, weekly and monthly reporting forms.	V4
Year - 2				
Endocrine and Reproductive Systems CMD 322	Knowledge & Understanding	1.1	Describe the development, normal structure and function of the endocrine glands and male and female reproductive systems in a comprehensive coherent manner.	K1
		1.2	Recognize the various types of human diseases affecting the endocrine glands and male and female reproductive systems and describe their pathogenesis and their clinical manifestations.	K2
		1.3	Describe the principles of management of the various human diseases affecting the endocrine glands and male and female reproductive systems with emphasis on common conditions with a community-oriented approach.	K3
	Skills	2.1	Critically evaluate and integrate medical knowledge from relevant sources for evidence-based decision making in clinical scenarios.	S1
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-	V1

			directed learning.	
		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate.	V2
		3.3	Demonstrate the ability to use information and communication technology for learning.	V4
		3.4	Demonstrate written and oral communication skills with colleagues and staff.	V8
Haemopoietic and Immune Systems CMD 311	Knowledge & Understanding	1.1	Describe the development, the normal structures, and function of the Hemopoietic and immune system in a comprehensive coherent manner.	K1
		1.2	Recognize the various types of human diseases affecting the Hemopoietic and immune system and describe their pathogenesis and their clinical manifestations.	K2
		1.3	Describe the principle of management of the various types of human diseases affecting the Hemopoietic and immune system with emphasis on common conditions with community-oriented approach.	K3
	Skills	2.1	Critically–evaluate and integrate medical knowledge from relevant sources for evidence-based decision making in relevant clinical scenarios of haemopoietic & immune system.	S1
		2.2	Interpret medical data obtained through patient encounter and laboratory findings for postulating provisional diagnosis.	S2
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning.	V1
		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate.	V2
		3.3	Demonstrate the ability to use information and communication technology for learning.	V4
		3.4	Demonstrate written and oral communication skills with colleagues and staffs.	V8
	Cardiovascular System CMD 312	Knowledge & Understanding	1.1	Describe the development, the normal structures, and function of the cardiovascular system in a comprehensive coherent manner.
1.2			Recognize the various types of human diseases affecting the cardiovascular system and describe their pathogenesis and their clinical manifestations.	K2

	Skills	1.3	Describe the principle of management of the various types of human diseases affecting the cardiovascular system with emphasis on common conditions with community-oriented approach.	K3
		2.1	Critically-evaluate and integrate medical knowledge from relevant sources for evidence-based decision making in a selected clinical scenario.	S1
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning.	V1
		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate.	V2
		3.3	Demonstrate the ability to use information and communication technology for learning.	V4
		3.4	Demonstrate written and oral communication skills with colleagues and staffs.	V8
	Respiratory System CMD 321	Knowledge & Understanding	1.1	Describe the development, normal structure and function of human respiratory system in a comprehensive and coherent manner.
1.2			Recognize the various types of diseases affecting the Respiratory system and describe their pathogenesis and their clinical manifestations.	K2
1.3			Describe the management of respiratory system diseases	K3
Skills		2.1	Critically evaluate and integrate medical knowledge from relevant sources for evidence-based decisions making in clinical scenarios.	S1
Values		3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning.	V1
		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate.	V2
		3.3	Demonstrate the ability to use information and communication technology for learning.	V4
		3.4	Demonstrate written and oral communication skills with colleagues and staff.	V8
Clinical skills II CMD 313	Knowledge & Understanding	1.1	Recognize the common methods of physical examination regarding endocrine system	K3
		1.2	Recognize the common methods of physical examination regarding Heme & Lymphatic system	K3



		1.3	Recognize the common methods of physical examination regarding Cardiovascular system.	K3
		1.4	Recognize the common methods of physical examination regarding Respiratory system.	K3
	Skills	2.1	Safely perform physical examination of endocrine, heme and lymphatic system, CVS, and respiratory systems appropriately on simulated patients.	S4
		2.2	Perform basic medical procedures related to endocrine, heme and lymphatic system, CVS, and respiratory systems on manikins and simulated patients appropriately e.g. (ECG, IV cannulation, Tapping of pleural fluid)	S4
		2.3	Identify signs of common diseases on photographs	S5
	Values	3.1	Able to use the wide array of low to medium to high fidelity models that are used in teaching the skills, in addition to videos, Tapes, CD, Audio-visual methods.	V4
		3.2	Demonstrate ethical and professional attitude in dealing with simulated patients and peers.	V7
		3.3	Demonstrate the ability to communicate with simulated patients & peers.	V8
	Health and Illness in the community II HIC 311	Knowledge & Understanding	1.1	Describe demography, safe motherhood, research designs and basic steps in medical research.
Skills		2.1	Develop a research proposal for conducting research.	S1
Values		3.1	Demonstrate professional attitude in presenting research proposal.	V7
Year - 3				
Gastrointestinal System CMD 332	Knowledge & Understanding	1.1	Describe the normal development, structure and functions of the organs of gastrointestinal system in comprehensive and coherent manner.	K1
		1.2	Recognize various types of human disorders effecting gastrointestinal system and describe their pathogenesis and clinical manifestations.	K2
		1.3	Describe the principles of management of various gastrointestinal diseases with emphasis on common conditions with community-oriented approach.	K3
	Skills	2.1	Critically evaluate, integrate and interpret the medical knowledge from the relevant sources for evidence-based decision making in a clinical scenario.	S1
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-	V1

			directed learning.	
		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate.	V2
		3.3	Demonstrate the ability to use effectively information and communication technology for learning.	V4
		3.4	Demonstrate the ability to use effectively written and oral communication skills with colleagues and staff.	V8
Urinary System CMD 341	Knowledge & Understanding	1.1	Describe the development, the normal structures, and function of the urinary system in a comprehensive coherent manner.	K1
		1.2	Recognize the various types of human diseases affecting the urinary system and describe their pathogenesis and their clinical manifestations.	K2
		1.3	Describe the principle of management of the various types of human diseases affecting the urinary system with emphasis on common conditions with community-oriented approach.	K3
	Skills	2.1	Critically-evaluate and integrate medical knowledge from relevant sources for evidence-based decision making in a selected clinical scenario.	S1
		2.2	Demonstrate laboratory skills in various disciplines.	S5
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning.	V1
		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate.	V2
		3.3	Demonstrate the ability to use information and communication technology for learning.	V4
		3.4	Demonstrate written and oral communication skills with colleagues and staffs.	V8
	Nervous System, Special Senses and Behavioural Sciences CMD 331	Knowledge & Understanding	1.1	Describe the normal development, structure and function of nervous system, and special senses. Describe the normal human behavior in a comprehensive and coherent manner.
1.2			Recognize the various types of human diseases affecting the nervous system, sensory organs and behavior describe their pathogenesis, and their clinical manifestations.	K2
1.3			Describe the principles of management of various human diseases	K3

			affecting nervous system, sensory organs and behaviour with emphasis on common condition with community-oriented approach.	
	Skills	2.1	Critically-evaluate and integrate medical knowledge from relevant sources for evidence-based decision making.	S1
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning.	V1
		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate.	V2
		3.3	Demonstrate the ability to use information and communication technology for learning.	V4
		3.4	Demonstrate written and oral communication skills with colleagues and faculty.	V8
Integrated Multisystem and Therapeutics CMD 342	Knowledge & Understanding	1.1	Describe the normal structure and function of human body in an integrated comprehensive coherent manner.	K1
		1.2	Recognize common types of human diseases and describe their pathogenesis and their clinical manifestations.	K2
		1.3	Describe the principles of management of common humane diseases with emphasis on common condition with community-oriented approach.	K3
	Skills	2.1	Critically-evaluate and integrate medical knowledge from relevant sources for evidence-based decision making in a clinical scenario.	S1
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning.	V1
		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate.	V2
		3.3	Demonstrate the ability to use information and communication technology for learning.	V4
		3.4	Demonstrate written and oral communication skills with staffs and colleagues.	V8
Clinical skills III CMD 333	Knowledge & Understanding	1.1	Recognize the common methods of physical examination regarding Gastro-intestinal tract.	K3
		1.2	Recognize the common methods of physical examination regarding urinary system	K3



		1.3	Recognize the common methods of physical examination regarding nervous systems	K3
		1.4	Recognize the common basic skills like CPR, first aid measures, and suturing.	K3
	Skills	2.1	Safely perform physical examination of Gastro-intestinal tract appropriately on simulated patients.	S4
		2.2	Safely perform physical examination of Urinary system appropriately on simulated patients.	S4
		2.3	Safely perform physical examination of Nervous system appropriately on simulated patients.	S4
		2.4	Employ common basic medical procedures and manoeuvre's like (catheterization, first aid measures, CPR, suturing) on manikins appropriately.	S4
		2.5	Identify signs of common diseases on photographs	S5
	Values	3.1	Able to use the wide array of low to medium to high fidelity models that are used in teaching the skills, in addition to videos, Tapes, CD, Audio-visual methods.	V4
		3.2	Demonstrate ethical and professional attitude in dealing with simulated patients and peers.	V7
		3.3	Demonstrate the ability to communicate with simulated patients & peers.	V8
Health and Illness in the community III HIC 331	Knowledge & Understanding	1.1	Describe the basic principles and steps of medical research	K4
	Skills	2.1	Use reasoning in critical appraisal of research literature.	S1
		2.2	Should be able to recommend appropriate health promotive and disease preventive measures for occupational & Elderly health.	S3
Values	3.1	Effectively communicate verbally and in writing the research finding.	V8	
Clinical skills IV MED 341	Knowledge & Understanding	1.1	Outline the steps of recording elaborate medical and surgical history.	K2
		1.2	Recognise the methods of general physical and systemic examination of patients with common medical and surgical problems.	K2
	Skills	2.1	Safely perform general physical and systemic examination on patients with common medical conditions involving Gastro-intestinal system, respiratory system, cardiovascular system, & nervous system.	S4



		2.2	Safely perform general physical and systemic examination on patients with common surgical conditions involving breast, acute abdomen, trauma, thyroid gland and vascular system.	S4
	Values	3.1	Demonstrate ethical and professional attitudes while dealing with patients and fellow colleagues.	V7
		3.2	Demonstrate written and oral communication skills while communicating with patients and fellow colleagues.	V8

Course	SAQF Domain	CLO code	Course learning outcomes (CLOs)	Aligned PLO code
Year - 4				
Ear, Nose and Throat Diseases ENT 421	Knowledge & Understanding	1.1	Describe anatomy and physiology of the Ear, Nose, Throat, Head and Neck.	K1
		1.2	Recognize the various types of diseases affecting Ear, Nose, Throat, Head and Neck and their pathogenesis with concentration on the common conditions.	K2
		1.3	Describe the principles in the management of types of diseases affecting Ear, Nose, Throat, Head and Neck with emphasis on common conditions with a community-oriented approach.	K3
	Skills	2.1	Critical evaluation and integration of medical knowledge from relevant sources for evidence-based decision-making regarding Ear, Nose, Throat, Head and Neck problems and community	S1
		2.2	Interpret medical data obtained through Ear, Nose, Throat, Head and Neck patient encounter for postulating provisional diagnosis.	S2
		2.3	Safely perform complete Ear, Nose, Throat, Head and Neck.	S4
		2.4	Safely employ appropriate basic medical diagnostic and interventional procedures in Ear, Nose, Throat, Head and Neck	S5
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning	V1



		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate	V2
		3.3	Demonstrate the ability to utilize information and communication technology for learning and evidence-based practice of Ear, Nose, Throat, Head and Neck	V4
		3.4	Demonstrate ethical and professional attitude in personal and professional relationships in health care settings.	V7
		3.5	Demonstrate communication skills with colleagues, patients, and other stakeholders of health care settings	V8
Medical Imaging IMG 421	Knowledge & Understanding	1.1	Recognize human body structures on Plain Radiographs, Contrast Studies, Computed Tomography and Magnetic Resonance Imaging.	K1
	Skills	2.1	Interpret the characteristic findings in a given radiological imaging modality such as Plain Radiograph, Contrast Study, Ultrasound examination, CT scan, MRI or Isotope study and correlate it with the patient's clinical condition to reach appropriate diagnosis.	S2
		2.2	Employ appropriate radiological imaging modalities for the common clinical conditions to reach the correct diagnosis.	S5
	Values	3.1	Demonstrate written and oral communication skills with colleagues, patients and others involved in health care settings.	V8
Dermatology DERM 411	Knowledge & Understanding	1.1	Describe the normal structure & functions of human skin and outline the basics of dermatologic terminology.	K1
		1.2	Recognize the common skin diseases & various cutaneous manifestations of systemic diseases and describe their pathogenesis, clinical manifestations.	K2
		1.3	Describe the principles in management of common skin diseases and various cutaneous manifestations of systemic diseases.	K3
	Skills	2.1	Demonstrate basic skills to take a tactful, accurate, organized and problem-focused dermatological history to reach appropriate provisional and differential diagnosis.	S2
		2.2	Interpret and analyse the results of investigations including histopathology and laboratory findings and integrate them with the history and physical examination to reach an appropriate diagnosis.	S2



		2.3	Develop individual and if required community level management plans for common dermatological conditions.	S3	
		2.4	Safely Perform reliable and appropriate dermatological examination and relevant general physical examination.	S4	
	Values	3.1	Demonstrate written and oral communication skills with colleagues, patients and others involved in health care settings.	V8	
Ophthalmology OPHT 421	Knowledge & Understanding	1.1	Describe the anatomy of the eye, ocular adnexa, and function of different parts of the eye, recognize common microorganisms affecting the eye and ocular therapy, and describe the optics of the eye and refractive errors.	K1	
		1.2	Recognize the various types of diseases of the eye and its adnexa and describe their pathogenesis & clinical manifestations with emphasis on common conditions.	K2	
		1.3	Describe the principles in the management of various eye diseases and refractive errors with emphasis on common conditions with a community-oriented approach.	K3	
	Skills	2.1	Analyze and integrate ophthalmological knowledge with medical data to develop decision-making and management plans regarding eye problems of the individuals & the community.	S1	
		2.2	Safely perform a complete ophthalmic examination.	S4	
		2.3	Safely employ appropriate basic ophthalmological diagnostic and interventional procedures in relevant situations.	S5	
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-directed and life-long learning.	V1	
		3.2	Demonstrate the ability to work effectively in a team and exercise leadership when recommended	V2	
		3.3	Employ Information & communication technology for learning the evidence-based practice of ophthalmology.	V4	
		3.4	Demonstrate ethical and professional attitude in personal & professional relationships in healthcare settings.	V7	
		3.5	Demonstrate written and oral communication skills with colleagues and patients.	V8	
	General Surgery	Knowledge &	1.1	Recognize patterns of common surgical disease in various age groups and	K2



SURG 421	Understanding		outline urgent, emergency and critical surgical conditions	
		1.2	Recognize the principles of management of the various surgical diseases with emphasis to common condition with community-oriented approach.	K3
	Skills	2.1	Critically evaluate the information acquired through patient history, physical examination and diagnostic investigations to reach a diagnosis or suggest a differential diagnosis of the problem presented.	S1
		2.2	Construct, analyse and record comprehensive patient history with appropriate sequencing for postulating provisional diagnosis.	S2
		2.3	Show ability and enthusiasm to promote health through health education and support provision of primary health programs.	S3
		2.4	Safely-perform physical examination to identify surgical disease signs.	S4
		2.5	Plan appropriate laboratory investigations relevant to the problem of the patient, considering the limitations of the patient, hospital and the health system along with clear guidance to the patient on how and where to get these investigations performed.	S5
	Values	3.1	Demonstrate the ability to comply with the hospital system regarding dress code, punctuality, peer and team work	V2
		3.2	Demonstrate ethical and responsible behaviour in personal and professional relationship with peer, technical and administrative staff in health care settings.	V7
		3.3	Write an informative referral letter asking opinion or help on a particular patient problem	V8
3.4		Demonstrate optimum communication skills with patient and patient family along with effective counselling to help them take the right decisions on the management of their problems and secure their consent taking into account their local culture, economic abilities and social conditions.	V8	
Internal Medicine I MED 411 & Internal Medicine	Knowledge & Understanding	1.1	To enlist the etiologies of various types of diseases and to describe their clinical manifestations	K2
		1.2	To diagnose different medical conditions with emphasis on the more common and prevalent disease of the region.	K3
		1.3	To describe the principles of management of various human diseases with	K3

II MED 412			emphasis on common condition with community-oriented approach		
		1.4	To evaluate the complications of different medical conditions and their treatment, in the light of updated guidelines and research.	K4	
	Skills	2.1	To analyze the data obtained by patient encounter through history taking.	S2	
		2.2	To perform appropriate clinical examination and correlate the findings.	S4	
		2.3	To postulate the differentials and probable diagnosis on the basis of appropriate patients' encounter.	S2	
		2.4	To enlist appropriate investigations based on the data obtained through medical encounter.	S5	
		2.5	To plan an appropriate management plan for health problems of the patients.	S3	
		Values	3.1	To demonstrate the ability of independent and life-long learning.	V1
	3.2		To show the ability of working effectively as a team.	V2	
	3.3		To demonstrate Proper use of advanced information resources such as journals, CD's and websites for an updated knowledge and consequently better teaching process and patients' care.	V4	
	3.4		To practice excellent communication skills to interact effectively, ethically with a professional attitude with the peer, patients, health team and appreciate the role of others in providing the medical services for better organization of work and a clear transfer of knowledge.	V7	
	Orthopaedic Surgery ORTH 421	Knowledge & Understanding	1.1	Recognize the common orthopedic diseases, common traumas and describe their etiology and pathogenesis along with clinical manifestations.	K1
			1.2	Describe the principles of management of common orthopedic diseases & trauma, with emphasis on management of complications arising from such diseases and trauma.	K3
		Skills	2.1	Critically correlate patient history, physical examination and different diagnostic modalities in a scientific methodological manner for postulating provisional diagnosis.	S1
2.2			Develop skills in performing common Orthopedic procedures.	S5	
Values		3.1	Recognize the importance of team work and the role played by other health care members.	V2	



		3.2	Shows respect and communicates freely with patients, their relatives, and colleagues, seniors and other members of the health team providers.	V7
Year - 5				
Family Medicine FCM 431	Knowledge & Understanding	1.1	Recognize the disease pattern in different age groups and sexes	K2
		1.2	Define the principles of Family Medicine in the context of provision of health care to improve health status of individuals, families and communities.	K3
		1.3	Describe basic principles of consultation, counselling and referral.	K5
	Skills	2.1	Examine the role of physician in health promotion and prevention at individual level and community level.	S1
		2.2	Employ the principles of problem solving and produce an appropriate decision-making.	S3
	Values	3.1	Analyze and interpret statistical data and information of PHC to manage health related problems of individual and community.	V5
	3.2	Demonstrates good rapport, apply effective oral and written communication skills to communicate with patients and stakeholders in PHC.	V8	
Psychiatry PSYC 441	Knowledge & Understanding	1.1	Recognize the various psychiatric disorders and describe their psychopathology, diagnosis and clinical outcomes.	K2
		1.2	Describe the different principles of management of the various psychiatric disorders with emphasis on common conditions with a community-oriented approach	K3
		1.3	Describe the classification of mental illness according to the WHO's international classification of disease	K5
	Skills	2.1	Interpret the interaction between psyche and soma in producing other medical complaints and diseases.	S1
		2.2	Interpret medical data obtained through patient and family for postulating provisional diagnosis.	S2
		2.3	Develop management plan for each psychiatric disorder on the individual, family and community level	S3
		2.4	Safely perform physical examination and mental state examination to	S4



	Values		identify the clinical manifestations of the psychiatric illness.		
		3.1	Use advanced information resources in the psychiatric hospital for better management of the psychiatric patients.	V6	
		3.2	Demonstrate the ethical and professional attitude in personal and professional relationships with the psychiatric patients, health workers and physician in health care settings.	V7	
		3.3	Demonstrate written and oral communication skills with colleagues, psychiatric patients, health workers and physician in health care settings.	V8	
Emergency Medicine EMP 441	Knowledge & Understanding	1.1	Recognize clinical manifestations of common medical emergencies.	K2	
		1.2	Describe the scientific approach for the management of medical emergencies.	K3	
	Skills	2.1	Critically interpret medical knowledge from relevant sources to diagnose medical emergencies	S1	
		2.2	Develop management plans for common medical emergency situations.	S3	
		2.3	Safely perform physical examination to identify emergency signs.	S4	
		2.4	Safely employ basic medical diagnostic and interventional procedures in emergency situations such as Dealing with multiple trauma patients, Airway management procedures, Defibrillation, Adult Basic and advanced cardiac life support and Paediatric life support.	S5	
	Values	3.1	Demonstrate ability to work effectively in a medical emergency team exercising leadership when appropriate.	V2	
		3.2	Apply information technology for learning and evidence-based practice of emergency situations.	V4	
		3.3	Demonstrate ethical and professional attitude in dealing with medical emergency situations.	V7	
		3.4	Demonstrate written and oral communication skills.	V8	
	Paediatrics PED 431	Knowledge & Understanding	1.1	Describe normal growth and development and recognize the nutritional requirements of a child throughout different age groups	K1
			1.2	Describe etiology, pathogenesis, clinical manifestations and differential diagnoses of the most important neonatal, pediatric and adolescent health problems	K2
1.3			Recognize the outlines of management of the most important neonatal and	K3	



			pediatric diseases and describe immunizations according to the current National Saudi Schedule of Immunization.	
	Skills	2.1	Critically-assess, evaluate and integrate knowledge in pediatrics obtained from history, clinical examination for evidence-based decision-making regarding health of children	S1
		2.2	Interpret data obtained by history and/or clinical examination of a child for listing a differential diagnosis and a provisional diagnosis.	S2
		2.3	Develop management plans for health problems of children.	S3
		2.4	Perform clinical physical examination in a professional manner to identify physical signs of diseases of children	S4
	Values	3.1	Choose his own learning needs and demonstrate responsibility for self-directed learning in pediatrics	V1
		3.2	Show the ability to utilize information and communication technology for learning and evidence-based practice of pediatrics.	V4
		3.3	Demonstrate ethical and professional attitude in personal and professional relationship in the hospital.	V7
		3.4	Demonstrate communication skills with patients and families that convey respect, integrity, flexibility, sensitivity, and compassion	V8
	Gynaecology & Obstetrics GYN 441	Knowledge & Understanding	1.1	Recognize high-risk pregnancies, labour, gynaecological disease and their magnitude, and different aetiologies with emphasis on preventable and avoidable causes.
1.2			Describe the principle of the management high-risk pregnancies, labour and gynaecological diseases.	K3
Skills		2.1	Interpret the gestational age of a pregnant woman through history taking, focused clinical examination, lab for the provisional diagnosis of high-risk pregnancies, labour, gynaecological disease.	S2
		2.2	Develop management plan for of high-risk pregnancies, labour, gynaecological diseases.	S3
		2.3	Perform physical examination to Identify and assess risk in pregnant patients for medical or obstetric complications/conditions such as diabetes, heart disease, anaemia, bleeding, hypertension and renal and	S4

			genital infections.	
		2.4	Perform routine obstetric and gynaecologic examination	S4
	Values	3.1	Demonstrate responsibility for own learning and is able to identify and use means of finding new information or techniques of analysis needed for completion of tasks.	V1
		3.2	Demonstrate ability to facilitate constructive resolution of issues in group or team situations, whether in a leadership role or as a member of a group.	V2
	3.3	Proper use of advanced communication and information resources such as journals, CD's and Internet for an updated knowledge and consequently better teaching process and patients' care.	V4	
Forensic Medicine CMD 431	Knowledge & Understanding	1.1	Recognise the different types and medico-legal aspects of injuries (mechanical, physical, chemical, and firearms).	K2
		1.2	Describe the principles of toxicology in dealing with different types of common poisons and drugs which affect human (in regards with mechanism of action, clinical features of toxicity, circumstances and diagnosis)	K2
		1.3	Recognise the basic principles of general toxicology used in clinical management of common poisons & drugs which affect human	K3
		1.4	Describe medicolegal aspects of head injuries, death and post-mortem changes, asphyxia and crimes against women and infants	K5
		1.5	Describe different methods of identification of living and dead.	K5
	Skills	2.1	Compare & correlate features of a case study of wounds	S1
		2.2	Differentiate the causes of unnatural and natural death	S1
		2.3	Categorize the features of different parts of a firearm cartridge for proper diagnosis of firearm weapon used in injury.	S1
		2.4	Interpret features of bone x- ray for identification.	S2
		2.5	Plan appropriate management strategies (diagnostic and therapeutic) for a case of acute poisoning to solve the problem.	S3
		2.6	Recognize the features of different post mortem changes	S4
	Values	3.1	Demonstrate ability to work in rural and civil areas with full understanding of the health problems in each region	V2
		3.2	Use computer programs and web sites to write a research essay about	V5

			different medicolegal aspects, worldwide problems or a subject in clinical toxicology.	
		3.3	Collect & use the results of history and examination of patients with injuries in trauma units of different hospitals to write standard medicolegal report about injury	V6
		3.4	Assemble the results of history, clinical examination and laboratory test findings of patients with poisoning in admission units of different hospitals to be able to write standard medical report about a case of poisoning	V6
		3.5	Write medicolegal report after examining bone specimens, photographs, x-rays and firearm specimens & Write death certificate.	V8
Medical Ethics in Islam CMD 441	Knowledge & Understanding	1.1	Define the principles of international bioethics in context with, provision of health care to improve the concepts of rights of patients, their families, and healthcare practitioners based on law and religion.	K3
		1.2	Describe basic principles of Islamic concepts of ethics, and how to deal in different ethical dilemmas.	K3
	Skills	2.1	Explain the basic Principles of medical ethics, Appreciate the role of ethical committee in health promotion, respect people rights and preventing conflict of interest.	S1
		2.2	Recognize the common ethical dilemmas and how it can be resolved among Islamic and international schools.	S1
		2.3	Employ the principles of problem solving and produce an appropriate decision-making	S1
	Values	3.1	Analyse and interpret the components of ethical situations based on moral and law to manage ethical problems of individual and community.	V4
		3.2	Demonstrate good rapport and apply optimum ethical and professional attitude in personal & professional relationships within health care settings	V7
		3.3	Demonstrate the ability to use oral and written skills to communicate with patients, colleagues, community members and other stake holders while resolving ethical issues.	V8

Year - 6

Field Experience	Knowledge & Understanding	1.1	Recognize the various types of human diseases, their epidemiology, clinical manifestations and impact on the community	K2
		1.2	Describe the principles of management of the various human diseases with emphasis on common and emergency conditions with community-oriented approach.	K3
	Skills	2.1	Critically-evaluate and integrate medical knowledge from relevant sources for evidence-based decision-making regarding health of individuals and community.	S1
		2.2	Interpret medical data obtained through patient encounter for postulating provisional diagnosis.	S2
		2.3	Safely perform physical examination of patients to identify disease signs	S4
		2.4	Safely employ appropriate basic medical diagnostic and interventional procedures in relevant situations	S5
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning	V1
		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate	V2
		3.3	Demonstrate the ability to utilize information and communication technology for learning and evidence-based practice of medicine.	V4
		3.4	Demonstrate written and oral communication skills with colleagues, patients and other stakeholders of health care settings	V8