



Program Learning Outcomes

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



3.2.3	V6	Use health management information system of the hospital in compliance with regulations, confidentiality, data security and integrity
Attributes		
3.3.1	V7	Demonstrate ethical and professional attitude in personal and professional relationships in health care settings.
3.3.2	V8	Demonstrate written and oral communication skills with colleagues, patients and other stakeholders of health care settings



Course Learning Outcomes 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.	1.0.3
		1.2	Describe the principles and processes of Problem-Based Learning (PBL).	1.0.3
	Skills	2.1	Interpret the acquired knowledge for deeper understanding of the given problem.	2.0.2
	Values	3.1	Analyse a given patient problem scenario to identify your own learning needs.	3.1.1
		3.2	Demonstrate responsibility for your own learning.	3.1.3
		3.3	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.	3.1.2
		3.4	Effectively use available learning resources to search for, collect, organize and integrate needed information.	3.2.1
		3.5	Demonstrate satisfactory written and oral communication skills in presenting information to peers and tutors.	3.3.2
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.	1.0.1
		1.2	Describe the structure and role of autonomic nervous system in homeostasis.	1.0.1
		1.3	Describe the potential effects of physical, biological and chemical environmental hazards on body's protective barriers and their role in	1.0.2



			disease occurrence.	
		1.4	Recognize major metabolic pathways, their regulatory mechanisms and the effects of their disturbances on disease occurrence.	1.0.2
	Skills	2.1	Critically interpret & integrate medical knowledge gained through problem solving during PBL sessions.	2.0.1
	Values	3.1	Demonstrate responsibility for self-directed learning.	3.1.1
		3.2	Demonstrate the capability to work effectively in a team and exercise leadership whenever appropriate.	3.1.2
		3.3	Use effectively college's E-learning resources for learning.	3.2.1
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.	1.0.2
		1.2	Describe the pathogenesis of various types of human diseases and correlate the pathologic processes with signs and symptoms.	1.0.2
		1.3	Describe the basic concepts of pharmacology particularly related to antibiotics, anti-inflammatory and anticancer drugs.	1.0.3
	Skills	2.1	Interpret the basic concepts of knowledge in biochemistry and microbiology in understanding basis of disease.	2.0.2
	Values	3.1	Demonstrate the ability to work effectively in a team and practice leadership in PBL sessions and seminar presentations.	3.1.2
		3.2	Demonstrate the ability to use information technology in learning through PBL sessions, TBL sessions and seminar presentations.	3.2.1
		3.3	Demonstrate effective written and oral communication skills in learning through PBL sessions, TBL sessions and seminar presentations.	3.3.2
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.	1.0.1
		1.2	Recognize the specific health care and the psycho-social needs in different stages of life.	1.0.1

	Skills	2.1	Critically evaluate and integrate medical knowledge related to different stages of life for evidence-based decision making in various clinical scenarios.	2.0.1
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning.	3.1.1
		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate.	3.1.2
		3.3	Demonstrate the ability to use information and communication and technology for learning of medicine.	3.2.1
		3.4	Demonstrate written and oral communication skills with colleagues and staff.	3.3.2
Musculoskeletal and Integumentary Systems CMD 222	Knowledge & Understanding	1.1	Describe the normal structure and function of the musculoskeletal system and skin.	1.0.1
		1.2	Describe the pathology behind various diseases that involve the musculoskeletal system and skin.	1.0.2
		1.3	Describe the principles of management of the diseases that involve the musculoskeletal system and skin.	1.0.3
	Skills	2.1	Explain and evaluate medical knowledge from relevant sources, to make evidence-based decision in clinical situations.	2.0.1
	Values	3.1	Illustrate their own learning needs	3.1.1
		3.2	Demonstrate responsibility in teamwork	3.1.2
		3.3	Demonstrate skills of communication, and of information technology use.	3.2.1
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.	1.0.3
	Skills	2.1	Safely perform physical examination of breast appropriately on manikins.	2.0.4
		2.2	Safely perform physical examination of pregnancy on manikins appropriately.	2.0.4
		2.3	Safely perform physical examination of locomotor system on simulated	2.0.4

			patients appropriately	
		2.4	Safely perform physical examination of common basic skills (like BP, Pulse, temperature, and injections) on simulated patients and manikins correctly.	2.0.4
		2.5	Identify signs of common diseases on photographs	2.0.5
	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.	3.2.1
		3.2	Demonstrate ethical and professional attitude in dealing with simulated patients and peers.	3.3.1
		3.3	Demonstrate the ability to communicate with simulated patients & peers.	3.3.2
Health and Illness in the community I HIC 211	Knowledge & Understanding	1.1	Describe natural history of disease, application of levels of prevention at appropriate stage of disease	1.0.2
		1.2	Describe basic epidemiological and demographic vital statistics indicators in health-related field (Neonatal, infant, child and maternal mortality rates; Crude birth and death rates; General fertility rate; Age-specific fertility rates and total fertility rate)	1.0.4
		1.3	Given a set of data: Identify the types of data variables and calculate mean, mode and median, standard deviation, co-efficient of variance, range	1.0.4
		1.4	Describe the health care programs at the Primary level care in line with 4 principles and 8 elements of primary health care	1.0.5
	Skills	2.1	Given a population pyramid: Interpret and explain its significance in the context of health transition and its implications on health of the population and requirements for health system for planning.	2.0.1
		2.2	Given a set of disease or health related events: Explain the dynamics of diseases through relevant epidemiologic theories of disease causation (epidemiologic triad, web/multifactorial of theory, Bradford Hill's criteria for causation)	2.0.1
	Values	3.1	Demonstrate sharing of responsibilities with the PHCC health personnel during field visits.	3.1.2
		3.2	Identify the sources of population data.	3.2.1
		3.3	Calculate and interpret the demographic and fertility indicators.	3.2.2

		3.4	Calculate and Interpret the Vital statistics (rates and ratios at country and community level): a. Crude birth and death rates b. Total fertility rate c. Cause-specific mortality rates d. Neonatal, infant, child and maternal mortality rates	3.2.2
		3.5	Given a topic: Illustrate health education messages on pamphlet format that should be evidence based, have up-to-date information in easy-to-understand Arabic language and have health promotion and disease prevention perspective.	3.3.2
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.	1.0.1
		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.	1.0.2
		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.	1.0.3
	Skills	2.1	Critically evaluate and integrate medical knowledge from relevant sources for evidence-based decision making in clinical scenarios.	2.0.1
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning.	3.1.1
		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate.	3.1.2
		3.3	Demonstrate the ability to use information and communication technology for learning.	3.2.1
		3.4	Demonstrate written and oral communication skills with colleagues and staff.	3.3.2



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.	1.0.1
		1.2	Recognize the various types of human diseases affecting the Hemopoietic and immune system and describe their pathogenesis and their clinical manifestations.	1.0.2
		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.	1.0.3
	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.	2.0.1
		2.2	Interpret medical data obtained through patient encounter and laboratory findings for postulating provisional diagnosis.	2.0.2
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning.	3.1.1
		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate.	3.1.2
		3.3	Demonstrate the ability to use information and communication technology for learning.	3.2.1
		3.4	Demonstrate written and oral communication skills with colleagues and staffs.	3.3.2
	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.	1.0.2
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.	1.0.3
Skills		2.1	Critically-evaluate and integrate medical knowledge from relevant sources for evidence-based decision making in a selected clinical scenario.	2.0.1
Values		3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning.	3.1.1



		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate.	3.1.2
		3.3	Demonstrate the ability to use information and communication technology for learning.	3.2.1
		3.4	Demonstrate written and oral communication skills with colleagues and staffs.	3.3.2
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.	1.0.1
		1.2	Recognize the various types of diseases affecting the Respiratory system and describe their pathogenesis and their clinical manifestations.	1.0.2
		1.3	Describe the management of respiratory system diseases	1.0.3
	Skills	2.1	Critically evaluate and integrate medical knowledge from relevant sources for evidence-based decisions making in clinical scenarios.	2.0.1
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning.	3.1.1
		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate.	3.1.2
		3.3	Demonstrate the ability to use information and communication technology for learning.	3.2.1
		3.4	Demonstrate written and oral communication skills with colleagues and staff.	3.3.2
Clinical skills II CMD 313	Knowledge & Understanding	1.1	Recognize the common methods of physical examination regarding endocrine system	1.0.3
		1.2	Recognize the common methods of physical examination regarding Heme & Lymphatic system	1.0.3
		1.3	Recognize the common methods of physical examination regarding Cardiovascular system.	1.0.3
		1.4	Recognize the common methods of physical examination regarding Respiratory system.	1.0.3
	Skills	2.1	Safely perform physical examination of endocrine, heme and lymphatic system, CVS, and respiratory systems appropriately on simulated patients.	2.0.4
		2.2	Perform basic medical procedures related to endocrine, heme and	2.0.4

			lymphatic system, CVS, and respiratory systems on manikins and simulated patients appropriately e.g. (ECG, IV cannulation, Tapping of pleural fluid)	
		2.3	Identify signs of common diseases on photographs	2.0.5
	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.	3.2.1
		3.2	Demonstrate ethical and professional attitude in dealing with simulated patients and peers.	3.3.1
		3.3	Demonstrate the ability to communicate with simulated patients & peers.	3.3.2
Health and Illness in the community II HIC 311	Knowledge & Understanding	1.1	Describe sections of a research proposal, Describe the steps in conducting research.	1.0.4
		1.2	Describe and apply the types of sampling methods, Define and understand the main differences between the common measures of frequency.	1.0.4
		1.3	Define EBM and describe its steps	1.0.4
		1.4	Define and describe systematic reviews and meta-analysis, State the strengths and limitations of study designs.	1.0.4
	Skills	2.1	Select and justify an appropriate study design for a given research question	2.0.1
		2.2	Explain and interpret probability distributions (Normal distribution and skewed distribution)	2.0.1
		2.3	Explain the concepts of Null hypothesis and alternate hypothesis and demonstrate the skills required for hypothesis testing	2.0.1
		2.4	Select an appropriate research problem, formulate the research question and set up the research objectives.	2.0.1
		2.5	Interpret the p-value and confidence intervals	2.0.1
		2.6	Understand the basic concept of critical appraisal	2.0.1
		2.7	Explain the biases and confounding that may be encountered in research, and how to minimize or control their effects	2.0.1
		2.8	Explain and apply the methods for data collection and the plans for dealing with non-responses in data collection, Evaluate the different methods of data collection stating advantages and disadvantages, Design and implement a suitable questionnaire for data collection.	2.0.1



		2.9	Explain the ethical issues in research	2.0.1
	Values	3.1	Calculate and Interpret measures of dispersion, and association (including relative risk and odds ratio; attributable risk, and population attributable risk; and interpret the 95% confidence limits for each of these measures of risk); Interpret tests of significance (Z-test; Student’s t-test, Chi-square test, comparison of means using ANOVA)	3.2.2
		3.2	Calculate sample size for a given study	3.2.2
		3.3	Make and interpret the various types of presentations (including frequency tables, cross-tabulation, frequency polygons, histograms, pie charts, bar charts, line graphs, etc.)	3.2.2
		3.4	write a research proposal and develop a research protocol including an activity chart	3.3.2
		3.5	Observe and share in providing health education to the patients attending P.H.C.C.	3.3.2
	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.	1.0.1
		1.2	Recognize various types of human disorders effecting gastrointestinal system and describe their pathogenesis and clinical manifestations.	1.0.2
		1.3	Describe the principles of management of various gastrointestinal diseases with emphasis on common conditions with community-oriented approach.	1.0.3
	Skills	2.1	Critically evaluate, integrate and interpret the medical knowledge from the relevant sources for evidence-based decision making in a clinical scenario.	2.0.1
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning.	3.1.1
		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate.	3.1.2
		3.3	Demonstrate the ability to use effectively information and communication technology for learning.	3.2.1
		3.4	Demonstrate the ability to use effectively written and oral communication skills with colleagues and staff.	3.3.2



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.	1.0.1
		1.2	Recognize the various types of human diseases affecting the urinary system and describe their pathogenesis and their clinical manifestations.	1.0.2
		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.	1.0.3
	Skills	2.1	Critically-evaluate and integrate medical knowledge from relevant sources for evidence-based decision making in a selected clinical scenario.	2.0.1
		2.2	Demonstrate laboratory skills in various disciplines.	2.0.5
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning.	3.1.1
		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate.	3.1.2
		3.3	Demonstrate the ability to use information and communication technology for learning.	3.2.1
		3.4	Demonstrate written and oral communication skills with colleagues and staffs.	3.3.2
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.	1.0.1
		1.2	Recognize the various types of human diseases affecting the nervous system, sensory organs and behavior describe their pathogenesis, and their clinical manifestations.	1.0.2
		1.3	Describe the principles of management of various human diseases affecting nervous system, sensory organs and behaviour with emphasis on common condition with community-oriented approach.	1.0.3
	Skills	2.1	Critically-evaluate and integrate medical knowledge from relevant sources for evidence-based decision making.	2.0.1
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning.	3.1.1
		3.2	Demonstrate the capability to work effectively in a team, and exercise	3.1.2



			leadership when appropriate.	
		3.3	Demonstrate the ability to use information and communication technology for learning.	3.2.1
		3.4	Demonstrate written and oral communication skills with colleagues and faculty.	3.3.2
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.	1.0.1
		1.2	Recognize common types of human diseases and describe their pathogenesis and their clinical manifestations.	1.0.2
		1.3	Describe the principles of management of common humane diseases with emphasis on common condition with community-oriented approach.	1.0.3
	Skills	2.1	Critically-evaluate and integrate medical knowledge from relevant sources for evidence-based decision making in a clinical scenario.	2.0.1
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning.	3.1.1
		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate.	3.1.2
		3.3	Demonstrate the ability to use information and communication technology for learning.	3.2.1
		3.4	Demonstrate written and oral communication skills with staffs and colleagues.	3.3.2
Clinical skills III CMD 333	Knowledge & Understanding	1.1	Recognize the common methods of physical examination regarding Gastro-intestinal tract.	1.0.3
		1.2	Recognize the common methods of physical examination regarding urinary system	1.0.3
		1.3	Recognize the common methods of physical examination regarding nervous systems	1.0.3
		1.4	Recognize the common basic skills like CPR, first aid measures, and suturing.	1.0.3
	Skills	2.1	Safely perform physical examination of Gastro-intestinal tract appropriately on simulated patients.	2.0.4
		2.2	Safely perform physical examination of Urinary system appropriately on	2.0.4

			simulated patients.	
		2.3	Safely perform physical examination of Nervous system appropriately on simulated patients.	2.0.4
		2.4	Employ common basic medical procedures and manoeuvre's like (catheterization, first aid measures, CPR, suturing) on manikins appropriately.	2.0.4
		2.5	Identify signs of common diseases on photographs	2.0.5
	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.	3.2.1
		3.2	Demonstrate ethical and professional attitude in dealing with simulated patients and peers.	3.3.1
		3.3	Demonstrate the ability to communicate with simulated patients & peers.	3.3.2
Health and Illness in the community III HIC 331	Knowledge & Understanding	1.1	Describe the various types of data presentation depending on the type of data	1.0.4
		1.2	Recognise the concept of correlation and regression, hypothesis testing and p-value.	1.0.4
		1.3	Describe the concept of Ch-square and t-test	1.0.4
		1.4	Understand and adhere to the regulations of health research ethics of KSA	1.0.5
	Skills	2.1	Use reasoning in decision making, and problem-solving skills in diseases of public health importance in KSA.	2.0.1
	Values	3.1	Demonstrate research skills and critically appraise research papers covering various designs and methodology and Perform the data entry and data analysis using S.P.S.S.	3.2.2
		3.2	Demonstrate good presentation skills in communicating research work	3.3.2
		3.3	Building, managing and working in teams and Effectively communicate verbally and in writing research finding.	3.3.2
		3.4	Demonstrate the concept of health promotion and disease prevention in the context of social, demographic, behavioural among specific groups of community (through school health awareness sessions). Consider a large spectrum of possible preventive and curative interventions in the management of health problem	3.3.2



Clinical skills IV MED 341	Knowledge & Understanding	1.1	Outline the steps of recording elaborate medical and surgical history.	1.0.2
		1.2	Recognise the methods of general physical and systemic examination of patients with common medical and surgical problems.	1.0.2
	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.	2.0.4
		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.	2.0.4
	Values	3.1	Demonstrate ethical and professional attitudes while dealing with patients and fellow colleagues.	3.3.1
		3.2	Demonstrate written and oral communication skills while communicating with patients and fellow colleagues.	3.3.2

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	Recognize basic diseases of ear, nose, throat and larynx with emphasis on conditions such as otitis externa, otitis media, hearing loss, basic audiology, rhinitis, sinusitis, nasal polyps, epistaxis, nasal trauma, common conditions of nasal septum, maxillofacial trauma, tonsillitis, pharyngitis, adenoids, deep neck space infection, laryngitis, benign vocal lesions, cancer larynx, stridor, neck assessment, common head and neck tumours and congenital anomalies of head and neck.	1.0.2
		2.1	Develop differential diagnosis for common diseases of ear, nose and throat with special emphasis on diseases such as external ear, otitis media, sensorineural hearing loss, different types of rhinitis, sinusitis, headache, pharyngitis, tonsillitis and laryngitis.	2.0.2
	Skills	2.2	Develop appropriate management plan for individual patient and	2.0.3



			community with common diseases of ear, nose and throat.	
		2.3	Safely perform ENT examination using instruments such as examination lamp, ear speculum, nasal speculum, otoscope, tuning forks, tongue blade and laryngeal or pharyngeal mirror.	2.0.4
		2.4	Safely perform bedside examination and testing of patient with dizziness including neurological examination.	2.0.4
		2.5	Plan appropriate investigations such as audiometry, x-ray, CT, MRI with or without contrast for patients with ENT problems.	2.0.5
		2.6	Critically decide the required common ENT outpatient procedures and common ENT surgical procedures such as ear wash, myringotomy, myringoplasty, mastoidectomy, nasal cautery, nasal packing, septoplasty, endoscopic sinus surgery, tonsillectomy adenoidectomy, tracheostomy, micro-laryngosurgery, partial and total laryngectomy.	2.0.5
		2.7	Safely employ first aid measures in ENT emergencies such as epistaxis, post tonsillectomy bleeding, pharyngeal abscess, foreign bodies and airway obstruction.	2.0.5
	Values	3.1	Demonstrate written and oral communication skills with colleagues, patients and others involved in health care settings.	3.3.2
Medical Imaging IMG 421	Knowledge & Understanding	1.1	Recognize human body structures on Plain Radiographs, Contrast Studies, Computed Tomography and Magnetic Resonance Imaging.	1.0.1
	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.	2.0.2
		2.2	Employ appropriate radiological imaging modalities for the common clinical conditions to reach the correct diagnosis.	2.0.5
	Values	3.1	Demonstrate written and oral communication skills with colleagues, patients and others involved in health care settings.	3.3.2
Dermatology DERM 411	Knowledge & Understanding	1.1	Describe the normal structure & functions of human skin and outline the basics of dermatologic terminology.	1.0.1
		1.2	Recognize the common skin diseases & various cutaneous manifestations of systemic diseases and describe their pathogenesis, clinical	1.0.2



			manifestations.	
		1.3	Describe the principles in management of common skin diseases and various cutaneous manifestations of systemic diseases.	1.0.3
	Skills	2.1	Demonstrate basic skills to take a tactful, accurate, organized and problem-focused dermatological history to reach appropriate provisional and differential diagnosis.	2.0.2
		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.	2.0.2
		2.3	Develop individual and if required community level management plans for common dermatological conditions.	2.0.3
		2.4	Safely Perform reliable and appropriate dermatological examination and relevant general physical examination.	2.0.4
	Values	3.1	Demonstrate written and oral communication skills with colleagues, patients and others involved in health care settings.	3.3.2
Ophthalmology OPHT 421	Knowledge & Understanding	1.1	Describe the anatomy of the eye and orbit, including the innervation and action of the extraocular muscles and outline the clinical effects of paralysis of each of the extraocular muscles & types of squint.	1.0.1
		1.2	Recognize the various types of eye diseases and describe their pathogenesis and the clinical manifestations with emphasis on common conditions.	1.0.2
		1.3	Describe the principles in management of the various eye diseases with emphasis on common condition with community-oriented approach.	1.0.3
	Skills	2.1	Critically evaluate and integrate acquired ophthalmological knowledge with available medical data and develop management plans with evidence-based decision-making regarding eye problems of the individuals and the community.	2.0.1
		2.2	Safely perform complete ophthalmological examination to identify disease signs.	2.0.4
		2.3	Safely employ appropriate basic ophthalmological diagnostic and interventional procedures in relevant situations.	2.0.5
	Values	3.1	Demonstrate the capability to work effectively in a team and exercise	3.1.2



			leadership when appropriate.	
		3.2	Employ Information & communication technology for learning evidence-based practice of ophthalmology.	3.2.1
		3.3	Demonstrate ethical and professional attitude in personal & professional relationships in health care settings.	3.3.1
		3.4	Demonstrate written and oral communication skills with colleagues and patients.	3.3.2
General Surgery SURG 421	Knowledge & Understanding	1.1	Recognize patterns of common surgical disease in various age groups and outline urgent, emergency and critical surgical conditions	1.0.2
		1.2	Recognize the principles of management of the various surgical diseases with emphasis to common condition with community-oriented approach.	1.0.3
	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.	2.0.1
		2.2	Construct, analyse and record comprehensive patient history with appropriate sequencing for postulating provisional diagnosis.	2.0.2
		2.3	Show ability and enthusiasm to promote health through health education and support provision of primary health programs.	2.0.3
		2.4	Safely-perform physical examination to identify surgical disease signs.	2.0.4
		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.	2.0.5
	Values	3.1	Demonstrate the ability to comply with the hospital system regarding dress code, punctuality, peer and team work	3.1.2
		3.2	Demonstrate ethical and responsible behaviour in personal and professional relationship with peer, technical and administrative staff in health care settings.	3.3.1
		3.3	Write an informative referral letter asking opinion or help on a particular patient problem	3.3.2
		3.4	Demonstrate optimum communication skills with patient and patient family along with effective counselling to help them take the right	3.3.2



			decisions on the management of their problems and secure their consent taking into account their local culture, economic abilities and social conditions.	
Internal Medicine I MED 411	Knowledge & Understanding	1.1	Recognize the causes of various types of diseases and describe their clinical manifestations.	1.0.2
		1.2	Describe the principles of management of various human diseases with emphasis on common condition with community-oriented approach	1.0.3
	Skills	2.1	interpret medical data obtained through patient encounter and master the required skills for appropriate history taking.	2.0.2
		2.2	Develop the needed skills for approaching common clinical problems including methods of investigations and the most appropriate provisional diagnosis and lines of treatments.	2.0.3
		2.3	Safely perform accurate physical examination of the patients (carry out the examination in the appropriate manner, sequence and comprehensiveness attending all systems relevant to the medical problem) to identify disease signs	2.0.4
		2.4	Safely employ appropriate basic medical diagnostic and interventional procedures in each relevant situation.	2.0.5
	Values	3.1	Demonstrate the ability of independent and life-long learning.	3.1.1
		3.2	Demonstrate the capability to work effectively in a team.	3.1.2
		3.3	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.	3.2.1
		3.4	Demonstrate 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.	3.3.2
Internal Medicine II MED 412	For time being - same as Internal medicine I (MED 411)			
Orthopaedic Surgery	Knowledge & Understanding	1.1	Recognize the common orthopaedic diseases, common traumas and describe their etiopathogenesis along with clinical manifestation's.	1.0.2



ORTH 421		1.2	Describe the principles of management of common orthopaedic diseases & trauma, with emphasis on management of complications arising from such diseases and trauma.	1.0.3
	Skills	2.1	Critically correlate patient history, physical examination and different diagnostic modalities in a scientific methodological manner.	2.0.1
		2.2	Construct, analyse and record precise patient history in relation to orthopaedics with special reference to different parts of the Musculo-skeletal system with appropriate sequencing and formulate an organized summary of history for postulating provisional diagnosis.	2.0.2
		2.3	Safely perform clinical examination of the musculo-skeletal system including physical examination of alignment, gait patterns and neurological examination.	2.0.4
		2.4	Interpret radiographs and different radiological techniques commonly used in Orthopaedics.	2.0.5
		2.5	Develop skills in performing common Orthopaedic procedures such as slings, splints, bandages casts, etc.	2.0.5
	Values	3.1	Recognize the importance of team work and the role played by other health care members.	3.1.2
		3.2	Shows respect and communicate freely with patients, their relatives, and colleagues, seniors and other members of the health team providers.	3.3.1
		3.3	Show an empathic and holistic approach to patients and their problems.	3.3.1
		3.4	Recognizes one's own limitations and be able to communicate and seek help when required.	3.3.2
		3.5	Present information clearly in written and oral forms.	3.3.2
Year - 5				
Family Medicine FCM 431	Knowledge & Understanding	1.1	Recognize the disease pattern in different age groups and sexes	1.0.2
		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.	1.0.3
		1.3	Describe basic principles of consultation, counselling and referral.	1.0.5
	Skills	2.1	Examine the role of physician in health promotion and prevention at	2.0.1



			individual level and community level.	
		2.2	Employ the principles of problem solving and produce an appropriate decision-making.	2.0.3
	Values	3.1	Analyze and interpret statistical data and information of PHC to manage health related problems of individual and community.	3.2.2
		3.2	Demonstrates good rapport, apply effective oral and written communication skills to communicate with patients and stakeholders in PHC.	3.3.2
Psychiatry PSYC 441	Knowledge & Understanding	1.1	Recognize the various psychiatric disorders and describe their psychopathology, diagnosis and clinical outcomes.	1.0.2
		1.2	Describe the different principles of management of the various psychiatric disorders with emphasis on common conditions with a community-oriented approach	1.0.3
		1.3	Describe the classification of mental illness according to the WHO's international classification of disease	1.0.5
	Skills	2.1	Interpret the interaction between psyche and soma in producing other medical complaints and diseases.	2.0.1
		2.2	Interpret medical data obtained through patient and family for postulating provisional diagnosis.	2.0.2
		2.3	Develop management plan for each psychiatric disorder on the individual, family and community level	2.0.3
		2.4	Safely perform physical examination and mental state examination to identify the clinical manifestations of the psychiatric illness.	2.0.4
	Values	3.1	Use advanced information resources in the psychiatric hospital for better management of the psychiatric patients.	3.2.3
		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.	3.3.1
		3.3	Demonstrate written and oral communication skills with colleagues, psychiatric patients, health workers and physician in health care settings.	3.3.2
Emergency Medicine	Knowledge & Understanding	1.1	Recognize clinical manifestations of common medical emergencies.	1.0.2
		1.2	Describe the scientific approach for the management of medical	1.0.3



EMP 441			emergencies.	
	Skills	2.1	Critically interpret medical knowledge from relevant sources to diagnose medical emergencies	2.0.1
		2.2	Develop management plans for common medical emergency situations.	2.0.3
		2.3	Safely perform physical examination to identify emergency signs.	2.0.4
		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.	2.0.5
	Values	3.1	Demonstrate ability to work effectively in a medical emergency team exercising leadership when appropriate.	3.1.2
		3.2	Apply information technology for learning and evidence-based practice of emergency situations.	3.2.1
		3.3	Demonstrate ethical and professional attitude in dealing with medical emergency situations.	3.3.1
		3.4	Demonstrate written and oral communication skills.	3.3.2
Paediatrics PED 431	Knowledge & Understanding	1.1	Identify normal growth and development and their assessment, approaches to their abnormalities from infancy through adolescence.	1.0.2
		1.2	Recognize the most important behavioural and social issues during childhood and adolescence.	1.0.2
		1.3	Determine the nutritional requirements and the most common nutritional disorders affecting infants and children.	1.0.2
		1.4	Describe the indications, contraindications, administration and precautions of the immunizations necessary for infants and children according to the national schedule.	1.0.2
		1.5	Describe common genetic diseases and their impact on children and families.	1.0.2
		1.6	Describe causes and pathogenesis, the clinical manifestations and differential diagnosis of the most important neonatal, paediatric and adolescent problems.	1.0.2
		1.7	Describe appropriate management for abnormalities affecting growth and development.	1.0.3



		1.8	Describe appropriate management for nutritional disorders.	1.0.3
		1.9	Recognize the outlines of management of the most important neonatal and paediatric diseases	1.0.3
		1.10	Outline the treatment plans for the most important neonatal, paediatric and adolescent problems according to protocols and guidelines.	1.0.3
	Skills	2.1	Critically-assess, evaluate and integrate knowledge in paediatrics for evidence-based decision-making regarding health of children	2.0.1
		2.2	Interpret data obtained by history and clinical examination of a child for listing a differential diagnosis and a provisional diagnosis.	2.0.2
		2.3	Develop management plans for health problems of a child and community.	2.0.3
		2.4	Perform clinical physical examination to identify physical signs of diseases of children	2.0.4
		2.5	Safely employ appropriate basic medical diagnostic and interventional procedures in relevant situations	2.0.5
	Values	3.1	Demonstrate the capability to work effectively in a team and independent, and exercise leadership when appropriate	3.1.2
		3.2	Use information and communication technology for learning and evidence-based practice of medicine.	3.2.1
		3.3	Demonstrate ethical and professional attitude in personal and professional relationship in the hospital.	3.3.1
		3.4	Demonstrate written and oral communication skills with colleagues, patients and families that convey respect, integrity, flexibility, sensitivity, and compassion.	3.3.2
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.	1.0.2
		1.2	Describe the principle of the management high-risk pregnancies, labour and gynaecological diseases.	1.0.3
	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.	2.0.2



		2.2	Develop management plan for of high-risk pregnancies, labour, gynaecological diseases.	2.0.3
		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 genital infections.	2.0.4
		2.4	Perform routine obstetric and gynaecologic examination	2.0.4
	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.	3.1.1
		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.	3.1.2
		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.	3.2.1
Forensic Medicine CMD 431	Knowledge & Understanding	1.1	Recognise the different types and medico-legal aspects of injuries (mechanical, physical, chemical, and firearms).	1.0.2
		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)	1.0.2
		1.3	Recognise the basic principles of general toxicology used in clinical management of common poisons & drugs which affect human	1.0.3
		1.4	Describe medicolegal aspects of head injuries, death and post-mortem changes, asphyxia and crimes against women and infants	1.0.5
		1.5	Describe different methods of identification of living and dead.	1.0.5
	Skills	2.1	Compare & correlate features of a case study of wounds	2.0.1
		2.2	Differentiate the causes of unnatural and natural death	2.0.1
		2.3	Categorize the features of different parts of a firearm cartridge for proper diagnosis of firearm weapon used in injury.	2.0.1
		2.4	Interpret features of bone x- ray for identification.	2.0.2
		2.5	Plan appropriate management strategies (diagnostic and therapeutic) for a	2.0.3

			case of acute poisoning to solve the problem.	
		2.6	Recognize the features of different post mortem changes	2.0.4
	Values	3.1	Demonstrate ability to work in rural and civil areas with full understanding of the health problems in each region	3.1.2
		3.2	Use computer programs and web sites to write a research essay about different medicolegal aspects, worldwide problems or a subject in clinical toxicology.	3.2.2
		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	3.2.3
		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	3.2.3
		3.5	Write medicolegal report after examining bone specimens, photographs, x-rays and firearm specimens & Write death certificate.	3.3.2
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.	1.0.3
		1.2	Describe basic principles of Islamic concepts of ethics, and how to deal in different ethical dilemmas.	1.0.3
	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.	2.0.1
		2.2	Recognize the common ethical dilemmas and how it can be resolved among Islamic and international schools.	2.0.1
		2.3	Employ the principles of problem solving and produce an appropriate decision-making	2.0.1
	Values	3.1	Analyse and interpret the components of ethical situations based on moral and law to manage ethical problems of individual and community.	3.2.1
		3.2	Demonstrate good rapport and apply optimum ethical and professional attitude in personal & professional relationships within health care settings	3.3.1
		3.3	Demonstrate the ability to use oral and written skills to communicate with	3.3.2



			patients, colleagues, community members and other stake holders while resolving ethical issues.	
Year - 6				
Field Experience	Knowledge & Understanding	1.1	Recognize the various types of human diseases, their epidemiology, clinical manifestations and impact on the community	1.0.2
		1.2	Describe the principles of management of the various human diseases with emphasis on common and emergency conditions with community-oriented approach.	1.0.3
	Skills	2.1	Critically-evaluate and integrate medical knowledge from relevant sources for evidence-based decision-making regarding health of individuals and community.	2.0.1
		2.2	Interpret medical data obtained through patient encounter for postulating provisional diagnosis.	2.0.2
		2.3	Safely perform physical examination of patients to identify disease signs	2.0.4
		2.4	Safely employ appropriate basic medical diagnostic and interventional procedures in relevant situations	2.0.5
	Values	3.1	Choose their own learning needs and demonstrate responsibility for self-directed learning	3.1.1
		3.2	Demonstrate the capability to work effectively in a team, and exercise leadership when appropriate	3.1.2
		3.3	Demonstrate the ability to utilize information and communication technology for learning and evidence-based practice of medicine.	3.2.1
		3.4	Demonstrate written and oral communication skills with colleagues, patients and other stakeholders of health care settings	3.3.2