Quality Assurance Unit

Tanta University
Faculty of Medicine

Bachelor of Medicine and Surgery

M.B. B.Ch

Program Specifications

Code: TMED

2011-2012

Program Specification

A- Administrative Information

1-Program title: Bachelor of Medicine and Surgery (M.B.B.Ch)

2-Program type: Single 1

-Departments: 29 departments according to the faculty's bylaws

Human Anatomy & Embryology, Medical Physiology, Histology & Cell Biology, Medical Biochemistry, Pathology, Clinical Pharmacology, Medical Parasitology , Microbiology & Immunology, Behavioral science, Forensic medicine & Clinical toxicology, Public health, preventive and social Medicine, Ophthalmology, Oto-Rhino-Laryngeology (E.N.T.), Pediatrics, General medicine & its subspecialties(Cardiology, Gastroenterology, Rheumatology, Neuropsychiatry, Chest, Clinical pathology, Dermatology) , Obstetrics & Gynecology , General surgery & its subspecialties(Cardio-surgery, Neurosurgery, Urosurgery, Orthopedics).

Program Coordinator : Prof.Esam Elhalaby

External evaluator: Prof. Sana Rady Director of Quality assurance unit Faculty of medicine Alexandria University

B- Professional Information

1- Program aims

The aim of the program is to develop competent graduates, community oriented, with high professional standards, who are well prepared to face , respond to and solve the current medical challenges. So it aims to:

1.1. Work to maintain normal health, provide primary health care and deal with common health problems in the society.
1.2. Acquire Basic scientific knowledge essential to practice medicine at the primary level of health, dealing with health problems commonly met- with- in clinical practice with proper awareness of the social and community contexts of health care.
1.3. Be aware of the importance of a good doctor/ patient relationship, and work to establish and maintain it.
1.4. Follow rules of medical ethics.
1.5. Acquire skills of diagnostic, problem solving and decision making necessary for proper evaluation and management of health problems.
1.6. Demonstrate appropriate communication, clinical and practical skills.
1.7. Show appropriate attitudes and professionalism.
1.8. Be prepared for lifelong learning.
1.9. Be able to engage in post- graduate and research studies.
1.10. Acquire basic administrative capabilities.

2- Intended learning outcomes (ILOs)

a- Knowledge& Understanding

By the end of the program, the graduate should be able to:

a1. Describe the normal structure and function of the human body and mind at the molecular, cellular and organ level and the total body values(2.1.01)

a2. Recognize the normal growth and development of the human body and mind throughout different life stages, including clinically relevant age and sex variations(2.1.01)

a3. Recognize the etiology of illness and disease, with special emphasis on environmental and traumatic causes(2.1.01)

a4. Describe clearly the altered development, growth, structure and function of the body and mind that occur as a result of disease.(2.1.02)

a5. Recognize the principles of genetics and the role of genetics in health and disease, as well as, the basics of gene therapy and genetic counseling.

a6. Discover applying basic medical science to disease process, supported by early clinical contact and demonstration.(2.1.02)

a7. Interpret the common disease's clinical manifestations and differential diagnosis with emphasis on early screening for malignancies (2.1.03)

a8. Identify the principles of early recognition and management of acute illnesses; including common medical and surgical emergencies.(2.1.03)&(2.1.04)

a9. Describe the principles of management of common and life threatening illnesses including medical, surgical intervention, pain relief and palliative care.(2.1.04).

a10. Know the natural history of common illnesses with understanding of the importance of risk factors, surveillance and screening for disease prevention.(2.1.05), (2.1.05d)

a11. Recognize the scientific basis of common diagnostic studies with emphasis on their prioritization in management plans.(2.1.03)

a12. Write the principles, indications, the relative advantages and disadvantage of various management strategies applied to common clinical situations(2.1.04)

a13. Define pharmacological principles of treatment including: drug effects/pharmacokientics, dosage, drug-drug interactions and adverse reactions.(2.1.04a)

a14. Describe the principles of non-pharmacological therapies, and their role in disease management.(2.1.04b)

a15. Memorize full information about the basic principles of health promotion and disease prevention including: healthy nutrition, exercise, life style modification, sanitation, preventive pharmacology and immunization, as well as methods to avoid environmental and workplace hazards.(2.1.05e)

a16. Recognize the nature of disability, its impact on the community and the principles of management including: rehabilitation, institutional and community care. .(2.1.05a)

a17. Identify the principles of clinical epidemiology and the role of scientific method in establishing the causation of disease. .(2.1.05c)

a18. Perceive the principles of infection control in hospitals and within community.(2.1.05a)(2.6.13)

a19. Know the principles governing ethical decision making in clinical practice and the major ethical dilemmas in medicine (2.1.06)

a20. Describe how to apply his/her medical knowledge in the service of law with emphasis on medico-legal aspects of medical practice. (2.1.06)

a21. Recognize English language as needed for appropriate learning and communication.

a22. Identify the Arabic medical terminology and its use in the needed medical information.

a23. List the principles of research methodology and critical evaluation of evidence.

a24. Know the basic principles of biostatistics.

a25. Identify the Egyptian national health care system including the different approaches to health care services and their role in improving medical practice.(2.1.05C), (2.1.05),

a26. Name the basics of normal and abnormal human behaviors. (2.1.01d)

a27. Population -based Basic computer knowledge needed to support literature retrieval and learning

b- Intellectual Skills

By the end of the program, the graduate will have acquired the skills to:

b1. Interpret the results of commonly used diagnostic procedures (laboratory and radiological).(2.2.04)

b2. Interpret appropriate essential steps and possible complications of common interventions. (2.2.05)

b3. Distinguish patients with life / organ threatening conditions and institute first aid and initial therapy. . (2.2.05)

b4. Analyze the principles of sterilization and infection control regulations based on hospital and community levels.

b5. Demonstrate insight for continued self assessment of their current medical practice aiming to update and improve it.(2.2.03)

b6. Integrate basic anatomical, biochemical and physiological facts with clinical data.(2.2.01)

b7. Interpret clinical problems :

A- Recognize, define and prioritize problems.

B- Interpret, analyze, and evaluate information objectively, recognizing its limitations. .(2.2.02)

C- Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation. .(2.2.02)

b8. Classify factors that place individuals at risk for disease or injury, to determine strategies for appropriate response.(2.2.07)_

b9. Retrieve and analyzes relevant and current data from literature, using information technologies and library resources, in order to help solve a clinical problem based on evidence (EBM).(2.2.08)

b10. Recognize and cope with uncertainty by proper counseling, consultation and referral.(2.2.09)

b11. Demonstrate insight into research and scientific methods through:(2.2.10)

A- Formulation of research questions that is pertinent to medicine.

B- Recognition of the importance of precision in collecting, analyzing and interpreting medical data.

C- Involvement in simple research.

c- Professional and practical skills

By the end of the program, the graduate will have acquired the skills to:

c1- Apply and document a complete or focused medical history in the outpatient, inpatient or emergency settings.(2.3.02)

c2- Perform and document a complete or focused physical and mental examination.(2.3.03)&(2.3.0.4).

c3- Construct patient's symptoms and physical signs in terms of anatomic, pathologic and functional

diagnostic significances. (2.3.03)

c4- Judge problems and select the most appropriate and cost effective diagnostic procedures for each problem. (2.3.05)

c5- Stimulate skills in clinical decisions that weighs the pros and cons of the proposed interventions. (2.3.05)

c6- Produce early diagnosis of malignancy.(2.3.05)

c7- Apply available facilities for early recognition and management of acute illnesses; including common medical and surgical emergencies. (2.3.05)

c8- Apply the principles and international guidelines of management of traumatic conditions with emphasis on the severely and poly-traumatized patient. (2.3.05)

c9- Record clear and concise medical records including: admission sheets, progress notes, and physician' orders, referrals for consultation, discharge summaries and follow up notes.

Procedures and technical skills acquired during house officer training:

c10- Perform venepuncture and collect blood samples

c11- Insert a cannula into peripheral veins.

c12- Give intramuscular, subcutaneous, intradermal and intravenous injections.

c13- Perform suturing of superficial wounds.

c14- -Demonstrate competency in cardiopulmonary resuscitation and basic life-support.

c15- Administer compulsory childhood vaccines.

c16- Perform and interpret basic bedside laboratory tests.

c17- Perform and interpret ECG.

c18- Administer basic oxygen therapy.

c19- Use a nebulizer for administration of inhalation therapy.

c20- -Insert a nasogastric tube.

c21- Perform bladder catheterization.

c22- Perform procedure of normal labor.

c23- Adopt suitable measures for infection-control.

d- General and transferable skills:

By the end of the program, the graduate should have acquired needed skills to:

d1- Conduct patient interviews that are characterized by patience and attentive listening.(2.4.01)

d2- Estimate and understand the differences in beliefs and backgrounds among patients..(2.4.02)

d3- Explain to patients and their families the clinical investigation's findings in relation to possible courses of therapy including indications, risks, benefits and alternatives as well as plans for follow up.(2.4.01)

d4- Achieve consensus and obtain informed consent from the patient or the patient's surrogate for the treatment plan.

d5- Know when and how to ask for senior consultation.(2.4.04)

d6- Give accurate and clear oral summaries of the patient's illness.(2.3.02)

d7- Work collaboratively with other health professionals in other disciplines to maximize patient benefits and minimize the risk of errors.(2.6.07)

d8- Critique his/her personal weaknesses through accurate self-assessment and/or supervisors and colleagues and actively set a clear learning plan to address these weaknesses.

d9- Consider the resources of biomedical information including the available electronic facilities to update his/her knowledge.(2.6.03)

d10- Deliver compassionate and non-judgmental care for all patients with respect for their privacy and dignity.(2.5.04)

d11- Adopt ethical behavior expected of doctors towards patients with recognition of patients' rights, particularly with regard to confidentiality and informed consent.(2.4.01) (2.4.02)

d12- Honesty and integrity in all interactions with patients, families, colleagues and others with whom the physician must interact in their professional life. .(2.4.01) (2.4.02)

d13- Retrieve potential conflicts of interest that may arise in caring of the patients and a commitment to advocate the interest of one's patients over one's own interests at all times (physician must be altruistic).(2.5.01)(2.4.07)

d14- Maintain a professional image in manner, dress, speech and interpersonal relationships that is consistent with the accepted contemporary medical profession standards.

d15- Provide care to patients who are unable to pay and advocate access to health care for members of the underserved populations. .(2.4.01) (2.4.02)

d16- Adopt the principles of lifelong learning.(2.6.01)

d17- Appreciate the role of other health care professionals, and the need to collaborate with others in caring of individual patients.(2.4.09)

d18- Treat the patient as a person, not as a disease and understand that patients are human beings with beliefs, values, goals and concerns which must be respected.(2.5.04)(2.5.05)

House Officers should be able to:

d19- Use Evidence Based Medicine in management decisions.

d20- Work efficiently within the health care team and as an effective team leader.

d21- Solve problems related to patients, work management, and among colleagues.

3- Academic standards:

The national academic reference standards (NARS) for medicine (May 2005).

4. Benchmarking

4-1- tomorrow Doctors

5- Curriculum structure and contents

Credit hours is not currently available for undergraduate medical education

5-1- Program duration: 6 academic years followed by one year clinical training as house officers.

5-2- Program structure:

a- Basic science stage (three years).

b- Clinical stage (three years).

c- Internship 1 year.

5-2 i- Number of hours per week:

Lectures: 74/w practical/clinical: 49+129=178/w Total: 252/w

5-2 ii- No. of hours: Compulsory: 4758 Elective: None Optional: None

5-2 iii- No. of hours of basic sciences courses: No. 2220 % 46. 65

5-2 iv- No. of hours of courses of social sciences and humanities: No. 60 % 1.26

5-2 v- No. of hours of specialized courses: No. None % None

5-2 vi- No. of hours of other courses:

- Clinical sciences No. 2538 % 53.34
- English language No. 30 % 0.63

5-2 vii- Practical/Field Training: Two weeks at the end of the 4th year clinical round (4 rounds each year)

5-2 viii-Programme Levels (in credit-hours system): Not applicable

6- Courses contributing to the programme

Year/Semester of program

1- First Year:

Code No.	Course title	No. of nits	No of hours / week		Total Hours	Program ILO covered
			Lectures	Lab.		
TMED.01-01	**Anatomy & Embryology**		**4/ W(120)**	**≥4/W(12**	**≥ 240**	**a1,2,4 ,6 b1,5,6,11 c2., c3, c9-d5, d9**
TMED 01-02	**Histology**	**1**	**2/w(60)**	**2/w(60)**	**≥120**	**a1,5,6 b5,6,11 c3.c5-d5 , d9**
TMED 01-03	**Human Physiology**	**1**	**5/w(150)**	**2/w(60)**	**≥210**	**a1,4, 6, 17 b1,5,6,11 c2,c 3,c 9,c16,c17,18-d5,d 9**
TMED 01-04	**Medical Biochemistry**	**1**	**3/w(75)**	**2(60)**	**≥ 135**	**a1, 6, 17 b5,6,11 c3,c4,c5,c16- d5,d9**
TMED 01-05	**English language**	**1**	**1/w(30)**	**-**	**30**	**a21**
TMED 01-6	**Computer Sciences**	**1**	**.5**	**.5**	**30**	**a.27**
TMED 01-07	**Human rights**	**1**	**1/w(30)**	**-**	**30**	**a 19 d1,2,4, 9, 11, 12,**

2- Second Year:

Code No.	Course title	No. of Units	No of hours / week (total hours)		Total Hours	Program ILO covered
			Lect.	Lab.		
TMED-02-01	Anatomy & Embryology	1	4 (120)	4(120)	≥ 240	a1,2,4 ,6 b1,5,6,11 **c2,c3,c9-**d5,9
TMED-02-02	Histology	1	2(60)	2(60)	≥120	a1,5,6 b5,6,11 **c3.c5-**d5, 9
TMED 02-03	Human Physiology	1	5(150)	2(60)	≥210	a1,4, 6 b1,5,6,11 **c2,c3,c9,c16,c17-**d 5,9
TMED 02-04	Medical Biochemistry	1	2(75)	2(60)	≥ 135	a1,6, 17 b 5,6,11 c3,c4,c5,c16-d5,9
TMED-02-05	Behavioural sciences & ethics	1	1(30)	-	30	a3, 4, 26 b5,6 d1, 2,8,18

3- Third Year:

Code No.	Course title	No. of Units	No of hours / week (total hours)		Total Hours	Program ILO covered
			Lect.	Lab.		
TMED 03-01	Pathology	1	4(120)	4(120)	240	a3,4,6 b5,6,11, c3,6 d 5,9,12
TMED 03-02	Pharmacology	1	4(120)	2(60)	180	a12, 13 b5,11, c 4,5,6 d5,9
TMED 03-03	Microbiology & Immunology	1	2(90)	2(60)	150	a3. 6, 17, 18 b4,5,11- **c4,c6,c23** d5,9
TMED 03-04	Medical parasitology	1	1(60)	1(60)	120	a3,4,12, b5,11.c3,c4 d 5,9

4- Fourth Year:

Code No.	Course title	No. of Units	No of hours / week(total hours)			Total Hours	Program ILO covered
			Lect.	Lab.	Clinical Rounds		
TMED 04-01	Ophthalmology	1	2 (80) 10h/w	-	8 weeks (120h) 15 h/w	8 weeks (200 hours) 25h/w	a3,4,6,7,8,10,11,13,14 b2,3, 6,7,9,10,11 c1-to-7 d1-to-7, d9-to-18

TMED 04-02	ENT	1	2(64) 16 h/w	-	4 weeks 15h/w (60)	4 weeks (124 hours 31 h/w	a3,4,6,7,8,10,11,13,14 b1, 2,5,7,9,10,11 c1-to-9 d1-to-7, d9-to-18
TMED 04-03	Forensic Medicine & Toxicology	1	2(80) 13h/ w	2(64) 11h/w	(6 h) 1 h/w	6 weeks (150 hours) 25h /w	a3,6,12,16,19,20,22 b5,7,11 c1,4,7 d4,5,7,10,11,12,13,17,18
TMED 04-04	Community Medicine	1	**6 weeks (128 hours) 21 h/w**	----	6 weeks (64 hours) **11h/w**	6 weeks (192 hours) 32h/w	a3,4,7,10,12,14,16,17,23-24-25 b4,7,8,11 c4,16 d 5,9,17 ,18

5-Fifth Year:

Code No.	Course title	No. of Units	No of hours / week(total hours)		Total Hours	Program ILO covered
			Lect.	ClinicalRounds		
TMED 05-01	Internal medicine	1	18(216)	24 weeks(3 hours/day) 18h/w (432)	684	a2,3,4,6,7,8,9,10,12,13,14,15 ,26 b1,2,3,4,5,6,7,9,10,11 c1-9, c16, 17,19 d1-18
TMED 05-02	Pediatrics	1	10(108)	12 weeks (2 hours /day) (144)	252	a2,3,4,5,6,7,9,11,12,13,14, b2,3,5,7,9.,11 c1-9,19 d1-5,8-14,16--18

6-Sixth Year

Code No.	Course title	No. of Units	No of hours / week		Total Hours	Program ILO covered
			Lectures	Clinical Rounds		
TMED 06-01	Surgery	1	19 (216 hours)	24weeks 3hours /d 18h/w (432)	684	a3,4,6,7,8, 9,10,13,14,15,16,17 b1,2,3,5,6,7,9,10,11 c1-9 , c14, c16,c20,c21 c23 d1-18
TMED 06-02	Obstetrics & Gynecology	1	6(108hours)	12 weeks (3hours /day) 216	324	a,3,4,5,6,7,8,9,10,12,13,14,17 b1-2,3,5,6,7,8,9,10,11 c1-9-22 d1-7,d9-18

7-House officer year

Duration	Departments	Program ILO covered
2months	Internal medicine	b1,3,4,9-11 c1-23 d1-18
2 months	General surgery	
2months	Pediatric	
2months	Obstetric and gynecology	
2months	special medicine	
2mnoths	special surgery	

Program - course ILO Matrix

A - Knowledge and understanding (a1 –a27)

Code	Departments	ILOs																										
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
TMED.01-01 TMED-02-01	Anatomy	*	*		*		*																					
TMED 01-02 TMED-02-02	Histology	*				*	*																					
TMED 01-04 TMED 02-04	Medical Biochemistry	*					*											*										
TMED 01-03 TMED 02-03	Physiology	*			*		*											*										
TMED 01-05	English																					*						
TMED 01-07	Human rights																			*								
TMED 01-06	Computer																											*
TEMD.02-05	Behavioral sciences			*	*																						*	
TMED.03-01	Pathology			*	*		*																					
TMED.03-04	Parasitology			*	*								*															
TMED.03-02	Clinical pharmacology												*	*														
TMED.03-03	Microbiology and medical immunity			*			*											*	*									
TMED.04-01	Ophthalmology			*	*		*	*	*		*	*		*	*													
TMED.04-02	Ear, nose and throat			*	*		*	*	*		*	*		*	*													
TMED.04-04	Community medicine			*	*			*			*		*		*		*	*						*	*	*		
TMED.04-03	Forensic medicine and clinical toxicology			*			*						*				*			*	*		*					
TMED.05-02	Pediatrics		*	*	*	*	*	*	*	*		*	*	*	*													
TMED.05-01	Internal medicine		*	*	*		*	*	*	*	*		*	*	*	*											*	
TMED.06-01	General surgery			*	*		*	*		*	*			*	*	*	*	*										
TMED.06-02	Gynecology and obstetrics.			*	*	*	*	*	*	*	*		*	*	*			*										

B- Intellectual skills (b1-b11)

Code	Departments	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
TMED.01-01 TMED-02-01	Anatomy	*				*	*					*
TMED 01-02 TMED-02-02	Histology					*	*					*
TMED 01-04 TMED 02-04	Medical Biochemistry					*	*					*
TMED 01-03 TMED 02-03	Physiology	*				*	*					*
TMED02-05	Behavioral sciences					*			*			
TMED.03-01	Pathology					*	*					*
TMED.03-04	Parasitology					*						*
TMED.03-02	Clinical pharmacology					*						*
TMED.03-03	Microbiology and medical immunity.				*	*						*
TMED.04-01	Ophthalmology		*	*			*	*		*	*	*
TMED.04-02	Ear, nose and throat.	*	*			*		*		*	*	*
TMED.04-04	Community medicine				*			*	*			*
TMED.04-03	Forensic medicine and clinical toxicology					*		*				*
TMED.05-02	Pediatrics		*	*		*		*		*		*
TMED.05-01	Internal medicine.	*	*	*	*	*	*	*		*	*	*
TMED.06-01	General surgery.	*	*	*		*	*	*		*	*	*
TMED.06-02	Gynecology and obstetrics.	*	*	*		*	*	*	*	*	*	*
	House officer year	*		*	*			*		*	*	*

C- Professional and practical skills(C1-C23)

Code	Departments	House officer Professional and practical skills(C11-C23)																						
		C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20	C21	C22	C23
TMED.01-01 TMED-02-01	Anatomy		*	*						*														
TMED 01-02 TMED-02-02	Histology			*		*																		
TMED 01-04 TMED 02-04	Medical Biochemistry			*	*	*											*							
TMED 01-03 TMED 02-03	Physiology		*	*						*							*	*						
TMED.03-01	Pathology			*			*																	
TMED.03-04	Parasitology			*	*																			
TMED.03-02	Clinical pharmacology				*	*	*																	
TMED.03-03	Microbiology and medical immunity				*		*																	*
TMED.04-01	Ophthalmology	*	*	*	*	*	*	*																
TMED.04-02	Ear, nose and throat	*	*	*	*	*	*	*	*	*														
TMED.04-04	Community medicine				*												*							
TMED.04-03	Forensic medicine and clinical toxicology	*			*			*																
TMED.05-02	Pediatrics	*	*	*	*	*	*	*	*	*										*				
TMED.05-01	Internal medicine	*	*	*	*	*	*	*	*	*							*	*		*				
TMED.06-01	General surgery	*	*	*	*	*	*	*	*	*					*		*				*	*		*
TMED.06-02	Gynecology and obstetrics	*	*	*	*	*	*	*	*	*												*	*	
	House officer year	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

a- General and transferable skills(d1-d18):

Code	Departments	House officer General and transferable skills (d18 -d20)																	
		d1	d2	d3	d4	d5	d6	d7	D8	d9	d10	d11	d12	d13	d14	d15	d16	d17	d18
TMED.01-01 TMED-02-01	Anatomy					*				*									
TMED 01-02 TMED-02-02	Histology					*				*									
TMED 01-04 TMED 02-04	Medical Biochemistry					*				*									
TMED 01-03 TMED 02-03	Physiology					*			*	*									
TMED 02-05	Behavioral sciences and ethics	*	*																*
TMED 01-07	Human rights	*	*		*					*		*	*						
TMED.03-01	Pathology					*				*			*						
TMED.03-04	Parasitology					*				*									
TMED.03-02	Clinical pharmacology					*				*									
TMED.03-03	Microbiology and medical immunity.					*				*									
TMED.04-01	Ophthalmology	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*
TMED.04-02	Ear, nose and throat	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*
TMED.04-04	Community medicine					*				*								*	*
TMED.04-03	Forensic medicine and clinical toxicology				*	*		*			*	*	*	*				*	*
TMED.05-02	Pediatrics	*	*	*	*	*			*	*	*	*	*	*	*		*	*	*
TMED.05-01	Internal medicine	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
TMED.06-01	General surgery	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
TMED.06-02	Gynecology and obstetrics	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*
	House officer year	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*

7- Program admission requirements

Registration to the faculty of Medicine requires the student to have the General Egyptian Secondary Education Certificate or equivalent certificates or degrees approved by the Egyptian ministry of higher education with qualifying grades according to the guidelines put annually by the Ministry of higher education.

8- Regulations for progression and program completion

First Year

- Duration: 30 weeks
- 2 sets of exams: 1st in May – 2nd in September for students who failed to pass any course.
- Mid year exams are set according to internal regulations put by the departments.
- Criteria to progress to the next year are passing exams in at least 2 courses.

Second Year

- Duration: 30 weeks
- 2 sets of exams: 1st in May – 2nd in September for students who failed to pass any course.
- Mid-year exams are set according to internal regulations put by the departments.
- Criteria to progress to the next year are passing exams in all medical courses.

Third Year

- Duration: 30 weeks
- 2 sets of exams: 1st in May – 2nd in September for students who failed to pass any course.
- Midyear exams are set according to internal regulations put by the departments.
- Criteria to progress to the next year are passing exams in all medical courses.

Fourth Year

- Duration: 32 weeks
- 2 sets of exams: 1st in June – 2nd in September for students who failed to pass any course.
- Midyear exams are set according to internal regulations put by the departments.
- Criteria to progress to the next year is passing exams in all medical courses studied.

Fifth Year

- Duration: 36 weeks
- 2 sets of exams: 1st in July – 2nd in September for students who failed to pass any course.
- Midyear exams are set according to internal regulations put by the departments.
- Criteria to progress to the next year are passing exams in all medical courses studied.

Sixth Year

- Duration: 36 weeks
- 2 sets of exams: 1st in November – 2nd in May/June for students who failed to pass any course.
- Midyear exams are set according to internal regulations put by the departments.
- Criteria to progress to the last exam of the program are passing exams all medical courses studied.

Methods for assessment:

Tool	Purpose (ILOs)
Written examination short and long essay MCQ problem solving	To assess knowledge & intellectual skills.
Oral examination Fiva cards	To assess knowledge , intellectual skills& general& transferable skills.

Practical examination station OSCE cases	To assess knowledge , intellectual skills, professional & general& transferable skills.

9- Evaluation of program intended learning outcomes

Evaluator	**Tool**	**Sample**
1.Senior student	Questionnaire	Attached annex
2.Alumni	Questionnaire	Available
3.Stakeholder (Employers)	Questionnaire	Available
External Evaluator(s) External Examiner(s)	Report	
5.Other	none	none

References

1. National Academic References Standards (NARS)
2. World Federation of Medical Education
3. Tomorrow's doctors
4. Liaison commission for Medical education
5. Quality Assurance Agency of UK
6. Website of medical General Council