



## Republic of Yemen

### 21 September University of Medicals & Applied Sciences



# Faculty of Medicine Bachelor of Medicine and Surgery (MBBS) Program Specification

#### Preparation Committee:

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3. Assoc. Prof. Salwa Al-Khomiri
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6. Prof. Noman Fairouz. (Standard Reviewer)

#### Program Coordinator:

1. Assoc. Prof. Salwa Al-Khomiri.
2. Assoc. Prof. Mohammed Al-Eriani.

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1. Program Identification and General Information:		
1	Scientific name of the program:	Medicine and Surgery (MBBS)
2	Total credit hours required to award the degree	242 without the internship
3	Number of years needed for completion of the program:	(5+1) Five Years & one-year internship
4	The body responsible for granting the degree:	21 September University
5	The body responsible for the program:	Faculty of Medicine
6	Award granted on completion of the program:	Bachelor of Medicine and Surgery (MBBS)
7	Study system:	Block System
8	Study Language of the Program:	English Language
9	Entry requirements:	Secondary School (Scientific Section) & Acceptance Exam
10	Departments participating in the program:	Many departments participated 22 departments ( <a href="#">Annex 6</a> )
11	Starting year of the program:	2016/2017
12	Study methods in the program:	Full time
13	Location of Delivery:	University campus
14	The program resources:	Student fees
15	Minimum grade requirements:	As per regulations of the Ministry of Higher Education and Scientific Research
16	Other admission requirements:	According to the university rules and regulations.
17	Date of current development of the program:	Dec. 2021
18	Prepared by :	1- Prof. Mujahed Measar 2- Assoc. Prof. Sadik Abdul-Moughni 3- Assoc. Prof. Salwa Al-Khomiri 4- Assoc. Prof. Mohammed Al-Eriani 5- Assoc. Prof. Walied Al-Thahibi 6- Prof. Noman Fairouz

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19	<b>Program coordinator:</b>	1. Assoc. Prof. Salwa Al-Khomiri 2. Assoc. Prof. Mohammed Al-Eriani
<b>2. Introduction:-</b>		
<p>This Program in The Faculty of Medicine at 21September University has adopted the Block system as a teaching system through which it will achieve its goal of graduating medical cadres with high academic qualifications and skills to serve the community and alleviate its suffering. It is offered for five academic years and one-year internship (5+1). The studying period are divided into two phases:</p> <ul style="list-style-type: none"><li>- The first phase incorporation of the basic and applied sciences (preclinical phase), which extends over a period of three years in which medical courses are taught in an interdisciplinary manner (organ system based) in order to enhance and comprehend the student's knowledge.</li><li>- The second stage is the clinical science stage, which lasts over two years, during which the student's clinical skills are built.</li></ul> <p><b>Promising Jobs:</b></p> <p>The graduated doctor will able to work in different filed as:-</p> <ul style="list-style-type: none"><li>1- Public and private hospitals</li><li>2- Private clinics</li><li>3- Academic fields</li><li>4- Health organizations</li></ul>		

<b>3. University Vision, Mission, Values, Objectives, and Goals:</b>
<b>3.1-University vision:</b> A contemporary University with National Responsibility and a Faith Identity.
<b>3.2-University mission:</b> Leading the transformation in the management and delivery of health care with all partners by setting a standard of excellence in education and medical and applied research in a way that meets the needs of Yemeni society, its specificity and regional influence.
<b>3.3-University Core values:</b> 1- Leadership and influence 2- Excellence & Creativity

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### 3- Teamwork

#### 3.5-Strategic goals:

1. Ensuring the application of quality standards and setting standards of excellence in medical and applied sciences, scientific research and community service.
2. The centrality of the student in the educational process, the partnership with them for life, the consolidation of the principles of national responsibility and faith identity, their care and the development of their capabilities after graduation and during work.
3. Attracting, employing and retaining scholars, cadres and highly specialized talents to gain minds and reverse the trend of "brain drain" in a way that promotes and ensures the creation of thinkers, businessmen and good citizens.
4. Continuous development of the distinguished academic infrastructure and the establishment of modern research and service centers with high efficiency and capable of making a real impact locally and regionally.
5. Enhancing the university's position as a preferred partner for local, regional and international partnership through implementing innovative models of education, exchanging research and knowledge, and providing real and effective outcomes for developing professional practices to benefit from them locally and regionally.

#### **4. Faculty Vision, Mission, Values, and Objectives:**

##### 4.1-Vision:

A distinguished Medical Faculty capable of competing locally and regionally.

##### 4.2-Mission:

The Faculty of Medicine be contemporary in providing a distinguished educational level based on creativity and innovation and a true partner in facing the main national health challenges and in treating patients with high quality based on research to solve problems that leads to integrated health care in an ethical context.

##### 4.3-Values:

1. Professional
2. Continuous Education.
3. Appreciation of Science and Scientists.
4. Transparency and Accountability.
5. Team Work.

##### 4.4-Faculty Objectives(Strategic):

1. Finding effective solutions for the university hospital, the infrastructure of the College and its annual budget.

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2. Bridging the gap in the human resources adequately and efficiently, and developing them on a professional basis.
3. Improving the quality of the human medicine program to be met with the quality standards, national and international academic accreditation.
4. Strengthening the governance and management systems, consolidating the decentralization, and practicing the transparency and accountability.
5. Building up the students' abilities to think, analyze and solve the problems according to the research methods that qualify them for the labor market and achieve their practical and professional aspirations in future.
6. Contributing in supporting the science-oriented research on the basis of planning related to the goals of comprehensive development in Yemen.
7. Forming real and effective partnership with the society, its institutions and the counterpart faculties at national, Arab and international level.

## 5. Medicine & Surgery Program Mission and Objectives:

### 5.1- Program Mission:

Providing the community with distinguished doctors with human values and who play an educational, training, research and health role that qualifies them for professional competence at the highest levels, and who are capable of continuous self-learning, providing quality health care and sustainable research follow-up that supports engagement and interaction with the local and global medical community.

### 5.2-Program Objectives- :

**This program aims to:**

1. Graduating competent doctors who possess the basic medical knowledge and skills to practice medicine with efficiency and serve the community.
2. Improve the practical and clinical skills with advanced scientific methods
3. Develop the students diagnostic and therapeutic skills in solving various health problems.
4. Develop students' critical thinking in clinical that influences the creativity and the ability to deal with versatile medical aspects.
5. Prepare graduates to become able Integrate into a team work with sincerity and integrity

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6. Prepare the students with abilities and skills that qualify them to join higher studies and training programs that allow them to specialize, improve performance and professional development.
7. Enhancing the principles of professional, ethical and national responsibility among students.
8. Providing students with self-learning skills and using information technology, medical evidence and scientific research to keep pace with the latest developments in the field.

## 6. Program Standards & Benchmarks:

### 6.1- Program Standards: -

#### A. Academic Standards:

- 1- National Accreditation Standards for Faculties of Medicine in Yemen (V.2022)
- 2- National Academic Reference Standards (NARS) for Undergraduate Medical Education Programs (V.2022). [Compliant with the BASIC MEDICAL EDUCATION WFME GLOBAL STANDARDS FOR QUALITY IMPROVEMENT The 2020 Revision]

#### B. Strategies :-

- 1- University Strategy .
- 2- Faculty Strategy .

#### C. Rules and Regulation :-

- 1- Higher Education rules
- 2- Student affairs regulation.

[Annex- 2, Academic Standards Curriculum Criteria of Accreditation Board](#)

[Annex- 3, Unified Regulations for Student Affairs, Ministry of Higher Education and Scientific Research](#)

### 6.2- Program Benchmarks:

- 1- King Faisal University  
[http:// www.kfu.edu.sa/](http://www.kfu.edu.sa/)
- 2- University of Science and Technology (YUST)-Yemen  
<https://ustye.net/>
- 3- Cairo University , Medicine Program-Egypt  
<https://cu.edu.eg/>
- 4- Tehran university-IRAN  
<https://en.tums.ac.ir/en>
- 5- Newcastel University

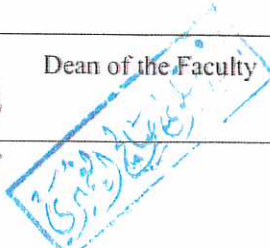
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<https://www.ncl.ac.uk>

6- Misr University for Science and Technology

<https://must.edu.eg/academics/college-of-medicine/>

## 7. Graduate Attributes:

### Upon successful completion of an undergraduate Medicine and Surgery (MBBS)

#### Program, graduates will be able to:

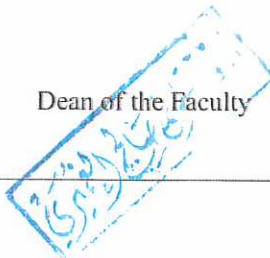
1. Healthcare provider: providing patient-centered high-quality care efficiently, effectively and safely within their defined scope and limits of their expertise and within the context of healthcare system.
2. Professional: Adhering to ethical, professional, and legal standards, demonstrating a commitment to the patients, profession and society, and to their wellbeing and lifelong personal and professional development.
3. Scholar: Using the medical knowledge and health research to meet the needs of patients, healthcare system, and society.
4. Health Advocate: contributing to prevent illness and promote the health and well-being of their patients, and society.
5. Communicator & Collaborator: Communicating effectively with patients and their families, healthcare team and the society, and collaborating inter professionally, working as both a team member and a leader.

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## 8. Program Intended Learning Outcomes (PILOs):

### A. KNOWLEDGE AND UNDERSTANDING

*Upon successful completion of an undergraduate Medicine and Surgery (MBBS) Program, the graduates will be able to:*

- A1. Describe the general and basic sciences related to human body structure and functions with emphasis on normal and abnormal conditions.
- A2. Identify the progress of human body through all stages of development, alteration of structure and function during these stages and indication for surgical or non-surgical intervention and the role of treatment in healing or curing the diseases.
- A3. Explain the pathological and pathogenesis changes in various diseases, and their etiological triggers including genetic, developmental, infectious, metabolic, endocrinal, autoimmune, neoplastic, traumatic, degenerative and occupational factors.
- A4. Recognize the local and international guidelines, ethics, disease management, prevention and other risk factors that affect community health.

### B. COGNITIVE/INTELLECTUAL SKILLS

*Upon successful completion of an undergraduate Medicine and Surgery (MBBS) Program, the graduates will be able to:*

- B1. Compare between normal and abnormal conditions and predict the appropriate treatment or intervention.
- B2. Analyze and interpret the finding from history, clinical examination and investigations to propose a diagnosis and develop a shared management plan for common acute, chronic and urgent physical and mental health presentations.
- B3. Explore to medical practice the principles, method and knowledge of population health and the improvement of health and healthcare

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## 8. Program Intended Learning Outcomes (PILOs):

### C. PRACTICAL AND PROFESSIONAL SKILLS:

*Upon successful completion of an undergraduate Medicine and Surgery (MBBS) Program, the graduates will be able to:*

- C1. Perform complete clinical examination and precise investigations to reach the final diagnosis
- C2. Prescribe appropriate drugs taking in mind the benefits, side effects, interactions, safety and availability.
- C3. Carry out routine medical procedure and demonstrate the ability of using common medical tools required for diagnosis and management with highly qualified competency.

### D. GENERAL / TRANSFERABLE SKILLS

*Upon successful completion of an undergraduate Medicine and Surgery (MBBS) Program, the graduates will be able to:*

- D1. Communicate with professionals, patients, their families and the community through verbal, written and other non-verbal means.
- D2. Work individually or in a team and develop lifelong learning using up to date technology that help in understanding the diseases and its control and prevention.
- D3. Respect the different cultural beliefs, ethics, personalities, privacy and values for patients and community with a good behavior and follow the institutional and national roles of medical practice

Annex- 5, Survey on Mission and Objectives of the Program and Similar Accredited Programs and its Alignment to the University, Faculty, and Program Missions and

Annex-7, Alignment of Program Intended Learning Outcomes (PILOS) to Program Objectives (POs)

Annex- 8, Mapping of Program Objectives to the Faculty Mission

Annex- 9, Survey of PILOs for Similar Accredited Programs at National and International universities

## 9. Teaching and Learning Strategies:

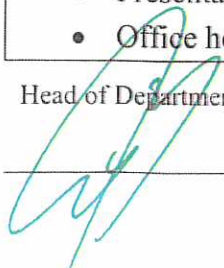
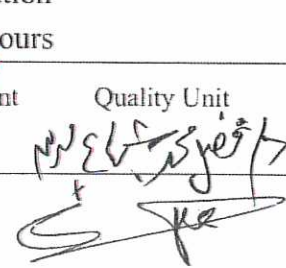
- Interactive lectures
- Seminars
- Practical session
- Training
- Discussion
- Self-learning
- Electronic learning
- Presentation
- Office hours

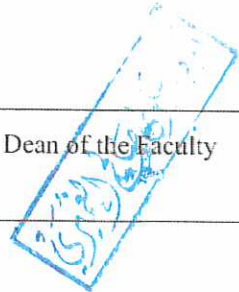
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- Case study (CBL)
- Problem Based Learning (PBL)

Teaching Strategy	Description
<b>Interactive lectures</b>	These are interactive lectures weekly conducted in the class and supported with variety of teaching formats including, lectures and multimedia presentations, use of whiteboard to solve examples and illustrating different tasks and problems introduced by the presentation, and class discussions, in which concepts, approaches, and case studies are presented, explored, and shown students what they need to know.
<b>Seminars</b>	Discussion of specific topic by group of students under the observation of the lecturer.
<b>Practical session</b>	In highly equipped labs the student will trained by practicing certain topic.
<b>Training</b>	This training preformed in the hospital by such teaching strategy the students improve their clinical skills.
<b>Discussion</b>	It is interactive measure by which the lecturer explores the level of understanding the subject among students
<b>Self-learning</b>	Improving the knowledge by the student oneself without assistants also used Electronic learning
<b>Office hours</b>	By which the lecturer discusses and answer for students' questions.
<b>Presentation</b>	An activity by which the student describes, explain something Infront of group of students.
<b>Case studies (CBL)</b>	Study the clinical cases in depth, training the details of history taking, examination, analysis the gathering data and obtaining diagnosis.
<b>Problem Based Learning (PBL)</b>	A detailed analysis is made of some specific, usually compelling event or series of related events so that learners will better understand its nature and what might be done about it.

### 10. Assessment Methods:

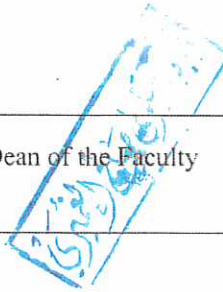
- Written exam (mid and final terms and quizzes),
- Final practical exam
- OSCE & OSPE
- Final oral exam
- Research

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- Homework
- Team work

Assessment Strategy	Description
<b>Written exam (mid and final terms and quizzes)</b>	Mid-term test is conducted in the 8 <sup>th</sup> week and final exam is conducted at the end of each course. Both tests are closed book, closed notes.  quizzes are related to past as well as topics discussed in the period. This helps students develop self-confidence, readiness, and accuracy in major exams.
<b>Final practical exam</b>	Final practical exam is carried on the end of each course in order to examine the student's practical skills.
<b>OSCE &amp; OSPE</b>	OSCE/OSPE stands for "Objective Structured Clinical Examination." OSCEs/OSPEs are very helpful in medical education because they allow a student to practice and demonstrate clinical skills in a standardized medical scenario.
<b>Final oral exam</b>	It's part of the final assessment of the student knowledge by which the examiner gives the question in spoken form.
<b>Research project</b>	At the end of study years, the students have to work in research project in order to achieve bachelor degree.
<b>Homework</b>	Individual assessment
<b>Teamwork</b>	Group assessment

**11. Alignment of Program Intended Learning Outcomes (PILOs) to Teaching Strategies and Assessment Methods:**

PILOs	Teaching Strategy	Assessment Methods
<b>Knowledge and Understanding A1, A2, A3, A4</b>	- Interactive lectures, - Seminars - Discussion - Case Study (CBL) - Office Hours - Self learning	-Quizzes - Written Exam -Final Oral Exam -Final Clinical Exam

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PILOs	Teaching Strategy	Assessment Methods
<b>Intellectual Skills</b> B1, B2, B3	-Interactive lectures, - Seminars - Discussion - Case Study (CBL) - Self Learning - PBL	-Written Exam -Final Oral Exam -Final Clinical Exam -Final Practical Exam
<b>Professional &amp; practical skills</b> C1, C2, C3	-Practical session . -Training -Case Study (CBL) - PBL	-Final Clinical Exam - Final Practical Exam - OSCE -OSPE
<b>General &amp; Transferable Skills</b> D1, D2, D3	- Seminars - Discussion - Case Study (CBL) - Self Learning - Presentation - PBL	- Homework - Teamwork - Research - Oral Discussion

### 12. Project Assessment:

Each project will be assessed as follows:

Item	Marks Distribution
Research Project	70
Discussion	30
<b>Total</b>	<b>100</b>

### 13. Training Course Assessment:

The training course will be assessed through:

- Log Book
- Case discussion
- Final clinical Exam
- OSCE
- Internship

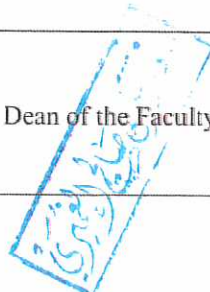
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### 14. Intended Learning Outcomes Mapping:

See below Annexes.

Annex- 10, Alignment of Program PILOs with Council of Accreditation and NARS Standards

### 15. Program Structure:

No	Requirements	No. of Courses	Credit Hours	Rational Weight %	
1	University Requirements	Compulsory	8	17	7.1%
		Elective	-		
2	Basic Requirements	Compulsory	-	-	-
		Elective	-		
3	Faculty Requirements	Compulsory	4	9	3.7%
		Elective	-		
4	Department Requirements	Compulsory	-	-	-
		Elective	-		
5	Program Requirements	Compulsory	27	118	48.8%
		Elective	-		
6	Field Training	Compulsory	17	94	38.8%
		Elective	-		
7	Project Courses	Compulsory	1	4	1.6%
		Elective	-		
Total:		57	242	100%	

### 15.1. University Requirements

#### Compulsory Courses ( 8 course/ 17 Hrs)

No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1.	1/1	A21U111	Islamic culture	ثقافة اسلامية	2	2	0	0	NONE
2.	1/1	A21U112	National culture	ثقافة وطنية	2	2	0	0	NONE

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3.	1/1	A21U113	English Language 1	لغة انجليزية 1	2	2	0	0	NONE
4.	1/1	A21U114	Arabic Language 1	لغة عربية 1	2	2	0	0	NONE
5.	1/1	A21U115	Computer Skills	مهارات الحاسوب	3	2	2	0	NONE
6.	1/2	A21U121	Arabic Language 2	لغة عربية 2	2	2	0	0	Arabic Language 1
7.	1/2	A21U122	English Language 2	لغة انجليزية 2	2	2	0	0	English Language 1
8.	1/2	A21U124	Arab and Israeli conflict	الصراع العربي الاسرائيلي	2	2	0	0	NONE
<b>Total</b>					<b>17</b>	<b>16</b>	<b>2</b>	<b>0</b>	

### 15.2. Faculty Requirements

#### Compulsory Courses (4 courses/ 9 Hrs)

No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	1/2	A21F123	Medical Terminology	مصطلحات طبية	2	2	0	0	English Language 1&2
2	1/1	A21F119	Medical Ethics	اخلاقيات الطب	2	2	0	0	NONE
3	1/1	A21F117	Communication Skills	مهارات التواصل	2	2	0	0	NONE
4	1/1	A21F118	Fundamental of Nursing	اساسيات التمريض	3	2	2	0	NONE
<b>Total</b>					<b>9</b>	<b>8</b>	<b>2</b>	<b>0</b>	

### 15.3. Program Major

#### Compulsory Courses ( 27 course / 118 Hrs)

N o.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	1/1	A21P116	Community Medicine (CMI)	طب مجتمع	3	3	0	0	NONE
2	1/1	A21P129	Introduction to Cell Biology and Histology	مقدمة في علم الخلية والانسجة العام	3	2	2	0	NONE
3	1/1	A21P125	Introduction to Anatomy & Embryology	مقدمة في علم التشريح والاجنة	5	4	2	0	Introduction to Cell Biology and Histology
4	1/1	A21P126	Introduction to Physiology	مقدمة في علم وظائف الاعضاء	3	3	0	0	NONE
5	1/2	A21P127	Introduction to Pathology	مقدمة في علم الأمراض	3	2	2	0	Introduction to Physiology.

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			Microbiology	الاحياء الدقيقة الطبية	3	2	2	0	
8	1/2	A21P212	Introduction to Pharmacology	مقدمة في علم الأدوية العام	3	2	2	0	Physiology and Biochemistry I
9	2/1	A21P213	Molecular Biology & Genetics	علم الاحياء الجزيئية والوراثة	2	2	0	0	
10	1/2	A21P214	Medical Parasitology	علم الطفيليات الطبية	3	2	2	0	Introduction to Microbiology
11	1/2	A21P215	Immunology	مناعة	3	2	2	0	Physiology Molecular Biology & Genetics
12	2/1	A21P216	Musculo-skeletal System	الجهاز الهيكلي العضلي	8	6	4	0	Physiology , Biochemistry I, Anatomy Cell biology Histology , Pathology and Pharmacology
13	2/2	A21P221	Haemato-lymphatic System	جهاز الدم والملف	5	4	2	0	Physiology , Biochemistry I, Anatomy Histology , Pathology and Pharmacology.
14	2/2	A21P222	Respiratory System	الجهاز التنفسي	8	6	4	0	Physiology , Biochemistry I, Anatomy Histology , Pathology and Pharmacology.
15	2/2	A21P223	Cardiovascular System	الجهاز الدوري القلبي	8	6	4	0	Physiology , Biochemistry I, Anatomy Histology , Pathology and Pharmacology
16	2/2	A21P224	Nutrition & Metabolism	التغذية والايض	3	2	2	0	Biochemistry I
17	2/2	A21P225	Medical Biostatistics (CM II)	الاحصاء الطبي	2	2	0	0	Community Medicine I
18	3/1	A21P311	Health Management (CM III)	إدارة صحية	2	2	0	0	Community Medicine I&2
19	3/1	A21P312	Gastro-intestinal system	الجهاز الهضمي	8	6	4	0	Physiology , Biochemistry I, Anatomy Histology , Pathology and Pharmacology
20	3/1	A21P313	Genito-Urinary System	الجهاز البولي والتناسلي	8	6	4	0	Physiology , Biochemistry I.

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No.	Level-Sem.	Block Code	Block Name	اسم البلاك	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
21	3/1	A21P314	Research Methodology	مناهج البحث العلمي	2	2	0	0	Anatomy Histology, Pathology and Pharmacology Community Medicine 1,2,3
22	3/2	A21P321	Endocrine System	جهاز الغدد الصماء	8	6	4	0	Physiology, Biochemistry, Anatomy Histology, Pathology and Pharmacology
23	3/2	A21P322	Central nervous System	الجهاز العصبي المركزي	10	8	4	0	Physiology, Biochemistry, Anatomy Histology, Pathology and Pharmacology
24	3/2	A21P324	public Health&Epidemiology(CMIV)	وبائيات وصحة عامة	4	3	3	0	Community Medicine 1,2,3
25	4/1	A21P414	Forensic Medicine & Clinical Toxicology	الطب الشرعي والسموم	3	2	3	0	All systems
26	1/2	A21P323	Biochemistry 2	2 كيمياء الحيوية	3	2	2	0	Biochemistry I
27	3/1	A21P315	Behavior Sciences	العلوم السلوكية	2	2	0	0	Communication Skills
<b>Total</b>					<b>118</b>	<b>91</b>	<b>58</b>		

**Field Attachments and Training (17 Block / 94 hrs)**

No.	Level-Sem.	Block Code	Block Name	اسم البلاك	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	4/1	A21P411	Obstetrics&Gynecology I	نساء وتوليد I	8	4	12	0	All systems
2	4/1	A21P412	Pediatrics I	طب الأطفال I	8	4	12	0	All systems
3	5/1	A21P413	Diagnostic Radiology	اشعة تشخيصية	3	2	3	0	All systems
4	4/2	A21P421	Internal Medicine I	باطنة عامة I	10	6	12	0	All systems
5	4/2	A21P422	General Surgery I	جراحة عامة I	10	6	12	0	All systems
6	4/2	A21P423	Emergency medicine	طب الطوارئ	3	2	3	0	Introduction to Pharmacology, All System, All clinical Subjects
7	5/2	A21P424	Anesthesia	التخدير	3	2	3	0	All systems
8	5/1	A21P511	Otorhino-laryngology (ENT)	انف، اذن وحنجرة	3	2	3	0	Introduction to Pharmacology, All System,

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No	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
9	5/1	A21P512	Psychiatry	الطب النفسي	3	2	3	0	All clinical Subjects Behavior sciences
10	5/1	A21P513	Ophthalmology	العيون	3	2	3	0	Introduction to Pharmacology.
11	5/1	A21P514	Neurosurgery	الجراحة العصبية	3	2	3	0	All System , All clinical Subjects
12	5/1	A21P516	Dermatology	امراض جلدية	3	2	3	0	All systems Microbiology, Parasitology, Immunology.
13	5/1	A21P517	Orthopedics	جراحة العظام	3	2	3	0	Musculo-skeletal System
14	5/2	A21P521	Internal Medicine II	باطنة عامة II	8	4	12	0	Internal Medicine I
15	5/2	A21P522	General Surgery II	جراحة عامه II	11	7	12	0	General Surgery I
16	5/2	A21P523	Obstetrics & Gynecology II	نساء وتوليد II	6	4	6	0	Obstetrics & Gynecology I
17	5/2	A21P524	Pediatrics II	طب الأطفال II	6	4	6	0	Pediatrics I
<b>17 Course</b>					<b>94</b>	<b>56</b>	<b>114</b>		

Project Work Courses (1 courses/ 4 Cr.Hrs)									
No	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	5/2	A21P525	Graduation Research(CM V)	بحث التخرج	4	0	0	12	Research Methodology
<b>Total</b>					<b>4</b>	<b>0</b>	<b>0</b>	<b>12</b>	

\* L= lecture \*\* T=tutorial/seminar, \*\*\* P= lab/workshop/training/clinical( 2hrs= lab training – 3hrs= clinical training in hospital

**16. Study Plan: Total Credit Hours = 242 C.H**

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Level 1											
Semester I											
No.	Courses Name	Course Code	Courses Name	اسم المقرر	NO W	Cr . Hr s.	L	P	T	Prerequisites, Co-requisites	
1	foundations 1	A21U111	Islamic culture	ثقافة اسلامية	16	2	2	0	0	NONE	
		A21U112	National culture	ثقافة وطنية		2	2	0	0	NONE	
		A21U113	English Language 1	لغة انجليزية 1		2	2	0	0	NONE	
		A21U114	Arabic Language 1	لغة عربية 1		2	2	0	0	NONE	
		A21F118	Fundamental of Nursing	اساسيات التمريض		3	2	2		NONE	
		A21U115	Computer Skills	مهارات الحاسوب		3	2	2	0	NONE	
2	Community Medicine I	A21P116	primary Health Care (CMI)	الرعاية الصحية الاولى		3	3	0	0	NONE	
		A21F117	Communication Skills	مهارات التواصل		2	2	0	0	NONE	
3	Introduction to Medical Basic Sciences	A21P129	Introduction to Cell Biology and Histology	مقدمة في علم الخلية والانسجة العام		3	2	2	0	NONE	
		A21P125	Introduction to Anatomy & Embryology	مقدمة في علم التشريح والاجنة		5	4	2	0	Introduction to Cell Biology and Histology	
		A21P126	Introduction to Physiology	مقدمة في علم وظائف الاعضاء		3	3	0	0	NONE	
		A21P128	Biochemistry(1)	كيمياء حيوية (1)		3	2	2	0	NONE	
<b>Total</b>						<b>16</b>	<b>33</b>	<b>28</b>	<b>10</b>	<b>0</b>	

Semester II										
No.	Courses Name	Course Code	Courses Name	اسم المقرر	NO W	Cr . Hr	L	P	T	Prerequisites, Co-requisites

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					s.					
1	Introduction to Medical Applied Sciences	A21P211	Introduction to Microbiology	مقدمة في علم الاحياء الدقيقة الطبية	16	3	2	2	0	
		A21P217	Introduction to Pathology	مقدمة في علم الأمراض		3	2	2	0	
2	Introduction to Medical Applied Sciences	A21P212	Introduction to Pharmacology	مقدمة في علم الأدوية العام	3	2	2	0	Physiology and Biochemistry	
		A21P214	Medical Parasitology	علم الطفيليات الطبية	3	2	2	0	Introduction to Microbiology	
		A21P215	Immunology	مناعة	3	2	2	0	Physiology Molecular Biology & Genetics	
3	foundations 2	A21U121	Arabic Language 2	لغة عربية 2	2	2	0	0	Arabic Language 1	
4		A21U122	English Language 2	لغة انجليزية 2	2	2	0	0	English Language 1	
5		A21F123	Medical Terminology	مصطلحات طبية	2	2	0	0	English Language 1&2	
6		A21U124	Arab and Israeli conflict	الصراع العربي الإسرائيلي	2	2	0	0	NONE	
		A21F11 9	Medical Ethics	اخلاقيات الطب	2	2	0	0	NONE	
		A21F11 7	Communication Skills	مهارات التواصل	2	2	0	0	NONE	
<b>Total</b>					<b>16</b>	<b>27</b>	<b>22</b>	<b>10</b>	<b>0</b>	

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Level 3										
Semester I										
No	Courses Name	Course Code	Courses Name	اسم المقرر	N O W	Cr. Hrs	L	P	T	Prerequisites, Co-requisites
1	Haemato-lymphatic System	A21P2 21	Haemato-lymphatic System	جهاز الدم واللمف	7	5	4	2	0	Physiology , Biochemistry, Anatomy Histology , Pathology and Pharmacology.
2	Genito-Urinary System	A21P3 13	Genito-Urinary System	الجهاز البولي والتناسلي	9	8	6	4	0	Physiology , Biochemistry, Anatomy Histology , Pathology and Pharmacology
3	Community Medicine III	A21P3 11	Health Management (CM II)	إدارة صحية	-	2	2	0	0	Community Medicine I&2
		A21P3 14	Research Methodology	مناهج البحث العلمي		2	2	0	0	Community Medicine 1,2,3
<b>Total</b>					<b>16</b>	<b>17</b>	<b>14</b>	<b>6</b>	<b>0</b>	

Level 3/Semester II										
No	Courses Name	Course Code	Courses Name	اسم المقرر	N O W	Cr. Hrs	L	P	T	Prerequisites, Co-requisites
1	Endocrine System	A21P3 21	Endocrine System	جهاز الغدد الصماء	7	8	6	4	0	Physiology , Biochemistry, Anatomy Histology , Pathology and Pharmacology
2	Central nervous System	A21P3 22	Central nervous System	الجهاز العصبي المركزي	9	10	8	4	0	Physiology , Biochemistry, Anatomy Histology , Pathology and Pharmacology
3	Community Medicine	A21P3 24	Epidemiology (CM IV)	الوبائيات		4	3	3	0	Community Medicine 1,2,3
4		A21P3 5	Behavior Sciences	العلوم السلوكية		2	2	0	0	Communication Skills
<b>Total</b>					<b>16</b>	<b>24</b>	<b>19</b>	<b>11</b>	<b>0</b>	

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Level 4									
Semester I									
No.	Course Code	Course Name	اسم المقرر	NO W	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	A21P411	Obstetrics & Gynecology I	نساء وتوليد 1	7	8	4	12	0	All systems
2	A21P412	Pediatrics I	طب الأطفال 1	7	8	4	12	0	All systems
3	A21P414	Forensic & Clinical Toxicology	الطب الشرعي والسموم	2	3	2	3	0	All systems
<b>Total</b>				<b>16</b>	<b>19</b>	<b>10</b>	<b>27</b>	<b>0</b>	
Level 4/ Semester II									
No.	Course Code	Course Name	اسم المقرر	NO W	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	A21P421	Internal Medicine 1	باطنة عامة 1	8	10	6	12	0	All systems
2	A21P422	General Surgery 1	جراحة عامة 1	8	10	6	12	0	All systems
3	A21P423	Emergency medicine	طب الطوارئ	-	3	2	3	0	Introduction to Pharmacology, All System, All clinical Subjects
<b>Total</b>				<b>16</b>	<b>23</b>	<b>14</b>	<b>27</b>	<b>0</b>	

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Level 5									
Semester I									
No.	Course Code	Course Name	اسم المقرر	NO W	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	A21P511	Otorhino-laryngology (ENT)	انف، اذن وحنجرة	-	3	2	3	0	Introduction to Pharmacology, All System , All clinical Subjects
2	A21P512	Psychiatry	الطب النفسي	-	3	2	3	0	Behavior sciences
3	A21P513	Ophthalmology	العيون	-	3	2	3	0	Introduction to Pharmacology.
4	A21P514	Neurosurgery	الجراحة العصبية	-	3	2	3	0	All System , All clinical Subjects
5	A21P424	Anesthesia	التخدير	-	3	2	3	0	All systems
6	A21P521	Internal II Medicine	الباطنة عامة II	8	8	4	12	0	Internal Medicine I,II,III
7	A21P522	General II Surgery	جراحة عامه II	8	11	7	12	0	General Surgery I,II,III
<b>Total</b>				<b>16</b>	<b>34</b>	<b>21</b>	<b>39</b>	<b>0</b>	
Level 5/Semester II									
No.	Course Code	Course Name	اسم المقرر	NO W	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
8	A21P517	Orthopedics	جراحة العظام	-	3	2	3	0	Musculo-skeletal System
9	A21P516	Dermatology	امراض جلدية	-	3	2	3	0	All systems Microbiology, Parasitology, Immunology
10	A21P413	Diagnostic Radiology	اشعة تشخيصية	-	3	2	3	0	All systems
11	A21P523	Obstetrics & gynecology II	نساء وتوليد II	8	6	4	6	0	Obstetrics & Gynecology I,II,III
12	A21P524	Pediatrics II	اطب الأطفال II	8	6	4	6	0	Pediatrics I,II,III
13	A21P525	Project Graduation Research (CM V)	مشروع بحث التخرج	-	4	0	0	12	Research Methodology
<b>Total</b>				<b>16</b>	<b>25</b>	<b>14</b>	<b>21</b>	<b>12</b>	

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13	A21P525	Project Graduation Research(CM V)	مشروع بحث التخرج	2	4	0	0	12	Research Methodology
<b>Total</b>				<b>42</b>	<b>59</b>	<b>35</b>	<b>60</b>	<b>12</b>	

### 16. Distribution of Total Credit Hours:

Level	Term	University Requirements		Faculty Requirements		Program Requirements		Training		Project		Total Cr. Hrs.		Total Cr. Hrs./ Level
		No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	No. of Courses	Credit Hours	
First	First	8	17	4	9	11	33					23	58	58
	Second													
Second	First					8	42					7	42	42
	Second													
Third	First					7	41					7	41	41
	Second													
Fourth	First					1	2	5	39			6	42	42
	Second													
Fifth	First							12	52			12	55	59
	Second													
<b>Total:</b>		<b>8</b>	<b>17</b>	<b>4</b>	<b>9</b>	<b>27</b>	<b>120</b>	<b>17</b>	<b>91</b>	<b>1</b>	<b>3</b>	<b>57</b>	<b>242</b>	<b>242</b>
<b>Percentage:</b>		<b>7.1%</b>		<b>3.7%</b>		<b>48.8%</b>		<b>38.8%</b>		<b>1.6%</b>			<b>100%</b>	

### 17. Admission Requirements:

1. Admissions to the program shall be made as per the admission rules set by the Ministry of Higher Education and Scientific Research as well as 21 Sep. University admission guidelines.
2. General Secondary school certificate (Science Section) or any equivalent certificate with grade as specified in the admission rules made by Ministry of Higher Education and Scientific Research.
3. Pass the aptitude test and personal interview if any.
4. Any necessary requirement for specialization, decided by the Faculty.

### 18. Attendance and Graduation Requirements:

1. Student attendance should not be less than 75%.
2. Student will graduate after successfully passing all program requirements.
3. Total credit hours for the program is 242 credit hours.
4. Minimum score for any student to pass any credit hours course is 65% marks.

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### 19. Grading System:

From 90% to 100% of total marks	Excellent
From 80% to less than 90%	Very Good
From 70% to less than 80%	Good
From 65% to less than 70%	Pass
Less than 65%	Poor/Fail

### 20. Facilities Required for Running the Program:

1. Sufficient Classrooms furnished with all necessary pieces and equipment.
2. Labs as per the course's specifications.
3. Computer Labs.
4. Academic and administrative staff offices.

### 21. Program Assessment:

Type of the Sample who Assess the program		Instruments used	Sample
1	Final year assessment	Questionnaire	Random
2	External examiner evaluation	Questionnaire	-Graduate Club - By Email
3	Graduated student evaluation	Reports	External University
4	External evaluator	Reports	External University
5	Council for Accreditation and Quality Assurance in Yemen	Reports	Review by team work

### 22. Program Quality Standards:

- Continuous evaluation
- Workshops

### 23. Internal and external training to satisfy program standards::

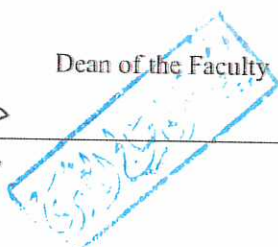
- Internally :- training in well-equipped labs
- Externally :- Training in hospital controlled by logbook

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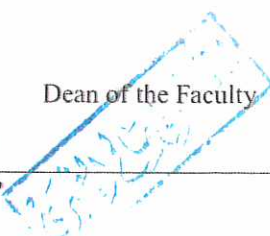
<b>24. Program Policies:</b>	
<b>Based on University Regulations</b>	
<b>1.</b>	<b>(Class Attendance) :</b> A student should attend not less than 75 % of total hours of the subject; otherwise he/she will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university Clinic. If the absent is more than 25% of a course total contact hours, student will be required to retake the entire course again.
<b>2.</b>	<b>(Tardy) :</b> For late in attending the class, the student will be initially notified. If he repeated lateness in attending class he/she will be considered as absent.
<b>3.</b>	<b>(Exam Attendance/Punctuality) :</b> A student should attend the exam on time. He/she is permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam.
<b>4.</b>	<b>(Assignments &amp; Projects) :</b> Assignments and projects are given as per course specification; the student has to submit all the assignments for checking on time, mostly one week after given the assignment.
<b>5.</b>	<b>(Cheating) :</b> For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty.
<b>6.</b>	<b>(Plagiarism) :</b> Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee proofed a plagiarism of a student, he/she will be disengaged from the Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university or according to the university roles.
<b>7.</b>	<b>(Other policies) :</b> <ul style="list-style-type: none"><li>- Mobile phones are not allowed to use during a class lecture. It must be closed; otherwise the student will be asked to leave the lecture room.</li><li>- Mobile phones are not allowed in class during the examination.</li><li>- Lecture notes and assignments might be given directly to students using soft or hard copy.</li></ul>

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Republic of Yemen

Ministry of Higher Education and scientific Research

21 SEPTEMBER University of Medical and Applied Sciences



الجمهورية اليمنية

وزارة التعليم العالي والبحث العلمي

جامعة 21 سبتمبر للعلوم التطبيقية والتطبيقية

## Annex- 1, Survey on the Strategic Orientations of the Department and Similar Departments, and their Alignment to the Strategic Orientations of the University and Faculty:

### Benchmarked Programs:

- 1- King Faisal University  
<http://www.kfu.edu.sa/>
- 2- University of Science and Technology (YUST)-Yemen  
<https://ustye.net/>
- 3- Cairo University , Medicine Program-Egypt  
<https://cu.edu.eg/>
- 4- Tehran university-IRAN  
<https://en.tums.ac.ir/en>
- 5- Newcastle University  
<https://www.ncl.ac.uk>
- 6- Misr University for Science and Technology  
<https://must.edu.eg/academics/college-of-medicine/>

### 1- Mapping of program Vision to the University and Faculty Visions:

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University Vision	Faculty of Medicine Vision	Medicine & surgery Program Vision
A contemporary University with National Responsibility and a Faith Identity.	A distinguished Medical Faculty capable of competing locally and regionally	No vision for the program. But Mission

## 2- Mission of the Corresponding program and Suggested Mission: :(Benchmarks)

#	The Program	Mission
1.	King Faisal University	To produce medical graduates (MBBS) who will provide high quality patient- centered care and fulfill the health care needs that covers the entire levels of clientele through scientific and evidence based researches and community engagement.
2.	Science and Technology University	تسمى كلية الطب والعلوم الصحية -جامعة العلوم والتكنولوجيا جاهدة لتخريج كوادر صحية مؤهلة تأهيلاً علمياً ومهارياً عالياً، ملتزمين بأخلاقيات المهنة وقادرين على التعلم المستمر، ليسهموا في الارتقاء بالوضع الصحي المحلي والإقليمي؛ وذلك بتبني نظام التعليم الطبي المتجه نحو المجتمع في بيئة تعليمية بحثية متطورة
3.	Cairo University	تخريج أفضل مستوى من الأطباء القادرين على العمل في مختلف نظم الرعاية الصحية المتمرسين على مهارات الخدمة الطبية الحديثة والملتزمين بأخلاقيات وأداب المهنة والتنمية المستدامة من خلال تدريب أطباء متخصصين قادرين على اجراء الأبحاث العلمية المتقدمة وتطبيق التقنيات الحديثة والمعايير الطبية القومية والدولية مع الاهتمام بتنمية القدرة التنافسية لراس المال البشري والسعي لخدمة المجتمع والمساهمة في حل المشاكل الصحية القومية.
4.	National University-Sudan	The Medicine and Surgery program - NUSU-FOMS strives towards developing the highest standards of educational excellence, health-related research, and appropriate social responsibility to produce medical practitioners who are ethical professionals, lifelong learners, innovative, critical thinkers aware of diversity and local, regional and global health issues.

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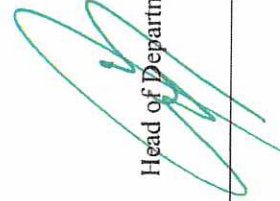
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#	The Program	Mission
5.	<b>Tehran University of Medical Sciences</b>	Medical Sciences (TUMS) mission is to educate students at all levels and disciplines of the medical sciences in accordance with the highest educational standards. The university educates future medical doctors, dentists, pharmacists, and health scientists to work in diverse communities.
6.	<b>Newcastle University</b>	We're committed to Newcastle University's 'Vision 2021'. The main aim of this is to become a world-class civic university.
7	<b>Misr University for Science and Technology</b>	The Medicine Program - Faculty of Medicine – Misr University for Science and Technology is committed to graduating a doctor with high efficiency in providing integrated health care and capable of scientific research, promoting social responsibility, supporting digital transformation and sustainable development in light of Egypt's vision 2030, within the framework of governing values.
8	<b>Medicine &amp; Surgery Program , Faculty of Medicine 21September University</b>	Providing the community with distinguished doctors with human values and who play an educational, training, research and health role that qualifies them for professional competence at the highest levels, and who are capable of continuous self-learning, providing quality health care and sustainable research follow-up that supports engagement and interaction with the local and global medical community.

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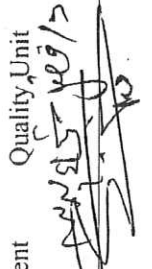
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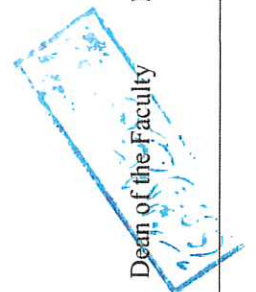


**3- Mapping of program Mission to the University and Faculty Missions:**

University Mission	Faculty of Medicine Mission	Medicine & surgery Program Mission
<p>Leading the transformation in the management and delivery of health care with all partners by setting a standard of excellence in education and medical and applied research in a way that meets the needs of Yemeni society, its specificity and regional influence.</p>	<p>The Faculty of Medicine be contemporary in providing a distinguished educational level based on creativity and innovation and a true partner in facing the main national health challenges and in treating patients with high quality based on research to solve problems that leads to integrated health care in an ethical context.</p>	<p>Providing the community with distinguished doctors with human values and who play an educational, training, research and health role that qualifies them for professional competence at the highest levels, and who are capable of continuous self-learning, providing quality health care and sustainable research follow-up that supports engagement and interaction with the local and global medical community.</p>

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## 4- Objectives (Educational) of the Corresponding program and Suggested Objectives:

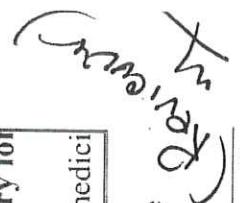
#	The Program	Objectives
1.	King Faisal University	<ul style="list-style-type: none"><li>- Equip graduates with relevant knowledge, skills and values to become leaders in healthcare communities using high standards in teaching and learning.</li><li>- Operate a learning environment with responsive work force, management, and support structure.</li><li>- Provide a quality-assured medical education that is duly accredited.</li><li>- Promote self-directed, goal focused, lifelong learners by providing conducive environment for conducting high standards research</li><li>- Engage responsively in the health systems by working with relevant and effective community collaborations and partnerships.</li><li>- Build effective application of information technology across the program.</li></ul>
2.	Science and Technology University	<ol style="list-style-type: none"><li>1. رفد المجتمع بكوادر صحية ذات كفاءات ومهارات مهنية متميزة .</li><li>2. تقديم برامج أكاديمية صحية متميزة طبقاً لمعايير الجودة والاعتماد الأكاديمي.</li><li>3. الإسهام في تقديم وتطوير الخدمات الصحية في المجتمع.</li><li>4. توفير بيئة تعليمية وبحثية تلبي احتياجات المجتمع.</li><li>5. تفعيل التواصل مع المؤسسات المحلية والأكاديمية ذات الصلة بالرعاية الصحية</li></ol>
3.	Cairo University	<p>The aim of the program is to provide the graduate with educational experience necessary for further training and practice in medicine through:</p> <ol style="list-style-type: none"><li>1. A core body of scientific knowledge, skills and attitudes essential for the practice in medicine</li></ol>

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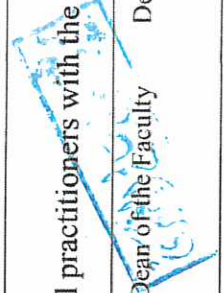
#	The Program	Objectives
		<ol style="list-style-type: none"> <li>2. . Diagnostic, problem solving and decision-making skills necessary for proper evaluation and management of common diseases and emergencies</li> <li>3. Awareness and participation in the social and community aspects of health care.</li> <li>4. Appropriate ethical and professional skills necessary for establishment of excellent communication with patients and colleagues</li> <li>5. Lifelong learning competencies necessary for continuous professional development.</li> <li>6. Research methodology as related to medical practice.</li> </ol>
4.	<b>National University–Sudan</b>	<p>Graduated General Practitioners within few years of graduation will be able to:</p> <ol style="list-style-type: none"> <li>1. Formulate and apply safe and effective management plans for major diseases and conditions.</li> <li>2. Communicate effectively and sensitively with patients and patients' families, embodying ethical and professional standards.</li> <li>3. Communicate and collaborate effectively with members of healthcare teams to provide optimal, interprofessional patient-centered care.</li> <li>4. Commit to lifelong learning to keep pace with advances in healthcare practices and technologies.</li> <li>5. Incorporate the social determinants of health into healthcare practices.</li> <li>6. Lead, participate, and support preventive programs, management protocols, and research projects in their local and regional communities.</li> <li>7. Appraise and comprehend effectively the health needs of their local and regional communities.</li> <li>8. Facilitate the communication between local / international healthcare policymakers and the local community for an efficient, up-to-date, community-oriented medical service.</li> </ol>
5.	<b>Tehran University of Medical Sciences</b>	<p>The aim of this course is to provide general practitioners with the following abilities:</p>

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#	The Program	Objectives
6.	<b>Newcastle University</b>	<ul style="list-style-type: none"> <li>• Familiar with the mechanisms of health and disease.</li> <li>• Familiar with major health issues and ability to integrate Medical Knowledge to address the mechanisms of health and disease</li> </ul> <ol style="list-style-type: none"> <li>1- Demonstrate an ability to think critically, a proficiency in clinical reasoning, an insight into research and scientific method, a resourcefulness and creativity, and an ability to cope with uncertainty;</li> <li>2- possess an integrated core knowledge of biomedical, behavioural, population and clinical knowledge relevant to the understanding and management of problems and conditions encountered in the Foundation Programme F1 year;</li> <li>3- possess a range of generic (transferable) skills which are those expected of all university graduates;</li> <li>4- demonstrate competence in those core clinical, interpersonal, and practical/technical skills relevant to the commencement of the Foundation Programme F1 year and in line with the 'New Doctor'.</li> <li>5- demonstrate appropriate professional behaviours in relation to all aspects of clinical practice;</li> <li>6- demonstrate attitudes consistent with 'Duties of a Doctor' as defined by the GMC in Good Medical Practice. broaden their academic, individual and professional perspectives through special study.</li> </ol>
7	<b>Misr University for Science and Technology</b>	<p><b>Overarching Aims of the Program</b>  <i>To provide the graduate with:</i></p> <ol style="list-style-type: none"> <li>1. Scientific knowledge and understanding essential to practice medicine at the primary health care and different specialties of medicine, in the context of the individual and his or her family and in society.</li> </ol>

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#	The Program	Objectives
8	<p align="center"><b>Medicine &amp; Surgery Program , Faculty of Medicine -21September University</b></p>	<p>2. Essential Clinical, practical and administrative competencies for health promotion and proper evaluation and management of common health problems.</p> <p>3. Essential ethical, professional and communication skills for standard medical practice maintaining good doctor- patient relationship and appropriate collaboration in healthcare team.</p> <p>4. Lifelong learning competencies necessary for continuous professional development including self- learning and principles of medical research.</p> <p>1. Graduating competent doctors who possess the basic medical knowledge and skills to practice medicine with efficiency and serve the community.</p> <p>2. Improve the practical and clinical skills with advanced scientific methods</p> <p>3. Develop the students diagnostic and therapeutic skills in solving various health problems.</p> <p>4. Develop students' critical thinking in clinical that influences the creativity and the ability to deal with versatile medical aspects.</p> <p>5. Prepare graduates to become able Integrate into a team work with sincerity and integrity</p> <p>6. Prepare the students with abilities and skills that qualify them to join higher studies and training programs that allow them to specialize, improve performance and professional development.</p> <p>7. Enhancing the principles of professional, ethical and national responsibility among students.</p> <p>8. Providing students with self-learning skills and using information technology, medical evidence and scientific research to keep pace with the latest developments in the field.</p>

**5- Mapping of program Objectives to the University and Faculty Objectives:**

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University Objectives	Faculty of Medicine Objectives	Medicine & Surgery Program Objectives
<ol style="list-style-type: none"> <li>1. Ensuring the application of quality standards and setting standards of excellence in medical and applied sciences, scientific research and community service.</li> <li>2. The centrality of the student in the educational process, the partnership with them for life, the consolidation of the principles of national responsibility and faith identity, their care and the development of their capabilities after graduation and during work.</li> <li>3. Attracting, employing and retaining scholars, cadres and highly specialized talents to gain minds and reverse the trend of "brain drain" in a way that promotes and ensures the creation of thinkers, businessmen and good citizens.</li> <li>4. Continuous development of the distinguished academic infrastructure and the establishment of modern research and service centers with high efficiency and capable of making a real impact locally and regionally.</li> <li>5. Enhancing the university's position as a preferred partner for local, regional and international partnership through</li> </ol>	<ol style="list-style-type: none"> <li>1. Finding effective solutions for the university hospital, the infrastructure of the College and its annual budget.</li> <li>2. Bridging the gap in the human resources adequately and efficiently, and developing them on a professional basis.</li> <li>3. Improving the quality of the human medicine program to be met with the quality standards, national and international academic accreditation.</li> <li>4. Strengthening the governance and management systems, consolidating the decentralization, and practicing the transparency and accountability.</li> <li>5. Building up the students' abilities to think, analyze and solve the problems according to the research methods that qualify them for the labor market and achieve their practical and professional aspirations in future.</li> <li>6. Contributing in supporting the science-oriented research on the basis of planning</li> </ol>	<ol style="list-style-type: none"> <li>1. Graduating competent doctors who possess the basic medical knowledge and skills to practice medicine with efficiency and serve the community.</li> <li>2. Improve the practical and clinical skills with advanced scientific methods</li> <li>3. Develop the students diagnostic and therapeutic skills in solving various health problems.</li> <li>4. Develop students' critical thinking in clinical that influences the creativity and the ability to deal with versatile medical aspects.</li> <li>5. Prepare graduates to become able Integrate</li> </ol>

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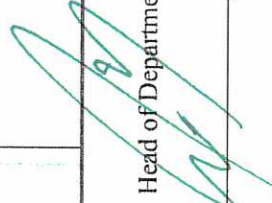
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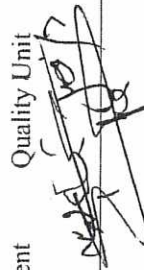
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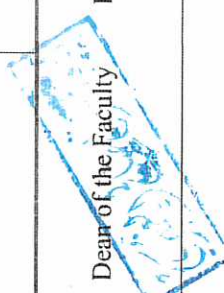




University Objectives	Faculty of Medicine Objectives	Medicine & Surgery Program Objectives
<p>implementing innovative models of education, exchanging research and knowledge, and providing real and effective outcomes for developing professional practices to benefit from them locally and regionally.</p>	<p>related to the goals of comprehensive development in Yemen.</p> <p>7. Forming real and effective partnership with the society, its institutions and the counterpart faculties at national, Arab and international level.</p>	<p>into a team work with sincerity and integrity</p> <p>6. Prepare the students with abilities and skills that qualify them to join higher studies and training programs that allow them to specialize, improve performance and professional development.</p> <p>7. Enhancing the principles of professional, ethical and national responsibility among students.</p> <p>8. Providing students with self-learning skills and using information technology, medical evidence and scientific research to keep pace with the latest developments in the field.</p>

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University Objectives	Faculty of Medicine Objectives	Medicine & Surgery Program Objectives

6- Mapping of Program Values with the University and Faculty Values:

University Values	Faculty of Medicine Values	Medicine & Surgery Program Values
<p>1- <b>University Values:</b></p> <ol style="list-style-type: none"> <li>1. Leadership and influence</li> <li>2- Excellence</li> <li>3- Creativity</li> <li>4- Teamwork</li> </ol>	<p><b>Faculty Values:</b></p> <ol style="list-style-type: none"> <li>1. Professional</li> <li>2. Continuous Education.</li> <li>3. Appreciation of Science and Scientists.</li> <li>4. Transparency</li> <li>5. Accountability.</li> <li>6. Team Work</li> </ol>	

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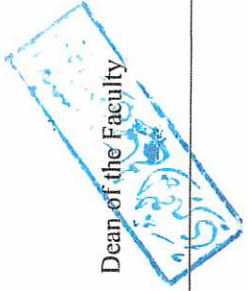
**Annex- 2, Academic Standards Curriculum Criteria of Accreditation Board**

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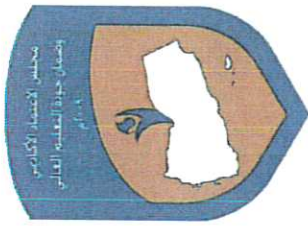
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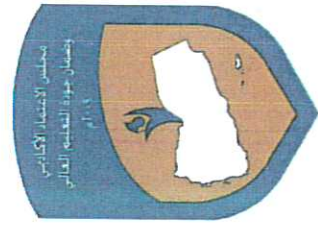
Council for Accreditation & Quality Assurance

**National Academic Reference Standards (NARS) For  
Medical Sciences**

Second Edition

Council for Accreditation & Quality Assurance, Yemen

June 2022



Council for Accreditation & Quality Assurance

**National Academic Accreditation Standards For  
Medical Sciences**

Second Edition

Council for Accreditation & Quality Assurance, Yemen

April 2022

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Republic of Yemen

Ministry of Higher Education and scientific Research  
21 SEPTEMBER University of Medical and Applied Sciences



الجمهورية العربية اليمنية  
وزارة التعليم العالي والبحث العلمي  
جامعة 21 سبتمبر للعلوم الطبية والتطبيقية

**Annex- 3, Unified Regulations for Student Affairs, Ministry of Higher Education and Scientific Research**

Attached Separately

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Annex- 4, Survey of Similar Accredited Programs at National and International Universities (Benchmarks)

Program No.	The Academic Program	The University	Website	The Faculty	The Department	The Country	Degree Award at Program Completion	Program Accrediting Body	Year of Accreditation	Study Duration
Current Program	Medicine & surgery	21 September University	<a href="https://21umas.edu.ye">https://21umas.edu.ye</a>	Medicine	Medicine & surgery	Yemen	MBBS	Ministry of Higher Education and Scientific Research in Yemen	2016	five Year and year Internship (5+1)
The 2 <sup>nd</sup> Program	Medicine Program	King Faisal University	<a href="http://www.kfu.edu.sa">http://www.kfu.edu.sa</a>	Medicine	Medicine	Kingdom Saudi Arabia	MBBS	Education & Training Evaluation Commission	2020	five Year and year Internship (5+1)
The 3 <sup>rd</sup> Program	Medicine Program	University of Science and Technology	<a href="https://ust.edu/usty/ar/med">https://ust.edu/usty/ar/med</a>	Medicine and Health Sciences	Medicine	Yemen	MBBS	Ministry of Higher Education and Scientific Research in Yemen	2012	Six Year and year Internship (6+1)
The 4 <sup>th</sup> Program	Medicine Program	Cairo University	<a href="https://cu.edu.eg/">https://cu.edu.eg/</a>	Faculty of Medicine	Department of Medicine	Egypt	MBBCh	National Authority for Quality Assurance and Accreditation of Education (NAQAAE)	2022	Six Year and year Internship (5+2)
The 5 <sup>th</sup> Program	Medicine Program	Tehran University of Medical Sciences	<a href="https://en.tums.ac.ir/en">https://en.tums.ac.ir/en</a>	Medicine and Health Sciences	Medicine	IRAN	MBBS	Accreditation Service for International Colleges	2014	(5.5) years with Clinical Clerkship
The 6 <sup>th</sup> Program	Medicine Program	Newcastle University	<a href="https://www.ncl.ac.uk/">https://www.ncl.ac.uk/</a>	School of Medicine	School of Medicine	UK	MBBS	General Medical council	2021	five Year and year Internship (5+1)
The 7 <sup>th</sup> Program	Medicine and Surgery	Misr University for Science and Technology	<a href="https://must.edu.eg/academics/college-of-medicine/">https://must.edu.eg/academics/college-of-medicine/</a>	Faculty of Medicine, MUST	Faculty of Medicine, MUST	Egypt	M.B., B.Ch of Medicine and Surgery	international academic guidelines for Egyptian and International students,	2022	5 Years

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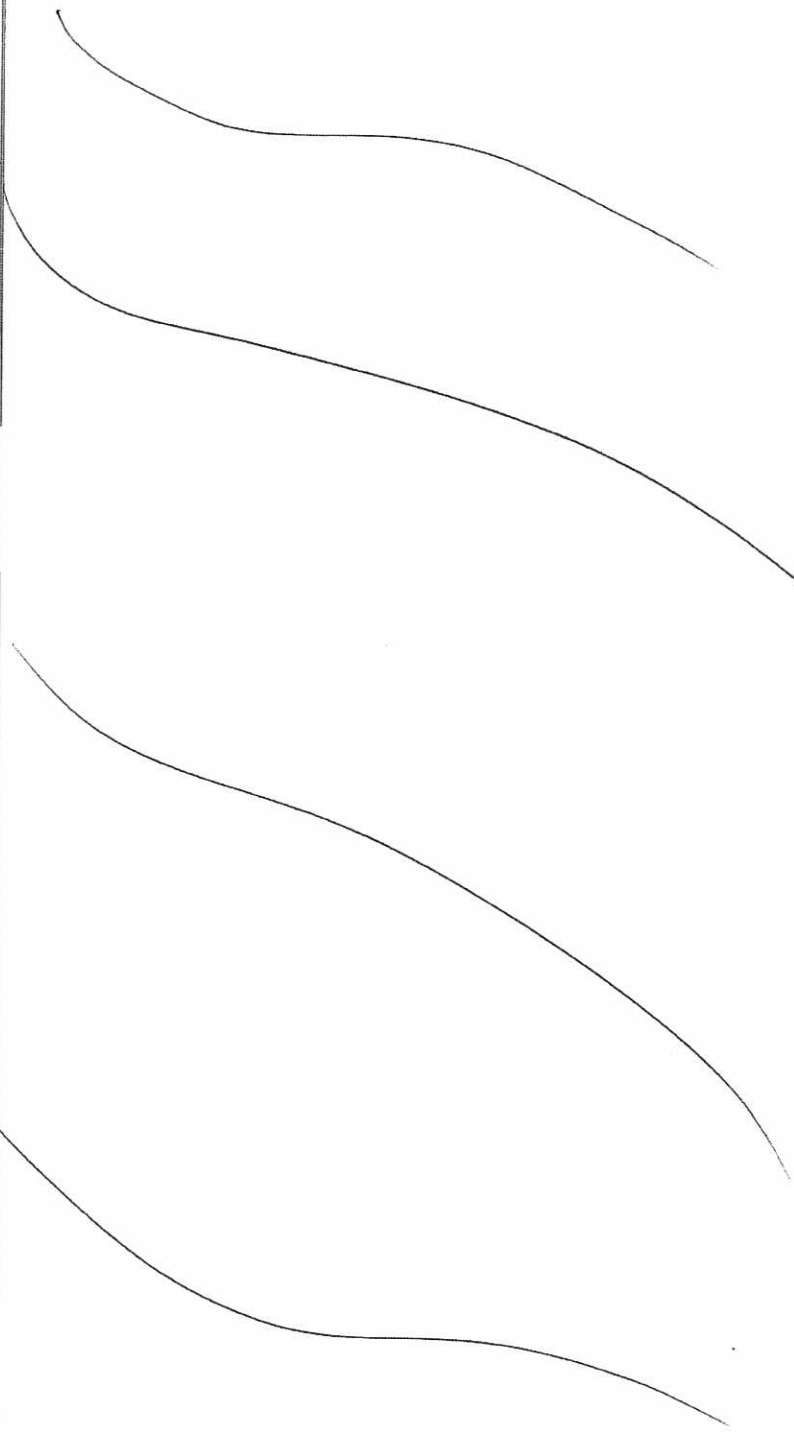
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21 September University of Medical and Applied Sciences Bachelor of Medicine and Surgery (MBBS) Program Specifications

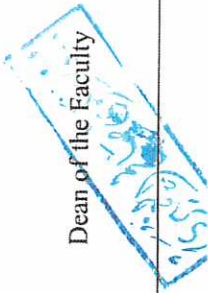


Program No.	The Academic Program	The University	Website	The Faculty	The Department	The Country	Degree Award at Program Completion	Program Accrediting Body	Year of Accreditation	Study Duration
								since its establishment in 2022		



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Ministry of Higher Education and scientific Research

21 SEPTEMBER University of Medical and Applied Sciences

الجمهورية اليمنية

وزارة التعليم العالي والبحث العلمي  
جامعة 21 سبتمبر للعلوم الطبية والتطبيقية

### Annex- 5, Survey on Mission and Objectives of the Program and Similar Accredited Programs and its Alignment to the University, Faculty, and Program Missions and objectives

#### 1- Survey on Mission and Objectives of the Program and Similar Accredited Program

University	King Faisal University	University of Sciences and Technology	Cairo University	Misir University for Science and Technology	Tehran University	Newcastle University	21 Sep. University
Faculty	Medicine	Medicine & Health Sciences	Medicine	Faculty of Medicine, MUST	Medicine & Health Sciences	School of Medicine	Medicine
Department	Medicine	Medicine	Medicine	Faculty of Medicine, MUST	Medicine	Medicine	Medicine & surgery
Program	Medicine	Medicine	Medicine	Medicine & Surgery	Medicine	Medicine	Medicine & surgery
Country	Kingdom Saudi Arabia	Yemen	Egypt	Egypt	IRAN	UK	Yemen
Program Mission	To produce medical graduates (MBBS) who will provide high quality patient-centered care and fulfill the health care needs that covers the entire	تسعى كلية الطب والطوم الصحية - جامعة العلوم والتكنولوجيا جاهدة لتخريج كوادر صحية مزودة تأهيلاً علمياً ومهاريًا عاليًا، لتزويد باخلاقيات المهنة وقادرين على التعلم المستمر، ليسهموا في الارتقاء بالوضع الصحي	تخريج أفضل مستوى من الأطباء القادرين على العمل في مختلف نظم الرعاية الصحية المتمرسين على مهارات الخدمة الطبية الحديثة والمتأدين بأخلاقيات وأداب المهنة والتنمية المستدامة من خلال تدريب أطباء متخصصين	The Medicine Program - Faculty of Medicine - Misir University for Science and Technology is committed to graduating a doctor with high efficiency in	Medical Sciences (TUMS) mission is to educate students at all levels and disciplines of the medical sciences in accordance with the highest educational standards. The	Our mission is to educate students at all levels and disciplines of the medical sciences in accordance with the highest educational standards. We educate future	Providing the community with distinguished doctors with human values and who play an educational, training, research and health role that qualifies them for professional competence at the

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21 September University of Medical and Applied Sciences Bachelor of Medicine and Surgery (MBBS) Program Specifications



<p>highest levels, and who are capable of continuous self-learning, providing quality health care and sustainable research follow-up that supports engagement and interaction with the local and global medical community.</p>	<p>medical doctors, dentists, pharmacists, and health scientists to work in diverse communities</p>	<p>university educates future medical doctors, dentists, pharmacists, and health scientists to work in diverse communities.</p>	<p>providing integrated health care and capable of scientific research, promoting social responsibility, supporting digital transformation and sustainable development in light of Egypt's vision 2030, within the framework of governing values.</p>	<p>البحرین علی اجراء الأبحاث العلمية المتقدمة وتطبيق التقنيات الحديثة والمعايير الطبية القومية والدولية مع الاهتمام بتنمية القدرة التنافسية لرأس المال البشري والسعي لخدمة المجتمع والمساهمة في حل المشاكل الصحية القومية.</p>	<p>المحلي والإقليمي؛ وذلك تبني نظام التعليم الطبي المتجه نحو المجتمع في بيئة تعليمية بحثية متطورة</p>	<p>levels of clientele through scientific and evidence based researches and community engagement.</p>	<p>Program Objectives</p>
<p>1. Graduating competent doctors who possess the basic medical knowledge and skills to practice medicine with efficiency and serve the community</p> <p>2. Improve the practical and clinical skills with advanced scientific methods</p> <p>3. Develop the students diagnostic and therapeutic skills</p>	<p>to Newcastle University's 'Vision 2021 The main aim of this is to become a world-class civic university</p>	<p>1-Show professional and competent behavior in their interactions with patients, those who accompany the Patient and all members of the care team.</p> <p>• In different clinical and crisis situations, attain the power of management, skill and confidence necessary to</p>	<p>To provide the graduate with:</p> <p>1. Scientific knowledge and understanding essential to practice medicine at the primary health care and different specialties of medicine, in the context of the individual and his or her family and in society.</p> <p>2. Essential Clinical, practical and administrative competencies for</p>	<p>The aim of the program is to provide the graduate with educational experience necessary for further training and practice in medicine through:</p> <p>1. A core body of scientific knowledge, skills and attitudes essential for the</p>	<p>1- رفد المجتمع بكوادر صحية ذات كفاءات ومهارات مهنية متميزة</p> <p>2- تقديم برامج أكاديمية صحية متميزة طبقاً لمعايير الجودة والاعتماد الأكاديمي.</p> <p>3- الإسهام في تقديم وتطوير الخدمات الصحية في المجتمع.</p>	<p>- Equip graduates with relevant knowledge, skills and values to become leaders in healthcare communities using high standards in teaching and learning.</p> <p>- Operate a learning environment with responsive work force,</p>	<p>Program Objectives</p>

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<p>management, and support structure.</p> <ul style="list-style-type: none"> <li>- Provide a quality-assured medical education that is duly accredited.</li> <li>- Promote self-directed, goal focused, lifelong learners by providing conducive environment for conducting high standards research</li> <li>- Engage responsibly in the health systems by working with relevant and effective community collaborations and partnerships.</li> <li>- Build effective application of information technology across the program.</li> </ul>	<p>4- توفير بيئة تعليمية وبحثية تلبي احتياجات المجتمع.</p> <p>5- تفعيل التواصل مع المؤسسات المحلية والاكاديمية ذات الصلة بالرعاية الصحية.</p>	<p>practice in medicine.</p> <ol style="list-style-type: none"> <li>2. Diagnostic, problem solving and decision-making skills necessary for proper evaluation and management of common diseases and emergencies.</li> <li>3. Awareness and participation in the social and community aspects of health care.</li> <li>4. Appropriate ethical and professional skills necessary for establishment of excellent communication with patients and colleagues.</li> <li>5. Lifelong learning</li> </ol>	<p>health promotion and proper evaluation and management of common health problems.</p> <ol style="list-style-type: none"> <li>3. Essential ethical, professional and communication skills for standard medical practice maintaining good doctor- patient relationship and appropriate collaboration in healthcare team.</li> <li>4. Lifelong learning competencies necessary for continuous professional development including self-learning and principles of medical research.</li> </ol>	<p>perform professional duties as expected from a responsible physician</p> <ul style="list-style-type: none"> <li>• manage all patients with common, important to emergent complains and diseases, using the whole spectrum of medical skills from resuscitating and stabilizing the patient, to history taking, performing necessary physical examinations, and reaching differential diagnosis and going toward further steps.</li> <li>• Take the necessary steps to achieve the diagnosis and management of the patient and manage</li> </ul>	<p>in solving various health problems.</p> <ol style="list-style-type: none"> <li>4. Develop students' critical thinking in clinical that influences the creativity and the ability to deal with versatile medical aspects.</li> <li>5. Prepare graduates to become able to integrate into a team work with sincerity and integrity</li> <li>6. Prepare the students with abilities and skills that qualify them to join higher studies and training programs that allow them to specialize, improve performance and professional development.</li> <li>7. Enhancing the principles of professional, ethical and national</li> </ol>
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			<p>competencies necessary for continuous professional development. 6. Research methodology as related to medical practice.</p>	<p>his or her complaint appropriately. • approach algorithmically Based on scientific evidence-based knowledge and “practical approved guidelines” on diagnostic and therapeutic measures, in accordance with the protocols of emergency medicine, as a responsible medical practitioner and efficient member of emergency ward team.</p>		<p>responsibility among students. 8. Providing students with self-learning skills and using information technology, medical evidence and scientific research to keep pace with the latest developments in the field.</p>
<p>Program ILOs</p>	<p><b>Knowledge and Understanding</b> K1. Interpret the principles of structures and functions, health,</p>	<p><b>Knowledge and Understanding</b> A1. Structure and function of the human body in health – anatomy,</p>	<p><b>a. Knowledge and Understanding</b> By the end of the program, the graduate will gain knowledge and</p>	<p><b>Clinical and Professional Skills</b> o Developing and maintaining</p>	<p><b>Knowledge and Understanding</b> A1. Demonstrate knowledge and understanding of</p>	<p><b>A.KNOWLEDGE AND UNDERSTANDING</b> Upon successful completion of an</p>

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<p>psychological, pharmacological, medical (basic, social and clinical sciences) and underlying principles K2. Discuss common disease's clinical manifestations, differential diagnosis and consequences of diseases including the principles of early diagnosis of malignancy, common medical and surgical emergencies keeping in mind basic sciences knowledge. K3. Explain different management for common clinical situations including common diagnostic</p>	<p>biochemistry, physiology, cell biology A2. Fundamentals of social and behavioural sciences as relevant to medicine A3. Biology of disease processes – infection, inflammation, immunity, thrombosis, neoplasia, genetics A4. Generic principles of medical assessment, investigation, diagnosis, clinical</p>	<p><u>understanding to be able to:</u> A1 Describe the normal structure and function of human body. A2 Describe molecular, biochemical and cellular mechanisms needed in maintaining homeostasis. A3 Identify the developmental changes in humans and the effect of growth and aging on individuals and their family. A4. Describe basics of normal and abnormal human behaviors. A5 Identify altered structure and function of humans</p>	<p><i>graduate should be able to:</i> A1. Explain molecular, biochemical and cellular mechanisms which are important in maintaining the body homeostasis and how they may deviate to cause illness. A2. Describe basic principles of human genetics in relation to health and disease, principles of gene therapy and genetic counselling. A3. Describe the structure and</p>	<p>professional behaviors o Develop interpersonal and communication skills for an effective collaboration with patients, their families o Develop skills for evidence based learning and practice o Ability to use the latest scientific resources and make use of new information in their work o Practical ability to diagnosis and management of common medical</p>	<p>Normal structure and function of the major organ systems and how they interrelate The different stages of the life cycle and how these affect normal structure and function <input type="checkbox"/> Behaviour and relationships between individuals and their family / partners, immediate social groups, and society at large <input type="checkbox"/> Molecular, biochemical and cellular mechanisms important in maintaining homeostasis <input type="checkbox"/> Causes of disease and the ways in which</p>	<p>undergraduate medical education program, the graduates will be able to: A1. Describe the general and basic sciences related to human body structure and functions with emphasis on normal and abnormal conditions. A2. Identify the progress of human body through all stages of development, alteration of structure and function during these stages and indication for surgical or non-surgical intervention and the role of treatment in healing or curing the diseases. A3. Explain the pathological and</p>
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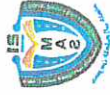
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<p>tools, both the pharmacological and non-pharmacological therapies considering the different medical, social, psychological and cultural backgrounds</p> <p>K4. Outline the ethical principles of research, basic principles of scientific research methods, biomedical statistics and data management.</p> <p><b>SKILLS</b></p> <p>S1. Demonstrate clinical reasoning, critical and analytical skills in discussing the patient's complaints,</p>	<p>decision-making, treatment</p> <p>A5. Knowledge of specific disease states and conditions, learned in a system-specific context</p> <p>A6. Pharmacology, therapeutics, and principles of safe prescribing of drugs</p> <p>A7. Public health and epidemiology of disease.</p> <p>Organisation of healthcare services.</p> <p>A8. Psychological aspects of medicine</p>	<p>in various diseases and conditions in relation to gender and age.</p> <p>A6 Describe the common diseases and life-threatening conditions as regards etiology, pathogenesis, clinical features, differential diagnosis and complications throughout the different age groups.</p> <p>A7 Define the principles of management for common diseases and life-threatening conditions including pharmacological basis of drugs, non-invasive and</p>	<p>function of human body and its major systems, with correlation to relevant clinical applications.</p> <p>A4. Recognize normal and abnormal development of human starting from intrauterine life, pregnancy, childbirth, growth and development, ageing and death.</p> <p>A5. Discuss Basics of normal human behavior and relationship in the context of family and community, psychological consequences of illness and</p>	<p>problems and/ or emergency diseases</p>	<p>disorders affect the body</p> <p><input type="checkbox"/> Disease actiology and relationships with risk-factors and disease prevention</p> <p><input type="checkbox"/> Alteration in structure and function of the body &amp; its major organ systems</p> <p><input type="checkbox"/> Pharmacologic al principles of treatment using drugs &amp; efficacy of therapeutic measures in management and symptomatic relief of diseases</p> <p><input type="checkbox"/> Principles of disease surveillance and screening, disease prevention, health promotion and health needs assessment</p>	<p>pathogenesis changes in various diseases, and their etiological triggers including genetic, developmental, infectious, metabolic endocrinal, autoimmune, neoplastic, traumatic degenerative and occupational factors.</p> <p>A4. Recognize the local and international guidelines, ethics, disease management, prevention and other risk factors that affect community health.</p> <p><b>B. COGNITIVE /INTELLECTUAL SKILLS</b></p> <p>Upon successful completion of an undergraduate medical education program, the graduates will be able to:</p>
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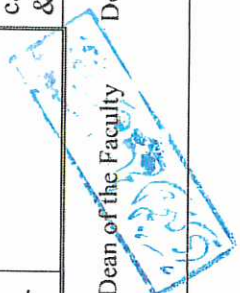
	<p>presenting the different possible solutions and therapies while considering the different medical, social, psychological and cultural backgrounds keeping in mind basic sciences knowledge.</p> <p>S2. Integrate and organize the historical, physical and investigative findings into a meaningful differential diagnosis formulation, including identifying the most probable diagnosis in a patient.</p> <p>S3. Recognize the reflection methodology and demonstrate</p>	<p>A9. Relevance of basic and applied research to medicine; evidence-based medical practice</p> <p>A10. Knowledge and understanding of medical ethics.</p> <p>A11. Knowledge and understanding of legal and professional responsibilities.</p> <p>Role of the GMC and medical defense organizations.</p> <p><b>C. Professional and Practical Skills</b></p>	<p>invasive interventions, basic pre- and post-operative care, pain relief and palliative care.</p> <p>A8 Describe the theoretical basis of professional, practical skills and evidence based medicine (EBM).</p> <p>A9 Describe the role of genetics in health and disease and the basic principles of gene therapy and genetic counseling</p> <p>A10 Identify the determinants of health, principles of health promotion, disease prevention, early detection and control of common community health</p>	<p>abnormal human behavior.</p> <p>A6. Discuss altered structure and function of human body given in clinical context of various diseases and injury.</p> <p>A7. Recognize aetiology, pathogenesis, clinical features of common, mental and lifethreatening illnesses affecting the body and its major organ systems, presenting throughout the age spectrum.</p> <p>A8. Recognize epidemiology of common and life-</p>		<p><input type="checkbox"/> Principles of healthcare planning, prioritisation of service and communicable disease control, including basic concepts of health economics</p> <p><input type="checkbox"/> Epidemiological principles of demography and biological variability</p> <p><input type="checkbox"/> Educational principles through which learning takes place (for patients, students and colleagues)</p> <p>A2. Be able to define public health problems at a population level or in clinical practice</p> <p>recognise the causes of disease &amp; threats to</p>	<p>B1. Compare between normal and abnormal conditions and predict the appropriate treatment or intervention.</p> <p>B2. Analyze and interpret the finding from history, clinical examination and investigations to propose a diagnosis and develop a shared management plan for common acute, chronic and urgent physical and mental health presentations.</p> <p>B3. Explore to medical practice the principles, method and knowledge of population health and the improvement of health and healthcare.</p> <p><b>C. PRACTICAL AND</b></p>
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transparent and efficient reflective attitude in both academic and clinical situations S4. Design effective therapeutic and ongoing management of an individual patient and population at large besides drafting of diagnosis and/or treatment plans with description of the different therapeutic modalities S5. Apply epidemiological aspects in practice including practicing infection control at all levels and transfer patient safety guidelines to the practical level.	C1. Elicit a clinical history from a patient C2. Perform clinical examination C3. Elicit patient concerns and expectations C4. Provide explanation and advice C5. Provide First Aid and resuscitation effectively when required C6. Make effective use of computers and information technology as applied to patient care	problems including disease surveillance and screening. A11 Define the principles of management and appropriate quality concepts and processes required for healthcare facilities. A12 Describe the epidemiologic principles and the effect of social and demographic patterns on disease and vulnerability. A13 Describe the Egyptian health systems and different population-based approaches of health care including disease	threatening illnesses affecting the body and its major organ systems, presenting throughout the age spectrum. A9. Recognize scientific basis of basic sciences practical skills and procedures relevant to future practice A10. Discuss the principles of management for common diseases and life-threatening conditions including pharmacological and non-pharmacological	health of individuals & populations at risk A3. Be able to appreciate that health promotion & disease prevention depend on team-working and collaboration with other professionals & agencies A4. Demonstrate knowledge of the appropriate use of drugs: <input type="checkbox"/> for all ages and with awareness of underlying chronic diseases <input type="checkbox"/> in prescribing, calculating dosages, & methods of delivery <input type="checkbox"/> their interactions & adverse effects	<b>PROFESSIONAL SKILLS:</b> Upon successful completion of an undergraduate medical education program, the graduates will be able to: C1. Perform complete clinical examination and precise investigations to reach the final diagnosis C2. Prescribe appropriate drugs taking in mind the benefits, side effects, interactions, safety and availability. C3. Carry out routine medical
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<p>S6. Elicit relevant information and perspectives from patients and their supporters, relatives, colleagues, and other professionals</p> <p>S7. Employ skills for both verbal and written communication that accurately convey relevant information, and explanations to patients and their relatives considering different types of human behavior under different somatic, psychological and social conditions including conduction of bad news</p> <p>S8. Communicate with colleagues, physicians, and</p>	<p>C7. Prescribe and administer drugs correctly and responsibly</p> <p>C8. Carry out practical procedures, First Aid and cardiopulmonary resuscitation (Ref. B) a</p> <p><b><u>D. Transferable Skills:-</u></b></p> <p>D1. Apply and adhere to the codes of professional behavior as set out in the</p> <p>D2. Edinburgh Ethical Code of Conduct for medical students (signed at matriculation by</p>	<p>burden, quality of life and well-being.</p> <p>A14 Recognize basics of ethics, medico legal aspects of health problems, malpractice and common medical errors.</p> <p>A15 Recognize basics of health and patient's safety and safety procedures during practical and clinical years.</p> <p>A16 Define principles of clinical audit.</p> <p><b><u>B. Practical and Clinical Skills</u></b></p> <p><b>By the end of the program, the graduate will be able to:</b></p> <p>B.1 Demonstrate basic sciences'</p>	<p>approach, interventions, basic pre- and post- operative care, pain relief and palliative care.</p> <p>A11. Realize the concept of uncertainty and complexity in medical practice</p> <p>A12. List the steps of evaluating medical information on basis of evidence (evidence based medicine).</p> <p>A13. Describe the Egyptian health systems and different population-based approaches of health care</p>	<p>A5. Be able to recognize opportunities for screening, disease prevention, health education, health promotion</p> <p>A6. Demonstrate knowledge of the range of interventions and indications, for surgery, including the principles of pre-, peri- and post- operative care</p> <p>A7. Demonstrate knowledge of the indications for the provision of range of interventions and therapies provided by other health care professionals</p>	<p>procedure and demonstrate the ability of using common medical tools required for diagnosis and management with highly qualified competency.</p> <p><b>D. GENERAL / TRANSFERABLE SKILLS</b></p> <p>Upon successful completion of an undergraduate medical education program, the graduates will be able to:</p> <p>D1. Communicate with professionals, patients, their families and the community through verbal, written and</p>
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	<p>other health professionals in a collaborative, responsive and responsible manner including writing clear and concise medical records. S9. Employ Information and communication technologies skills to acquire and apply information to manage self-directed learning and collaborative knowledge exchange with ability to facilitate the learning of others as part of professional responsibility.</p> <p><b>COMPETENCE</b></p> <p>C1. Perform basic medical skills, a</p>	<p>all students - attached), and in References A, B and C and in the GMC documents "Duties of a Doctor". D3. Reflective practice / appraisal. Ability to assess one's own work and the work of others; recognition of the limits of one's ability and to seek help appropriately; ability to give and receive constructive criticism; willingness to report 'significant events' and</p>	<p>practical skills relevant to the future practice and acquire practical, clinical skills and competencies. B.2 Take and record a structured patient-centered history. B.3 Perform full physical examination appropriate to age and gender in acute and chronic clinical conditions. B.4 Assess the mental state of the patient. B.5 Construct appropriate management strategies both diagnostic and therapeutic for patients with</p>	<p>including disease burden, quality of life and well-being. A14. Identify environmental, demographic, occupational major health risks, endemic diseases and prevalent chronic diseases. A15. Identify principles of health and health promotion A16. Recognize basics of health economics to ensure efficiency and effectiveness of healthcare system A17. Discuss prevention, early screening, early</p>		<p>A8. Demonstrate knowledge of the range of more common clinical investigations and procedures and their appropriate use. A9. In relation to acute &amp; chronic care, demonstrate knowledge of the management of: <input type="checkbox"/> conditions, not immediately life-threatening but requiring early treatment <input type="checkbox"/> appreciation of impact of acute illness on chronic disease and the transition between acute and chronic conditions <input type="checkbox"/> chronic diseases <input type="checkbox"/> rehabilitation in recovery from major illness</p>	<p>other non-verbal means. D2. Work individually or in a team and develop lifelong learning using up to date technology that help in understanding the diseases and its control and prevention. D3. Respect the different cultural beliefs, ethics, personalities, privacy and values for patients and community with a good behavior and follow the institutional and national roles of medical practice</p>
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<p>range of simple surgical and pharmacological therapies related to the different disciplines, including first aid and general management in both routine cases and emergencies. C2. Perform and document a complete and focused physical and mental examination C3. Develop and tailor the suitable plan of care for different patient problems in a shared view with patients, relatives and peers C4. Apply the principles of teamwork dynamics and leadership</p>	<p>medical errors and learn from these. D4. Motivation, innovation &amp; adaptability. Appreciation of personal motivating factors; ability to create change where necessary; resilience and skills to cope with change, uncertainty &amp; the unfamiliar in learning and clinical situations. D5. Commitment to professional standards of practice and reliability.</p>	<p>common acute and chronic diseases including medical, psychiatric and surgical conditions B.6 Compose an initial plan of management for stabilization of injured and critically-ill patients. B.7 Provide first aid measures for injured and critically-ill patients. B.8 Work out drug dosage based on patient's criteria and health condition. B.9 Write safe prescriptions of different types of drugs.</p>	<p>detection and control of community health problems; whether communicable or non-communicable A18. Recognize basics of ethics including research ethics, medico-legal aspects of health problems and malpractice A19. Describe infection control measures in health care settings and at community. 3 COPYRIGHTS© MEDC.MUST.E DU.EG A20. List the</p>	<p><input type="checkbox"/> impairment &amp; disability <input type="checkbox"/> pharmacological, physical and psychological interventions in pain control <input type="checkbox"/> care of the dying A10. Demonstrate knowledge of the circumstances in which the common laboratory-based investigations are indicated, and procedures required to obtain the necessary material for investigation A11. Demonstrate knowledge of the range of more common radiological investigations available</p>	
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	<p>processes to enable and support effective health professional collaboration. C5. Design, share and implement some steps in small-scale qualitative, practical or clinical scientific research project. C6. Appropriately comply with ethical, Professional and legal aspects in dealing with patients medical problems and Colleagues.</p>	<p>Honesty and integrity; putting care of the patient first; respect for the patient, patient's confidentiality and patient's perspective of illness; appreciation of the roles and responsibilities of other healthcare workers. D6. Management / organisation skills. Time management skills, setting priorities; ability to organize and keep track of information;</p>	<p>B.10 Conduct community diagnosis for priority setting of community health problems B.11 Perform venipuncture and collect blood samples. B.12 Insert a cannula into peripheral veins. B.13 Practice enteral, parenteral, inhalational and topical methods for drug administration B.14 Perform suturing of superficial wounds B.15 Demonstrate competency in cardiopulmonary resuscitation and basic life-support.</p>	<p>main principles of ensuring patient safety in different health sessions setting. A21. Discuss principles of healthy nutrition for health promotion and in case of disease. A22. Describe basic process of quality management <b>B- Intellectual Skills Domain of Outcomes:</b> <i>Upon program completion, the graduate should be able to:</i> B1. Apply the basic biomedical sciences in understanding disease</p>	<p>and their appropriate use in different circumstances A12. In relation to critical care, demonstrate knowledge of the management of: <input type="checkbox"/> life threatening conditions due to trauma or disease <input type="checkbox"/> intensive care, indications for intervention / monitoring <input type="checkbox"/> implications for the patient &amp; family A13. Demonstrate an understanding of the basic ethical principles of autonomy, beneficence, non-maleficence and justice, and their application A14. Demonstrate an</p>	
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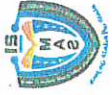
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	<p>ability to use clinical records and log patient information accurately;</p> <p>Organization skills to manage risk in the clinical setting.</p> <p>D7. Self-care. Ability to recognize and avoid particular risks to health for doctors; coping with pressure and stress; understanding the need to ensure that clinical practice is not adversely affected by ill-health in</p>	<p>B.16 Perform and interpret ECG.</p> <p>B.17 Perform and interpret basic respiratory function tests.</p> <p>B.18 Use a nebulizer for administration of inhalation therapy.</p> <p>B.19 Administer basic oxygen therapy.</p> <p>B.20 Insert a nasogastric tube.</p> <p>B.21 Perform bladder catheterization.</p> <p>B.22 Assist in procedure of normal labor.</p> <p>B.23 Perform and interpret basic bedside laboratory tests.</p>	<p>mechanism.</p> <p>B2. Integrate basic structural, biochemical and physiological facts with clinical data.</p> <p>B3. Correlate structural, functional and biochemical alterations of common pathological conditions and diseases with clinical data.</p> <p>B4. Relate genetic, social and demographic factors which influence disease occurrence to common health problems</p> <p>B5. Select appropriate and</p>	<p>understanding of legal responsibilities, with respect to:</p> <p><input type="checkbox"/> human rights</p> <p><input type="checkbox"/> drug prescribing</p> <p><input type="checkbox"/> physical and sexual abuse of children and adults</p> <p><input type="checkbox"/> death certification</p> <p><input type="checkbox"/> codes of conduct</p> <p><input type="checkbox"/> reporting of adverse medical care / standards involving other practitioners</p> <p>A15. Demonstrate an understanding of the practice of medicine in a diverse, multicultural society, by:</p> <p><input type="checkbox"/> understanding the roots of prejudice, and</p>	
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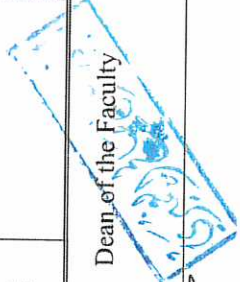
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	<p>oneself or a colleague; appreciation of the importance of interests and relationships out with medicine.</p> <p>D8. Career development. Ability to prepare curriculum vitae that accurately describe experiences and abilities; willingness to seek information about possible career paths and training; insights into abilities and lifestyle that should influence career choices.</p>	<p>B.24 Administer compulsory childhood vaccines</p> <p>B.25 Adopt suitable measures for safety and infection control.</p> <p><b>C. Professional Attitude and Behavioral Skills</b></p> <p><u>By the end of the program, the graduates will acquire the skills required to:</u></p> <p>C.1 Adopt an empathic and holistic approach to patients and their problems, taking into consideration beliefs values, goals and concerns</p> <p>C.2 Respect the patient's right to know and share in decision</p>	<p>cost effective investigations for common diseases, emergency and life threatening conditions.</p> <p>B6. Interpret the results of investigations for common diseases, emergency and life threatening conditions.</p> <p>B7. Integrate the data obtained by history taking, physical examination and investigations into a meaningful clinical diagnosis.</p> <p>B8. Generate and refine a prioritized differential</p>	<p>how prejudice and discrimination may be challenged in respect of age, gender, sexual orientation, ethnicity, disability, and socio-economic status</p> <p>A16. Be aware of the requirements to ensure patient safety</p> <p>Intellectual Skills:-</p> <p>B1. Demonstrate proficiency in clinical reasoning, through ability to:</p> <p><input type="checkbox"/> recognise, define and prioritise problems</p> <p><input type="checkbox"/> analyze, interpret and prioritise</p>	
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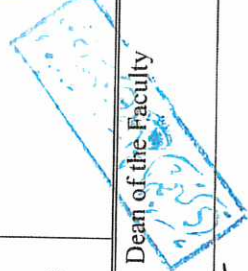
		<p>D9. Self-directed and life-long learning. Insight into own learning styles and the effect on strategies &amp; skills; capacity to question, direct and organize one's own learning with a view to this being life-long; effective use of learning opportunities; ability to use 'significant events' to direct further learning.</p> <p>D10. Collecting and processing information. Ability to synthesise and</p>	<p>making as well as dignity, privacy, information confidentiality and autonomy. C.3 Understand and respect the different cultural beliefs and values regardless of their disabilities in the community they serve. C.4 Recognize the important role played by other health care professions in patients' management, respecting their contributions in patient's management regardless of degree or occupation.</p>	<p>diagnosis for a set of findings B9. Construct appropriate management strategies for patients in different clinical situations B10. Design the initial course of management for stabilization of critically ill patients B11. Evaluate available information and relate it to evidence based data. B12. Evaluate new treatment strategies and choose evidence</p>	<p>information, recognising its limitations B2. Make diagnosis <input type="checkbox"/> Describe the differential diagnosis of core conditions B3. Demonstrate ability to think critically, by <input type="checkbox"/> adopting an inquisitive and questioning attitude and applying rational processes <input type="checkbox"/> recognising irrationality in oneself and others <input type="checkbox"/> recognising importance of own value judgements and those of patients B4. Demonstrate insight into research &amp; scientific</p>	
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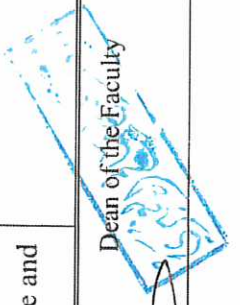
	<p>apply information from various sources; data collection skills, ability to manage information for different purposes and different</p> <p>D11. audiences. Competence in library, internet, general computing skills. Ability to perform literature searches</p> <p>Writing skills; oral presentation skills; teaching skills.</p> <p>D12. Team-working skills. Ability to work alongside others;</p>	<p>C.5 Apply the national code of ethics issued by the Egyptian Medical Syndicate.</p> <p>C.6. Respect and follow the institutional code of conduct.</p> <p>C.7 Counsel patients suffering from different conditions as well as their families.</p> <p>C.8 Recognize one's own limitations of knowledge and skills referring patients to appropriate health facility at the appropriate stage.</p> <p>C.9 Ensure confidentiality and privacy of patients information</p>	<p>based information to use in patients' management.</p> <p>B13. Determine the different strategies for risk management of disease and injury.</p> <p>B14. Design an awareness program for health promotion.</p> <p>B15. Design scientific research through the formulation of research questions pertinent to medicine and the collection, analysis and interpretation of medical data.</p> <p>B16. Analyse and</p>	<p>method, through the:</p> <p><input type="checkbox"/> appreciation of quantitative and qualitative methodology</p> <p><input type="checkbox"/> choosing and applying appropriate methodologies and statistical tests with some understanding of the underlying principles</p> <p><input type="checkbox"/> recognising the relationship between evidence based medicine, audit and the observed variation in clinical practice</p> <p>B5. Exhibit creativity / resourcefulness, by: demonstrating self-reliance, initiative and pragmatism</p>	
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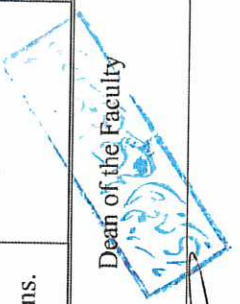
	<p>ability to be supportive, sympathetic and encouraging to peers / colleagues; when appropriate, direct, set goals and motivate others; ability to delegate effectively; putting ideas into action and completing tasks well and on time; ability to evaluate the work of the team; meeting skills e.g. the ability to be an effective 'chair' or scribe for a meeting.</p>	<p>C.10 Treat all patients equally, and avoid stigmatizing any category regardless of beliefs, culture, and behaviors. C.11 Work cooperatively demonstrating respect with other health care professions for effective patient management. C.12 Be willing to share in all types of inter- professional activities including collaborative and shared learning. C.13 Ensure the cost effectiveness of health care management. C.14 Notify about or report any</p>	<p>interpret numerical data using basic statistical methods. <b>C- Practical and Clinical Skills</b> <b>Domain of Outcomes:</b> <i>Upon program completion, the graduate should be able to:</i> C1. Demonstrate basic biomedical practical skills relevant to the future practice according to NARS C2. Apply ethical rules, safety and infection control measures during learning in labs and clinical sessions.</p>	<p><input type="checkbox"/> demonstrating preparedness to think outwith conventional boundaries when appropriate Practical Skills:- C1. Take a medical history, which: <input type="checkbox"/> is patient centred <input type="checkbox"/> is sensitive, structured &amp; thorough in approach <input type="checkbox"/> recognises and takes account of the age and state of the patient, and a range of contexts including multicultural factors <input type="checkbox"/> recognises the need for skilled communication C2. Undertake physical &amp; mental state</p>	
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	<p>physical or mental conditions related to himself, colleagues or any other person that might jeopardize patients' safety.</p> <p>D. Communication Skills:</p> <p><b><u>By the end of the program, the graduate will be able to:</u></b></p> <p>D.1 Communicate clearly, sensitively and effectively with patients and their relatives and colleagues from a variety of health and social care professions.</p> <p>D.2 Communicate effectively with individuals regardless of their social, cultural,</p>	<p>C3. Obtain a structured patient-centred history.</p> <p>C4. Assess the mental state of the patient.</p> <p>C5. Perform time bound full physical examination appropriate to age and gender based on the clinical presentation</p> <p>C6. Record the information obtained from history, physical examination and psychological assessment in the structured format (patient's sheet).</p> <p>4 COPYRIGHTS©</p>	<p>examination of patients, which is:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> general &amp; systems-based</li> <li><input type="checkbox"/> appropriate for age, gender, culture and state</li> <li><input type="checkbox"/> thorough, sensitive &amp; systematic</li> </ul> <p>C3. Integrate results of history, examination &amp; common investigative tests, so as to facilitate Diagnosis</p> <p>C4. Make diagnosis</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> By gathering and interpreting relevant clinical information</li> <li><input type="checkbox"/> By recognising the patterns of presentation of core conditions</li> </ul>
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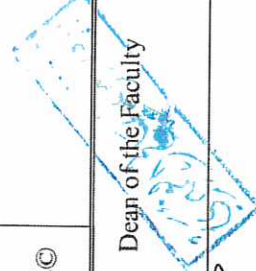
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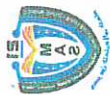
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		<p>ethnic backgrounds, or their disabilities.                  D.3 Cope with situations where communication is difficult including breaking bad news.                  D.4 Show compassion to patients and their relatives in situations of stress and grief.                  D.5 Honor and respect patients and their relatives, superiors, colleagues and any other member of the health profession.                  Dd.6 Use different communication approaches to bring about behavioral change.</p>	<p>MEDC.MUST.E                  DU.EG                  C7. Demonstrate major normal structures in X-rays,                  Computerised Tomography (CT) and Magnetic Resonance Imaging (MRI) scans and notice abnormal findings.                  C8. Provide first aid measures for injured and critically-ill patients.                  C9. Work out drug dosage based on patient's weight,</p>	<p>C5. Record findings, such that records:  <input type="checkbox"/> are contemporaneous, legible, concise, dated, and signed  <input type="checkbox"/> include all relevant communications with patients / relatives and colleagues                  C6. Measure &amp; record a range of common clinical parameters                  C7. Be able to perform a range of tasks commonly used in medical practice                  C8. Follow general principles of patient investigation by:  <input type="checkbox"/> making evidence-based choice of relevant</p>	
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		<p><b>E. Intellectual Skills</b> By the end of the program, the graduate will acquire the skills required to:</p> <p>E.1 Integrate basic anatomical, biochemical and physiological facts with clinical data.</p> <p>E.2 Integrate the results obtained from history, clinical examination and investigational data into meaningful diagnostic formulation.</p> <p>E.3 Combine clinical and investigational data with evidence based knowledge and skill of <b>deductive</b></p>	<p>age and health condition</p> <p>C10. Write safe prescriptions of different types of drugs and use evidence based medicine for drug interactions</p> <p>C11. Carry out <i>specified practical and clinical procedures according to NARS:</i></p> <p>C11i. Perform venepuncture and collect blood samples appropriately</p> <p>C11ii. Insert a canula in a peripheral vein</p>	<p>investigations, with awareness of limitations</p> <p><input type="checkbox"/> requesting relevant investigations according to national guidelines and local protocols</p> <p><input type="checkbox"/> obtaining informed consent</p> <p><input type="checkbox"/> preparing patients practically &amp; with adequate information</p> <p>C9. Be able to request, justify and interpret appropriate and relevant laboratory-based investigations according to national guidelines and local protocols</p> <p>C10. Be able to order, package and label</p>	
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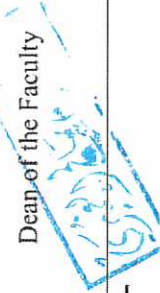
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		<p>reasoning for clinical problem solving.                  E.4 Prioritize the medical problems and their differential diagnoses                  E.5 Design a management plan for common diseases and emergencies.                  E.6 Determine the different strategies for risk management of disease and injury.                  E.7 Design scientific research through the formulation of research questions pertinent to medicine and the collection, analysis</p>	<p>C11iii. Give IM, SC and IV injections                  C11iv. Suture superficial wounds                  C11v. Perform competently basic life support and cardiopulmonary resuscitation                  C11vi. Administer compulsory childhood vaccines                  C11vii. Perform &amp; interpret basic bedside laboratory tests                  C11viii. Perform and Interpret ECG</p>	<p>appropriate and relevant samples for laboratory based investigations                  C11. Be able to write a prescription for a range of commonly prescribed drugs                  C12. Be able to interpret a range of common x-rays.                  C13. Follow general principles of patient management recognising:  <input type="checkbox"/> The patient's safety at all times  <input type="checkbox"/> effect on patient &amp; concordance  <input type="checkbox"/> age and social circumstances when determining treatment</p>	
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		<p>and interpretation of medical data. E.8 Recognize and cope with uncertainty that is unavoidable in the practice of medicine by accepting and reacting to uncertain situations through proper counseling, consultation and referral.</p> <p><b>F. General and Transferable Skills</b> By the end of the program, the graduate will acquire the skills required to: F1 Adopt the principles of lifelong learning needs of the</p>	<p>C11ix. Administer basic oxygen therapy C11x. Use a nebulizer for administration of inhalation therapy C11xi. Insert a nasogastric tube C11xii. Perform bladder catheterization for both genders C11xiii. Conduct normal labor C11xiv. Deliver various contraceptive methods when needed C11xv. Adopt specific suitable</p>	<p><input type="checkbox"/> requirements for informed consent <input type="checkbox"/> need for team work <input type="checkbox"/> need for appropriate referrals to right professionals C14. Formulate management plans: <input type="checkbox"/> which focus on patient's needs &amp; involve patient in decision making <input type="checkbox"/> prioritising treatments / interventions <input type="checkbox"/> involving other health care professionals as appropriate <input type="checkbox"/> recognising one's own limitations C15. In relation to critical care, be able to demonstrate</p>			
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		<p>medical profession (continuous professional development; CPD).                  F2 Use computers efficiently in reaching biomedical information to remain current with advances in knowledge and practice.                  F.3 Present information clearly in written, electronic and verbal forms                  F.4 Communicate ideas and arguments effectively                  F.5 Work effectively within a multidisciplinary team</p>	<p>infection prevention measures  <b>D. General, Transferrable and Professional Domain of Outcomes:</b>                  Upon program completion, the graduate should be able to:                  D1. Respect patients' rights, privacy and confidentiality                  D2. Adopt an understanding of holistic approach to patients' problems                  D3. Deal with uncertainty</p>	<p><input type="checkbox"/> effective working in the emergency care team                  C16. In relation to acute and chronic care be able to formulate a management plan for  <input type="checkbox"/> chronic diseases  <input type="checkbox"/> the dying patient  <input type="checkbox"/> pain control                  C17. Be able to accurately write up a drug cardex for a newly admitted patient according to information supplied in the patients notes                  C18. Be able to calculate drug dosages for individual patients and work out loading and delivery</p>	
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	<p>F6 Manage time and resources effectively and set priorities</p> <p>F.7 Apply simple statistical methods</p> <p>F8. Apply English language as needed for appropriate learning and communication in relation to medicine</p> <p>F10 Manage time and resources effectively and set priorities.</p> <p>F.11 Work effectively within healthcare team and as an effective team leader.</p> <p>F12 Solve problems related to patients, work</p>	<p>using updated medical information for proper counselling and referral</p> <p>D4. Recognize the need and adequately refer cases to proper level of care when needed</p> <p>D5. Counsel patients suffering from complicated or terminal illness and their families</p> <p>D6. Take the proper action to safeguard welfare of vulnerable individuals</p>	<p>rates</p> <p>C19. Be able to request and justify appropriate and relevant radiological investigations according to national guidelines and local protocols</p> <p>C20. Demonstrate ability to prioritise the patient's care, including the management of tasks, events and time</p> <p>C21. Follow general principles of good communication, including:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> active listening</li> <li><input type="checkbox"/> gathering and giving information with good record</li> </ul>
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		<p>management and among colleagues.</p> <p>F13 Cope with a changing work environment.</p> <p>F14 Apply safety and infection control measures during practice.</p> <p>F15 Evaluate their work and that of others using constructive feedback.</p>	<p>suffering from abuse or neglect.2.8</p> <p>D7. Analyse ethical issues appropriately and take decisions according to the national laws and code of ethics.</p> <p>D8. Predict situations where ethical dilemmas and conflict of interests are likely to occur and be able to deal with them either individually (on their own) or with</p>	<p>keeping and correspondence skills</p> <p><input type="checkbox"/>mediating, negotiating &amp; dealing with complaints</p> <p><input type="checkbox"/>making oral presentations &amp; writing reports</p> <p><input type="checkbox"/>safeguarding confidentiality</p> <p><input type="checkbox"/>recognizing own limitations, extent of personal knowledge</p> <p>C22. In communicating with patients / relatives, be able to:</p> <p><input type="checkbox"/>demonstrate empathy</p> <p><input type="checkbox"/>elicit patient's ideas, concerns &amp; expectations</p> <p><input type="checkbox"/>achieve a shared understanding</p>	
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			<p>consultations with seniors. D9. Ensure the cost effectiveness of management. D10. Cooperate with other members of the health team to provide effective patient management 5 COPYRIGHTS© MEDC.MUST.E DU.EG D11. Communicate the medical information in written, oral or electronic forms. D12. Communicate</p>		<p><input type="checkbox"/> build and maintain a relationship <input type="checkbox"/> answer questions &amp; give explanations <input type="checkbox"/> deal with challenging consultations <input type="checkbox"/> make requests <input type="checkbox"/> obtain informed consent for appropriate procedures C23. In communicating with other health professionals, be able to: <input type="checkbox"/> transfer information (oral written &amp; electronic) <input type="checkbox"/> write a good referral letter <input type="checkbox"/> write good discharge summaries <input type="checkbox"/> refer patients appropriately C24. In communicating</p>
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			<p>clearly, sensitively and effectively with patients and their relatives, regardless of their social, cultural or ethnic background</p> <p>D13. Communicate in difficult situations including breaking bad news</p> <p>D14. Communicate with colleagues from a variety of health and social care professions and stakeholders</p>	<p>with other agencies (e.g. police, coroner), and the media/prcss:</p> <p><input type="checkbox"/> follow proper procedures without breaking rules of confidentiality</p> <p><input type="checkbox"/> act as a patient's advocate when appropriate</p> <p><input type="checkbox"/> write a death certificate</p> <p><input type="checkbox"/> complete cremation forms</p> <p>C25. Be able to communicate as a teacher and mentor</p> <p>C26. In relation to patient records:</p> <p><input type="checkbox"/> maintain high quality of recording (whether by writing or on computer)</p>	
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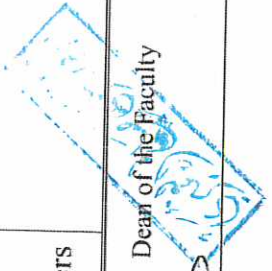
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				<p>D15. Obtain informed consent from patients whenever needed</p> <p>D16. Take responsibility for personal and professional learning and development while adopting the concept of lifelong learning and information mastery.</p> <p>D17. Develop effective managerial skills including self-management.</p> <p>D18. Evaluate</p>	<p><input type="checkbox"/> write up patient notes in a legible and structured format</p> <p><input type="checkbox"/> demonstrate an awareness of the different types of records and how they are stored and retrieved</p> <p><input type="checkbox"/> maintain confidentiality</p> <p><input type="checkbox"/> demonstrate awareness of legislation governing access to medical records and data</p> <p>C27. In relation to health promotion be able to</p> <p><input type="checkbox"/> assess the health, health care and health promotion needs of individual patients</p> <p>C28. Be able to take appropriate action in</p>
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				<p>his/her work and that of others using constructive feedback          D19. Reflect on and assess his/her performance using performance indicators          D20. Manage time, prioritize workloads and recognize and manage personal</p>		<p>communicable disease control according to national guidelines and local protocols          C29. Implement evidence-based risk reduction strategies for individual patients  <input type="checkbox"/> Be able to recommend appropriate vaccination regimens for individuals          C30. Plan and implement, where appropriate, health promotion taking into account barriers to disease prevention and health promotion both in the</p>	
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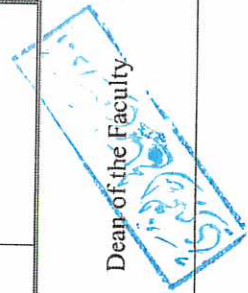
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						individual & population C31. Recognise and contribute to meeting patients' needs within the health care system C32. Behave in such a way as to maintain patient safety at all times C33. Demonstrate acceptance of the professional responsibilities and role of the doctor, through: <input type="checkbox"/> commitment to the 'Duties of a Doctor' as defined by the General Medical Council and local codes including clinical governance <input type="checkbox"/> participation in clinical governance and
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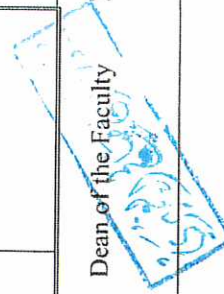
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								<input type="checkbox"/> appreciating the role of the doctor as manager both in one's own practice and in the health care system <input type="checkbox"/> appreciating the medical profession as a voice in society and an agent of change C34. Demonstrate the acquisition of appropriate professional attitudes, by <input type="checkbox"/> accepting the duties of a doctor and codes of professional practice <input type="checkbox"/> maintaining confidentiality, truthfulness and integrity
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							<input type="checkbox"/> behaving at all times in an ethical manner <input type="checkbox"/> establishing trust and showing respect in the doctor / patient relationship <input type="checkbox"/> demonstrating an empathic and holistic approach to patients <input type="checkbox"/> valuing and preserving patient autonomy and involving patients in decisions affecting them <input type="checkbox"/> respecting colleagues, other health care professionals and regulatory bodies <input type="checkbox"/> dealing effectively with complaints <input type="checkbox"/> appreciating financial and other constraints affecting the
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						hazards of self-medication and substance abuse making use of available help and advice in stressful circumstances D7. Identify the value of career planning and be able to set realistic short and long-term goals D8. Accept a commitment to medicine through adherence to the codes of conduct and behaviour expected of a member of the profession D9. Recognise key personal motivating factors and their importance in sustaining a high level of commitment
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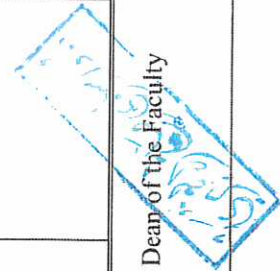
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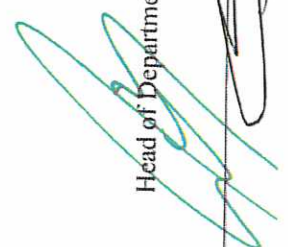




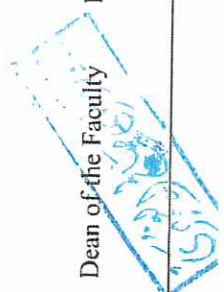
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						intellectual strategies when dealing with uncertainty making decisions in partnership with colleagues and patients, recognizing one's own level of responsibility and capability.	
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Annex- 6, Department Name:

No.	Department Name	No.	Department Name
1	Anatomy and Embryology	12	Neurosurgery
2	Histology and cell biology	13	Psychiatry
3	Medical Biochemistry	14	Dermatology
4	Physiology	15	Diagnostic Radiology
5	Pharmacology	16	Pediatrics
6	Pathology	17	Gynecology & Obstetrics
7	Community Medicine	18	General Surgery
8	Forensic Medicine and Clinical Toxicology	19	Orthopedics Surgery
9	Ophthalmology	20	Medical Microbiology and immunology
10	Ear, Nose and Throat	21	Medical Parasitology
11	Internal Medicine	22	Anesthesia & Intensive Care

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**Annex-7, Alignment of Program Intended Learning Outcomes (PILOs) to Program Objectives (POs)**

Program PILOs	Program Objectives							
	PObj1	PObj2	PObj3	PObj4	PObj5	PObj6	PObj7	FObj8
A1	√	√			√	√		√
A2	√	√	√			√		
A3	√	√	√	√		√		
A4							√	
B1	√	√		√				
B2	√	√	√	√				
B3		√	√			√		
C1		√	√					√
C2	√	√	√					√
C3			√	√				√
D1					√		√	√
D2					√		√	√
D3					√		√	√

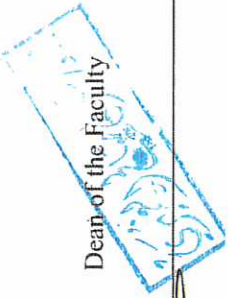
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**Annex-8, Mapping of Program Objectives to the Faculty Mission**

Program Objectives	Faculty Mission
PObj1	✓
PObj2	✓
PObj3	✓
PObj4	✓
PObj5	✓
PObj6	✓
PObj7	✓
PObj8	✓

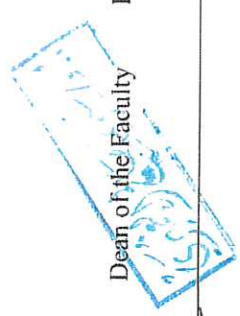
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*Amr Alkhatib*

Republic of Yemen

Ministry of Higher Education and scientific Research

21 SEPTEMBER University of Medical and Applied Sciences



الجمهورية اليمنية

وزارة التعليم العالي والبحث العلمي

جامعة 21 سبتمبر للعلوم الطبية والتطبيقية

Annex-9, Survey of PILOs for Similar Accredited Programs at National and International Universities

Program PILOs	Similar Accredited Programs					
	King Faisal University	University of sciences and technology	Cairo University	Misr University for Science and Technology	Tehran University	Newcastel University
A1	✓	✓	✓	✓		✓
A2	✓	✓	✓	✓	✓	✓
A3	✓	✓	✓	✓	✓	✓
A4	✓		✓	✓	✓	✓
B1	✓	✓	✓	✓		✓
B2	✓	✓	✓	✓	✓	
B3	✓	✓	✓			
C1	✓	✓	✓	✓	✓	✓
C2	✓	✓	✓	✓	✓	✓
C3	✓	✓	✓	✓	✓	✓
D1	✓	✓			✓	
D2	✓	✓	✓	✓	✓	✓
D3	✓	✓	✓		✓	✓

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### Annex- 10, Alignment of Program PILOs with Council of Accreditation and NARS Standards

Accreditation Body: National Academic Reference Standards (NARS), Yemen, 2022.

Program PILOs	NARS (Yemen), ILOs for Undergraduate Medical Programs												
	Knowledge and Understanding				Intellectual Skills			Professional and Practical Skills			Transferable Skills		
	A1	A2	A3	A4	B1	B2	B3	C1	C2	C3	D1	D2	D3
A1	•												
A2		•											
A3			•										
A4				•									
B1					•								
B2						•							
B3							•						
C1								•					
C2									•				
C3										•			
D1											•		
D2												•	
D3													•

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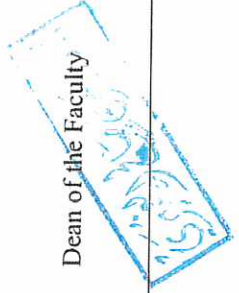
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## 1- National Academic Reference Standards For Medicine & surgery Programs, Yemen, 2022. I. GRADUATE ATTRIBUTES

*Upon successful completion of an undergraduate medical education program, the graduates will be able to:*

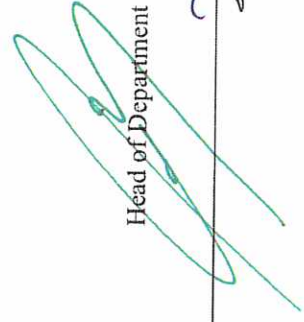
1. Healthcare provider: providing patient-centered high-quality care efficiently, effectively and safely within their defined scope and limits of their expertise and within the context of healthcare system.
2. Professional: Adhering to ethical, professional, and legal standards, demonstrating a commitment to the patients, profession and society, and to their wellbeing and lifelong personal and professional development.
3. Scholar: Using the medical knowledge and health research to meet the needs of patients, healthcare system, and society.
4. Health Advocate: contributing to prevent illness and promote the health and well-being of their patients, and society.
5. Communicator & Collaborator: Communicating effectively with patients and their families, healthcare team and the society, and collaborating inter professionally, working as both a team member and a leader.

## II. LEARNING OUTCOMES

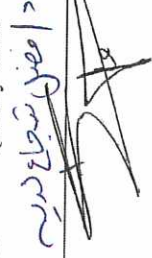
### A. KNOWLEDGE AND UNDERSTANDING

*Upon successful completion of an undergraduate medical education program, the graduates will be able to:*

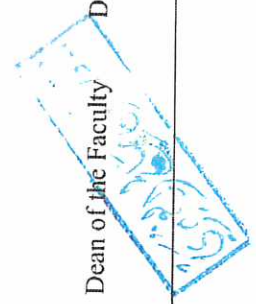
- A1. Describe the general and basic sciences related to human body structure and functions with emphasis on normal and abnormal conditions.
- A2. Identify the progress of human body through all stages of development, alteration of structure and function during these stages and indication for surgical or non-surgical intervention and the role of treatment in healing or curing the diseases.
- A3. Explain the pathological and pathogenesis changes in various diseases, and their etiological triggers including genetic, developmental, infectious, metabolic, endocrinal, autoimmune, neoplastic, traumatic, degenerative and occupational factors.
- A4. Recognize the local and international guidelines, ethics, disease management, prevention and other risk factors that affect community health.

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**B. COGNITIVE/INTELLECTUAL SKILLS**

*Upon successful completion of an undergraduate medical education program, the graduates will be able to:*

- B1. Compare between normal and abnormal conditions and predict the appropriate treatment or intervention.
- B2. Analyze and interpret the finding from history, clinical examination and investigations to propose a diagnosis and develop a shared management plan for common acute, chronic and urgent physical and mental health presentations.
- B3. Explore to medical practice the principles, method and knowledge of population health and the improvement of health and healthcare

**C. PRACTICAL AND PROFESSIONAL SKILLS:**

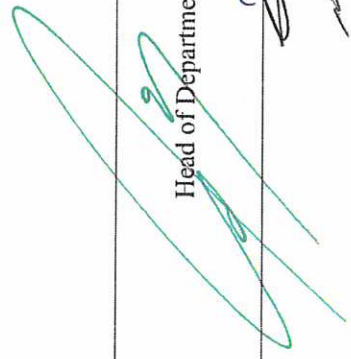
*Upon successful completion of an undergraduate medical education program, the graduates will be able to:*

- C1. Perform complete clinical examination and precise investigations to reach the final diagnosis
- C2. Prescribe appropriate drugs taking in mind the benefits, side effects, interactions, safety and availability.
- C3. Carry out routine medical procedure and demonstrate the ability of using common medical tools required for diagnosis and management with highly qualified competency.

**D. GENERAL / TRANSFERABLE SKILLS**

*Upon successful completion of an undergraduate medical education program, the graduates will be able to:*

- D1. Communicate with professionals, patients, their families and the community through verbal, written and other non-verbal means.
- D2. Work individually or in a team and develop lifelong learning using up to date technology that help in understanding the diseases and its control and prevention.
- D3. Respect the different cultural beliefs, ethics, personalities, privacy and values for patients and community with a good behavior and follow the institutional and national roles of medical practice

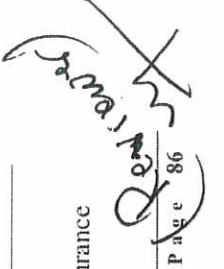


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**Annex- 11, Survey of Credit Hours of Similar Programs**

Benchmarking	21 SEPTEMBER. University		King Faisal University	University of sciences and technology	Cairo University	Misr University for Science and Technology	Tehran University	Newcasfel University
	Credit	Percentage	Credit	Percentage	Credit	Credit	Credit	Credit
University Requirements	17	7.1%	8	25	25	10	---	---
University Electives	---	---	4.4%	8.9%	---	4.5%	---	---
Faculty Requirements	9	3.7%	---	7	---	11	---	---
Faculty Electives	---	---	---	---	---	5%	---	---
Department Requirements	---	---	2	2.5%	---	5	---	---
Major Requirements	118	48.8%	1.1%	---	---	2.3%	---	---
Major Electives	---	---	---	---	---	---	---	---
Practical Courses	---	---	---	---	---	---	---	---
Training Courses	94	38.8%	164	249	---	194	---	---
Project Courses	4	1.6%	91.1%	88.6%	---	88.2%	---	---
Total Credit Hours	242		180	281	254	220	220	150

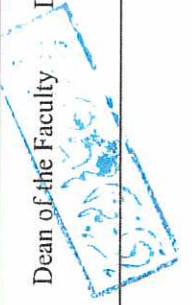
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Annex- 12, Survey of Number of Courses and Credit Hours of Similar Programs

University	21 SEPTEMBER University		King Faisal University		University of sciences and technology		Cairo University		Misr University for Science and Technology		Tehran University		Newcastle University		Average	
	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses
Total Courses and Cr. Hrs.	17	8	8	4	16	8	---	---	10	3	---	---	---	---	---	---
University Requirements	---	---	---	---	9	3	---	---	---	---	---	---	---	---	---	---
Faculty Requirements	9	4	7	3	7	3	---	---	5	6	---	---	---	---	---	---
Department Requirements	---	---	2	2	---	---	---	---	---	---	---	---	---	---	---	---
Major Requirements	118	26	164	38	249	38	---	---	194	42	---	---	150	35	---	---
	---	---	6	6	---	---	---	---	---	---	---	---	---	---	---	---
	4	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	94	17	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total</b>	<b>242</b>	<b>57</b>	<b>180</b>	<b>50</b>	<b>281</b>	<b>52</b>	<b>254</b>	<b>53</b>	<b>220</b>	<b>54</b>	<b>220</b>	<b>84</b>	<b>150</b>	<b>35</b>	<b>223/55</b>	

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**Annex- 13, Themes of Courses of Study and their Weightage**

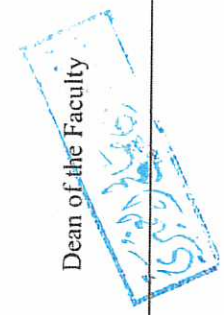
#	Themes	No. of Courses	Credit Hours	Percentage of Cr. Hrs.
1	University Requirements	8	17	7.1%
2	Faculty Requirements	4	9	3.8%
3	Program Compulsory Courses	27	118	48.8%
4	Program Elective Courses	0	0	0
5	Graduation Project Courses	1	4	1.6%
6	Field Training	17	94	38.8%
	<b>Program Total</b>	<b>57</b>	<b>242</b>	<b>100%</b>

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### Annex14 -, Coding System

The course code consists of three character + three digits

**Abbreviation of character code :**

- A21U
- A21F
- A21P

**The three digits:**

- First digit for Level
- Second digit for Semester; and
- Third digit for Course No.

Example:

Islamic Culture (A21U111)	Level	Semester	Course No.
University Requirement	1	1	1
A A21U			
Medical Terminology(A21F123)	Level	Semester	Course No.
Faculty Requirement	1	2	3
A21F			
Musculoskeletal System(A21P216)	Level	Semester	Course No.
System Courses	2	1	6
A21P			
Internal Medicine II A21P421	Level	Semester	Course No.
Major Requirement	4	2	1
A21P			

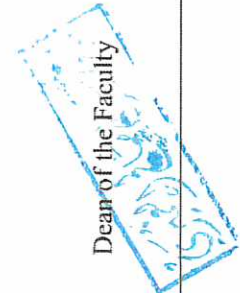
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**Annex15 -, Survey of Course Names per Academic Semesters of Similar Programs**

University	21 SEPTEMBER. University	King Faisal University	University of Sciences and Technology	Cairo University	Misr University for Science and Technology	Newcastle University	Tehran University of Medical Sciences
No of Courses	56	50	52	53	54	35	84
Total Cr. Hrs.	242	180	281	254	220	150	220
Total Years	5 Years	5 Years	6 Years	5 Years	5 Years	5 Years	5.5 Years
Level 1							
Semester	No	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name
1	1	Islamic culture	Islamic Culture	Normal structure of the human body	Fundamentals of human body I (development, normal structure and function and homeostasis)	Molecules to Community	Phase I (2.5 years)
		National culture	English Language (1)	Introduction to biomedical sciences	Musculoskeletal and Integumentary systems I	Nutrition, Metabolism & Endocrinology I	Tissue, Development & Function
		English Language I	Introduction to community medicine & environment	Principles of disease mechanism & drug therapy	Fundamentals of molecular biochemistry and genetics	Cardiovascular, Respiratory and Renal Medicine I	Cell and Molecules

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University	21 SEPTEMBER. University	King Faisal University	University of Sciences and Technology	Cairo University	Misr University for Science and Technology	Newcastle University	Tehran University of Medical Sciences	
2	4	Arabic Language 1	Professional Development I	Psycho-social sciences		Life Cycle 1	Medical Physics	
	5	Computer Skills		Communications Skills	Fundamentals of Human psychology	Personal and Professional Development 1	Principles of Health Services	
	6	Primary Health Care (CM1)		Introduction to cytology & Histology	Biostatistics	Medicine in Community 1	General English Language	
	7	Communication Skills		Introduction to Biochemistry			Cardiovascular System	
	8	Introduction to Cell Biology and Histology		Arabic Language			Respiratory System	
	9	Medical Ethics					Anatomy of limbs	
	10						Medical Genetic	
	1	Arabic Language 2	Block 1.3 Circulation and Hemostasis	English Language (2)	Neuroscience 1	Fundamentals of human body II (altered structure and function, infection, control and vectors of disease transmission)	Clinical Sciences and Investigative Medicine 1	Biochemistry
	2	2English Language	Block 1.4 Mind and Motion	Skills of Holy Quran Recitation & Tajweed	Musculoskeletal & Integumentary systems 1	Musculoskeletal and Integumentary systems II	Nutrition, Metabolism & Endocrinology 2	Psychology
	3	Medical Terminology	Islamic Course II	Critical Thinking	Hematopoietic system, Immunity & defense	Fundamentals of Medical Biochemistry	Cardiovascular, Respiratory and Renal Medicine 2	Family Health

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			Introduction to Anatomy	mechanisms Medical Professionalism 1	Medical ethics I (includes research ethics)	Life Cycle 2	Persian Language
4	Arab and Israeli conflict	Knowledge Progress I	Introduction to Embryology	Medical Terminology		personal & Professional Development 2	Medical Terminology I
5	Introduction to & Anatomy Embryology		Introduction to Physiology	Medical Ethics & Law 1		Medicine in Community 2	Gastrointestinal System
6	Introduction to Physiology		Arabic Language	Communication Skills 1			Endocrine Systems
7	Introduction to Pathology		Medical English	Early Patient Encounter 1			Urinary System
8	Biochemistry 1		Computer Skills				Reproductive System
9	Fundamental of Nursing						
Level 2							

Semester	No	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name
1	1	Introduction to Microbiology	Pharmacology	Cardiovascular System	Fundamentals of human body II (altered structure and function, infection, infection control and vectors of disease transmission)	Thought, Senses and Movement	Nutrition
			Block 2.1 Motion and Senses				

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2	2	Block 2.2 Emotion and Senses	Nutrition and Nutritional Biochemistry	Musculoskeletal & Integumentary systems 2	Haemopoietic system & Immunity	Personal & Professional Development 3	Principles of Epidemiology
3	3	Islamic Course III	Primary Health Care and Family Medicine(1)	Respiratory System	Cardiovascular system	Medicine in Community 3	Information Technology
4	4	Professional Development II	Introduction to Pathology	Medical Ethics & Law 2	Respiratory system	Student-Selected Component 1	Physical Training I
5	5	Nutrition	Biostatistics.	Communication Skills 2	Metabolism I		Devine Ethics
6	6	Musculo-skeletal System		Student Selected Component			Introduction to religion I
7	7			Early Patient Encounter 2			Immunology
8	8						Nervous System
2	1	Block 2.3 Dysregulation and Chronic Diseases I	Field Training (1)	Neuroscience 2	Digestive and hepatobiliary systems	Clinical Sciences and Investigative Medicine 2	Special Senses
2	2	Block 2.4 Dysregulation and Chronic Diseases II	Musculoskeletal system	Endocrine System	Endocrine system	Life Cycle 3	Anatomy of Head and Neck
3	3	Islamic Course IV	Research Methodology	Reproductive System	Metabolism II	Medicine in Community 4	Microbiology
4	4	Knowledge Progress II	Leadership skills development	Medical Professionalism 2	Research methodology	Personal & Professional Development 4	Virology

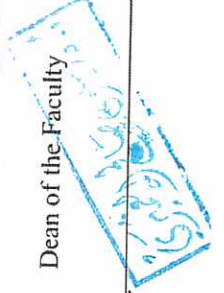
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University	21 SEPTEMBER. University	King Faisal University	University of Sciences and Technology	Cairo University	Misir University for Science and Technology	Newcastle University	Tehran University of Medical Sciences
5	Bio-statistics (CM II)			Computer			Medical Terminology II
6	Biochemistry 2			Student Selected Component			Physical Training II
7				Early Patient Encounter 3			
Level 3							
Semester	No	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name
1	1	Health Management (CM III)	Block 3.1 Oncology, Trauma Orthopedics	Cardio respiratory system	Digestive System & Liver	Urinary system	Introduction to religion II
	2	Gastro-intestinal system	Block 3.2 Acute Loss Function	Primary Health Care and Family Medicine(2)	Urogenital System	Reproductive system and breast	Pathology
	3	Genito-Urinary System	College Elective 1		Behavioral & Cognitive Sciences	Head and neck, Nervous system & special sense	Parasitology
	4	Research Methodology	Free Elective I		Investigative medicine	Personal & Professional Development	Mycology
	5		Professional Development III		Student Selected Component		Devine Texts
	6				Early Patient Encounter 4		Iran Revolution

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University	21 SEPTEMBER. University	King Faisal University	University of Sciences and Technology	Cairo University	Misr University for Science and Technology	Newcastle University	Tehran University of Medical Sciences
2	1	Endocrine System	Gastrointestinal System.	Eye Disorders	Community Medicine		Phase 2 (1 year)
	2	Central nervous System	Field Training( 2)	Ear, Nose & Throat	Ophthalmology		Advanced Pathology 1
	3	College Elective II	Primary Health care and Family medicine (3)	Clinical toxicology & Legal Medicine	Ear, Nose and Throat		Advanced Pathology 2
	4	Epidemiology (CM II)	Forensic Medicine	Medical Professionalism 3			Basic Clinical Skills
	5	Knowledge Progress III		Medical Ethics & Law 3			Clinical Immunology 1
	6			Student Selected Component			Clinical Immunology 2
	7						Fundamentals of Clinical Infectology
	8						Fundamentals of Clinical Neurology
	9						Fundamentals of Clinical Pediatrics
	10						Fundamentals of Clinical Psychiatry
Level 4							

Semester	No	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name
1	1	Obstetrics & Gynecology I	Block & Clerkship 4.1 Medicine I	Medical Ethics	Community Medicine	Medicine I (Gastrointestinal and Hepatobiliary system diseases,	Foundations of Clinical Practice
							Fundamentals of Clinical Surgery

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					Respiratory system diseases, Cardiovascular system diseases)		
2	Pediatrics I	Block & Clerkship 4.2 Surgery I	Central Nervous System	Nutrition	<b>Surgery I</b> (Gastrointestinal Hepatobiliary system, Cardiothoracic Surgery)	General Practice	Medical Rituals
3	Diagnostic Radiology	College Elective III	Hematology and Blood diseases	Psychiatry	<b>Anaesthesia &amp; critical care</b>	Chronic Illness, Disability and Rehabilitation	Pathophysiology of Cardiology
4	Forensic & Clinical Toxicology	College Elective IV	Primary Health Care and Family Medicine (4)	Family Health	<b>Clinical Nutrition &amp; Infectious diseases</b>	Reproductive and Children's Health	Pathophysiology of Endocrinology
5		Professional Development IV	Principle skills	Palliative Medicine & Oncology	<b>Blood diseases &amp; Medical oncology</b>	Mental Health	Pathophysiology of Gastroenterology
6				Medicine I	<b>Haematology &amp; clinical Pathology &amp; Laboratory medicine</b>	Infectious Diseases	Pathophysiology of Hematology

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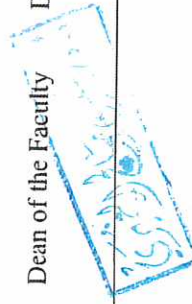
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7			Surgery 1				Pathophysiology of Nephrology
8			Medical Professionalism 4				Pathophysiology of Pulmonology
9			Student Selected Component				Pathophysiology of Rheumatology
10			Medical Research & EBM 1				Pharmacology 1
11							Pharmacology 2
12							Medical Statistics
<b>Phase 3 (2 years)</b>							
2	Internal Medicine I	Block & Clerkship 4.3 Life Cycle III	Urogenital System	Child's Health	<b>Medicine II</b> (Endocrinology and metabolic disorders, Neurology & Psychiatry, Geriatrics)		
1							
2	General Surgery I	Block & Clerkship 4.4 Movement	Endocrinology and Metabolism	Women's & Reproductive Health	<b>Surgery II</b> (Endocrine, Breast diseases, Abdominal Wall, Pediatric Surgery, Neurosurgery)		Anesthesiology Clerkship
3	Emergency medicine	Free Elective II	Field Training (3)		<b>Fundamental of Gynaecology and Obstetrics</b>		Clinical Epidemiology

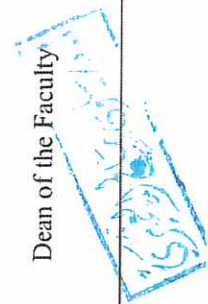
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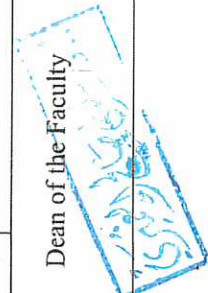


University	21 SEPTEMBER. University	King Faisal University	University of Sciences and Technology	Cairo University	Misr University for Science and Technology	Newcastle University	Tehran University of Medical Sciences
4	Anesthesia	College Elective V			Fundamental of Paediatrics and Neonatology		Dermatology
5		Knowledge Progress IV			Basics of Radiology, Imaging and Nuclear medicine		Elcctive
6							Emergency Medicine
7							
---							

Level 5		Course Name	Course Name	Course Name	Course Name	Course Name	Course Name
1	1	Otorhino-laryngology (ENT)	Medicine II	Medicine 2	Medicine III (Collagen, vascular disorders and immunology)	Clinical Sciences and Investigative Medicine 3 – IDHD	Forensic Medicine & Toxicology
2	2	Psychiatry	Surgery II	Surgery 2	Surgery III (Vascular, lymphatic, principles of transplantation)	Clinical Sciences and Investigative Medicine 3 – CPT	General Surgery
3	3	Ophthalmology	Community Health/PHC	Medical Professionalism 5	Genetics	Clinical Sciences and Investigative	ICT & Research Methodology

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University	21 SEPTEMBER. University	King Faisal University	University of Sciences and Technology	Cairo University	Misr University for Science and Technology	Newcastle University	Tehran University of Medical Sciences
		Emergency Medicine/GP	Ophthalmology	Medical Research & EBM 2		Medicine 3 – IPPD	
4	Dermatology	Knowledge Progress V	Ear Nose and Throat		<b>Orthopaedic &amp; Traumatology</b>	Student Selected Components 2	Infectology
5	Neurosurgery	Field Research	Forensic Medicine		<b>Physical medicine and Rehabilitation</b>	Student Electives	Internal Medicine
6	Orthopedics		Gynecology and Obstetrics (Block)		<b>Gynaecology and Obstetrics</b>		Medical Ethics
7					<b>Paediatrics and Neonatology</b>		Neurology
8							Neurosurgery
Semester	No	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name
2	1	Internal Medicine II	Ear Nose Throat		<b>Gynaecology and Obstetrics</b>		<b>Course Name</b>
	2	General Surgery II	Ophthalmology		<b>Paediatrics and Neonatology</b>		Obstetrics & Gynecology
	3	Obstetrics & gynecology II	Radiology		<b>Medicine IV (Nephrology)</b>		Ophthalmology
	4	Pediatrics II	Dermatology		<b>Surgery IV (Urology)</b>		Orthopedics
	5	Graduation Research (CM IV)	Anesthesia		<b>Family Medicine</b>		Otorhinolaryngology
							Pediatric Disease

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University	21 SEPTEMBER. University	King Faisal University	University of Sciences and Technology	Cairo University	Misr University for Science and Technology	Newcastle University	Tehran University of Medical Sciences
	6	Orthopedics			Dermatology, Venereology and Andrology		Pediatric Diseases 2
	7	Social Medicine					
	8	Psychiatry					
	9	Professional Development V					
<b>Level 6</b>							

Semester	No	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name
1	1		Medicine (Block)				Public Health
	2		Medicine (Bachelor)				Psychiatry
	3		General Surgery (Block)				Radioogy
	4		General Surgery (Bachelor)				Traditional Medicine
	5		Pediatrics (Bachelor)				Urology
	6		Gynecology and Obstetrics (Bachelor)				Thesis
	7		Community Medicine				
Semester	No	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name
	1						

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21 September University of Medical and Applied Sciences Bachelor of Medicine and Surgery (MBBS) Program Specifications



#	21 SEPTEMBER. University				King Faisal University				University of Sciences and Technology				Cairo University				Misr University for Science and Technology				Newcastle University				Tehran University of Medical Sciences					
	Course		Hours		Course		Hours		Course		Hours		Course		Hours		Course		Hours		Course		Hours		Course		Hours			
	C	H	L	T	C	H	L	T	P	C	H	L	T	P	C	H	L	T	P	C	H	L	T	P	C	H	L	T	P	
10	Arabic Language 2	2	0	0	0	0	0	0	0	Knowledge Progress II	3	3	1	1	2	2	2	2	2	Arabic Language 2	3	1	1	0	0	3	0	0	0	0
9	Medical Ethics	2	0	0	0	0	0	0	0	Professional Development I	5	3	1	1	1	1	1	1	1	Medical ethics I (includes research ethics)	1	1	1	0	0	1	0	0	0	0
8	Introduction to Cell Biology and Histology	3	2	0	0	0	0	0	0	Block 1.1 Fundamentals of Medicine	6	4	0	0	2	2	2	2	2	Introduction to cytology & Histology	3	3	3	3	3	3	3	3	3	3

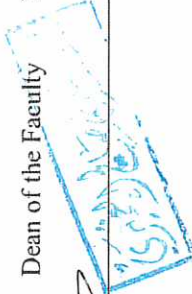
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21 September University of Medical and Applied Sciences Bachelor of Medicine and Surgery (MBBS) Program Specifications



#	21 SEPTEMBER University				King Faisal University				University of Sciences and Technology				Cairo University				Mist University for Science and Technology				Newcastle University				Tehran University of Medical Sciences									
	Course		Hours		Course		Hours		Course		Hours		Course		Hours		Course		Hours		Course		Hours		Course		Hours							
	C	H	L	T	C	H	L	T	C	H	L	T	C	H	L	T	C	H	L	T	C	H	L	T	C	H	L	T	P					
11	English Language Medical Terminology 2	4																																
		0																																
		0																																
		0																																
12	Arab and Israeli conflict	2																																
		0																																
		0																																
		0																																
13	Introduction to Anatomy & Embryology	5																																
		2																																
		0																																
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13	Introduction to Anatomy & Embryology	3																																
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21 September University of Medical and Applied Sciences Bachelor of Medicine and Surgery (MBBS) Program Specifications

#	21 SEPTEMBER University				King Faisal University			University of Sciences and Technology			Cairo University			Misr University for Science and Technology			Newcastle University			Tehran University of Medical Sciences					
	Course	C	H	L	C	H	L	C	H	L	Course	C	H	L	Course	C	H	L	Course	C	H	L	T	P	
19	Introduction to Microbiology	3	3	2	0	0	0	6	4	0	2	3	4	0	2	3	4	0	3	2	2	2	2	2	0
		3	3	2	0	0	0	6	4	0	2	3	4	0	2	3	4	0	3	2	2	2	2	2	0
18	Introduction to Pharmacology	3	3	2	0	0	0	6	4	0	2	3	4	0	2	3	4	0	3	2	2	2	2	2	0
		3	3	2	0	0	0	6	4	0	2	3	4	0	2	3	4	0	3	2	2	2	2	2	0
17	Fundamental of Nursing	3	3	2	0	0	0	6	4	0	2	3	4	0	2	3	4	0	3	2	2	2	2	2	0
		3	3	2	0	0	0	6	4	0	2	3	4	0	2	3	4	0	3	2	2	2	2	2	0

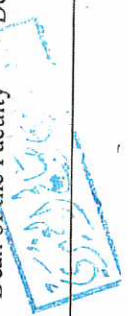
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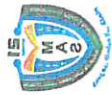












21 September University of Medical and Applied Sciences Bachelor of Medicine and Surgery (MBBS) Program Specifications

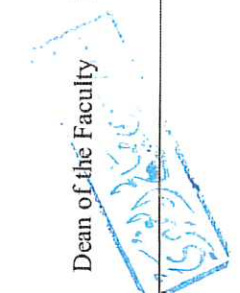
#	21 SEPTEMBER University				King Faisal University				University of Sciences and Technology				Cairo University				Misr University for Science and Technology				Newcastle University				Tehran University of Medical Sciences						
	Course		Course Hours		Course		Course Hours		Course		Course Hours		Course		Course Hours		Course		Course Hours		Course		Course Hours		Course		Course Hours				
	C	H	L	T	C	H	L	T	C	H	L	T	C	H	L	T	C	H	L	T	C	H	L	T	C	H	L	T	P		
30	Research Methodology	2	8	0	0	0	0	0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29	Genito-Urinary System	8	8	0	0	0	0	0	10	8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
		0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	Gastro-intestinal system	8	6	4	0	0	0	0	14	12	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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21 September University of Medical and Applied Sciences Bachelor of Medicine and Surgery (MBBS) Program Specifications



#	21 SEPTEMBER University				King Faisal University				University of Sciences and Technology				Cairo University				Misr University for Science and Technology				Newcastle University				Tehran University of Medical Sciences												
	Course	C	L	P	T	Course	H	L	T	P	Course	C	L	T	P	Course	H	L	T	P	Course	C	L	T	P	Course	H	L	T	P							
34	Internal Medicine 1	10	6	12	0	Block & Clerkship 4.1	6	4	0	2	Medicine (Block)	15	12	3	Medicine 1						Medicine 1	7	4	0	3	Clinical Sciences and Investigative Medicine 2						Pathophysiology of Endocrinology	2	2			
35	General Surgery 1	10	6	12	0	Block & Clerkship 4.2 Surgery 1	6	4	0	2	General Surgery	15	12	3	Surgery 1						Surgery 1	4	2	0	2	Student-Selected Component						Pathophysiology of Pulmonology	2	2			
36	Gynecology & Obstetrics I	8	4	12	0	Block 3.3 Life Cycle 1	6	3	1	2	Gynecology and Obstetrics (Block)	12	8	4	Women's & Reproductive Health						Obstetrics & Gynecology 1					Reproductive and Children's Health						Obstetrics & Gynecology	10	4			
37	Pediatrics 1	8	4	12	0	Block 3.4 Life cycle II	6	3	1	2	Pediatrics (block)	12	8	4	Child's Health						Pediatrics (1)					Reproductive and Children's Health						Fundamentals of Clinical Pediatrics	1	1			

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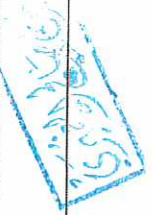
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21 September University of Medical and Applied Sciences Bachelor of Medicine and Surgery (MBBS) Program Specifications



#	21 SEPTEMBER University				King Fahad University				University of Sciences and Technology				Cairo University				Misr University for Science and Technology				Newcastle University				Tehran University of Medical Sciences			
	Course		Hours		Course		Hours		Course		Hours		Course		Hours		Course		Hours		Course		Hours		Course		Hours	
	C	H	L	T	C	H	L	T	C	H	L	T	C	H	L	T	C	H	L	T	C	H	L	T	C	H	L	T
40	Internal Medicine II		8	3	Medicine (Block)		15	3	Medicine 2		3	Medicine II		7	4	Clinical Sciences and Investigative and Medicine 3 - IPPD		3	Clinical Sciences and		3	Internal Medicine		12	Forensic Medicine & Toxicology		2.0	3
	Forensic Medicine & Clinical		3	3	Forensic Medicine		5	3	Clinical Toxicology & Level		2	Forensic Medicine & Toxicology		2.25	7	Clinical Sciences and		3	Clinical Sciences and		3	Forensic Medicine & Toxicology		2.0	Radiology		2.0	3
	Forensic Medicine		3	3	Forensic Medicine		5	3	Clinical Toxicology & Level		2	Forensic Medicine & Toxicology		2.25	7	Clinical Sciences and		3	Clinical Sciences and		3	Forensic Medicine & Toxicology		2.0	Radiology		2.0	3
	Diagnostic Radiology		3	3	Forensic Medicine		5	3	Clinical Toxicology & Level		2	Forensic Medicine & Toxicology		2.25	7	Clinical Sciences and		3	Clinical Sciences and		3	Forensic Medicine & Toxicology		2.0	Radiology		2.0	3
39	Forensic Medicine & Clinical		3	3	Forensic Medicine		5	3	Clinical Toxicology & Level		2	Forensic Medicine & Toxicology		2.25	7	Clinical Sciences and		3	Clinical Sciences and		3	Forensic Medicine & Toxicology		2.0	Radiology		2.0	3
	Forensic Medicine		3	3	Forensic Medicine		5	3	Clinical Toxicology & Level		2	Forensic Medicine & Toxicology		2.25	7	Clinical Sciences and		3	Clinical Sciences and		3	Forensic Medicine & Toxicology		2.0	Radiology		2.0	3
	Forensic Medicine		3	3	Forensic Medicine		5	3	Clinical Toxicology & Level		2	Forensic Medicine & Toxicology		2.25	7	Clinical Sciences and		3	Clinical Sciences and		3	Forensic Medicine & Toxicology		2.0	Radiology		2.0	3
	Forensic Medicine		3	3	Forensic Medicine		5	3	Clinical Toxicology & Level		2	Forensic Medicine & Toxicology		2.25	7	Clinical Sciences and		3	Clinical Sciences and		3	Forensic Medicine & Toxicology		2.0	Radiology		2.0	3
38	Diagnostic Radiology		3	3	Forensic Medicine		5	3	Clinical Toxicology & Level		2	Forensic Medicine & Toxicology		2.25	7	Clinical Sciences and		3	Clinical Sciences and		3	Forensic Medicine & Toxicology		2.0	Radiology		2.0	3
	Diagnostic Radiology		3	3	Forensic Medicine		5	3	Clinical Toxicology & Level		2	Forensic Medicine & Toxicology		2.25	7	Clinical Sciences and		3	Clinical Sciences and		3	Forensic Medicine & Toxicology		2.0	Radiology		2.0	3
	Diagnostic Radiology		3	3	Forensic Medicine		5	3	Clinical Toxicology & Level		2	Forensic Medicine & Toxicology		2.25	7	Clinical Sciences and		3	Clinical Sciences and		3	Forensic Medicine & Toxicology		2.0	Radiology		2.0	3
	Diagnostic Radiology		3	3	Forensic Medicine		5	3	Clinical Toxicology & Level		2	Forensic Medicine & Toxicology		2.25	7	Clinical Sciences and		3	Clinical Sciences and		3	Forensic Medicine & Toxicology		2.0	Radiology		2.0	3

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21 September University of Medical and Applied Sciences Bachelor of Medicine and Surgery (MBBS) Program Specifications

#	21 SEPTEMBER University				King Faisal University				University of Sciences and Technology				Cairo University				Misr University for Science and Technology				Newcastle University				Tehran University of Medical Sciences						
	Course		Hours		Course		Hours		Course		Hours		Course		Hours		Course		Hours		Course		Hours		Course		Hours				
	C	H	L	T	C	H	L	T	C	H	L	T	C	H	L	T	C	H	L	T	C	H	L	T	C	H	L	T			
44	Emergency medicine	3	3	2	3	0	2	2	4	1	2	2	0	Emergency/GP	4	1	2	2	0	Emergency medicine	3	3	2	3	0	Emergency Medicine	3	3	2	3	0
45	Anesthesia	3	3	2	3	0	0.5	1	1.5	1	0.5	1	0.5	Anesthesia	1.5	1	0.5	1	0	Anesthesia & critical care	3	2	0	1	Anesthesiology Clerkship	1.5	1.5	1	1	0	
46	Dermatology	3	3	2	3	0	0.5	1	1.5	5	3	2	0	Dermatology	5	3	2	0	Dermatology, Venerology and Andrology	2.25	3	2	0	3	Dermatology	3	3	2	3	0	
47	Otorhino-laryngology (ENT)	3	3	2	3	0	0.5	1	1.5	5	3	2	0	Ear Nose and Throat	5	3	2	0	Orthopaedic & Traumatology	5	2	0	3	Student-Selected Component 1	3.0	3.0	2	3.0	0		

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2017/09/17

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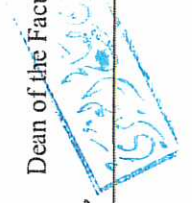
21 September University of Medical and Applied Sciences Bachelor of Medicine and Surgery (MBBS) Program Specifications



#	21 SEPTEMBER University				King Faisal University				University of Sciences and Technology				Cairo University				Misr University for Science and Technology				Newcastle University				Tehran University of Medical Sciences				
	Course		Hours		Course		Hours		Course		Hours		Course		Hours		Course		Hours		Course		Hours		Course		Hours		
	C	L	P	T	C	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	
48	Psychiatry	3	3	0	0	Psychiatry	1.5	1	0.5	1	1	3	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
49	Ophthalmology	3	3	0	0	Ophthalmology	1.5	1	0.5	5	3	2	5	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
50	Neurosurgery	3	3	0	0	Professional Development V	5	2	2	15	12	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

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*Review*  
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21 September University of Medical and Applied Sciences Bachelor of Medicine and Surgery (MBBS) Program Specifications



#	21 SEPTEMBER University			King Faisal University			University of Sciences and Technology			Cairo University			Misr University for Science and Technology			Newcastle University			Tehran University of Medical Sciences			
	Course	Course Hours		Course	Course Hours		Course	Course Hours		Course	Course Hours		Course	Course Hours		Course	Course Hours		Course	Course Hours		
	C	L	T	C	L	T	C	L	T	C	L	T	C	L	T	C	L	T	C	L	T	
74																						
75																			Neurology	4.5	1.5	3.0
76																			Elective	1.5	1.5	
																			Traditional Medicine	2	2	

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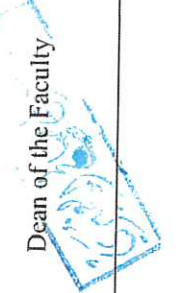






#	Level semester	Course Code	Courses	Credit hours	Lectures	Practical	Tutorial	Program ILOs													
								Knowledge and Understanding				Intellectual Skills			Professional and Practical Skills			Transferable Skills			
								A1	A2	A3	A4	B1	B2	B3	C1	C2	C3	D1	D2	D3	
46	5/1	A21P511	Otorhino-laryngology (ENT)	3	2	3	0	M	M				M	P				I	I	I	
47	5/1	A21P512	Psychiatry	3	2	3	0		A	A											
48	5/1	A21P513	Ophthalmology	3	2	3	0	M	M												
49	5/1	A21P514	Neurosurgery	3	2	3	0	A	A	A											
50	5/1	A21P516	Dermatology	3	2	3	0	M	M												
51	5/1	A21P517	Orthopedics	3	2	3	0	M	M												
52	5/2	A21P521	Internal Medicine II	8	4	12	0	A	A	A											
53	5/2	A21P522	General Surgery II	11	7	12	0	A	A	A											
54	5/2	A21P523	Obstetrics & gynecology II	6	4	6	0	A	A	A											
55	5/2	A21P524	Pediatrics II	6	4	6	0	A	A	A											
56	5/2	A21P525	Graduation Research (CM V)	4	0	0	12			A											
57	3/1	A21P315	Behavior sciences	2	2	0	0	I	I				M	P						A	M

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**Program Intended Learning Outcomes (PILOs): Medicine and Surgery Program at 21 September University**

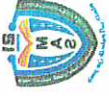
  
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*(Reviewed)*



**Program Intended Learning Outcomes (PILOs):**

**A. KNOWLEDGE AND UNDERSTANDING**

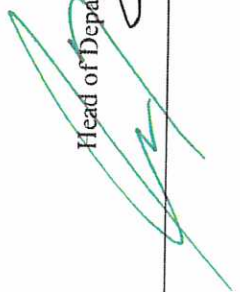
*Upon successful completion of an undergraduate Medicine and Surgery Program, the graduates will be able to:*

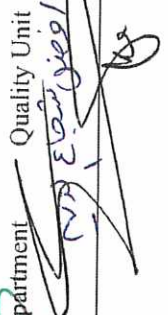
- A1. Describe the general and basic sciences related to human body structure and functions with emphasis on normal and abnormal conditions.
- A2. Identify the progress of human body through all stages of development, alteration of structure and function during these stages and indication for surgical or non-surgical intervention and the role of treatment in healing or curing the diseases.
- A3. Explain the pathological and pathogenesis changes in various diseases, and their etiological triggers including genetic, developmental, infectious, metabolic, endocrinal, autoimmune, neoplastic, traumatic, degenerative and occupational factors.
- A4. Recognize the local and international guidelines, ethics, disease management, prevention and other risk factors that affect community health.

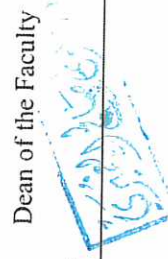
**B. COGNITIVE/INTELLECTUAL SKILLS**

*Upon successful completion of an undergraduate Medicine and Surgery Program, the graduates will be able to:*

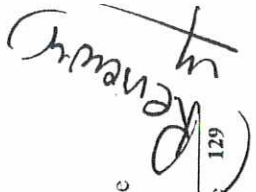
- B1. Compare between normal and abnormal conditions and predict the appropriate treatment or intervention.
- B2. Analyze and interpret the finding from history, clinical examination and investigations to propose a diagnosis and develop a shared management plan for common acute, chronic and urgent physical and mental health presentations.
- B3. Explore to medical practice the principles, method and knowledge of population health and the improvement of health and healthcare.

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**Program Intended Learning Outcomes (PILOs):**

**C. PRACTICAL AND PROFESSIONAL SKILLS:**

*Upon successful completion of an undergraduate Medicine and Surgery Program, the graduates will be able to:*

- C1. Perform complete clinical examination and precise investigations to reach the final diagnosis
- C2. Prescribe appropriate drugs taking in mind the benefits, side effects, interactions, safety and availability.
- C3. Carry out routine medical procedure and demonstrate the ability of using common medical tools required for diagnosis and management with highly qualified competency.

**D. GENERAL / TRANSFERABLE SKILLS**

*Upon successful completion of an undergraduate Medicine and Surgery Program, the graduates will be able to:*

- D1. Communicate with professionals, patients, their families and the community through verbal, written and other non-verbal means.
- D2. Work individually or in a team and develop lifelong learning using up to date technology that help in understanding the diseases and its control and prevention.
- D3. Respect the different cultural beliefs, ethics, personalities, privacy and values for patients and community with a good behavior and follow the institutional and national roles of medical practice

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*Handwritten signature: F. Al-Rawash*



**Annex- 18 CVs for the Preparation Committee**

**Preparation Committee:**

1. Assoc. Prof. Sadeq Abdulmoghni.
2. Assoc. Prof. Salwa Al-Khomiri.
3. Assoc. Prof. Mohammed Al-Eriani
4. Assoc. Prof. Walied Al-Thahibi.
5. Prof. Noman Fairooz. *(Reviewed)*

**Program Coordinator:**

1. Assoc. Prof. Salwa Al-Khomiri.
2. Assoc. Prof. Mohammed Al-Eriani.

**Review by:**

1. Prof. Mojahed Ali Measar.
2. Prof. Muta'a Abuarij.
3. Assoc. Prof. Muneer Alwesabi.
4. Dr. Fares Mahdi

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