

Republic of Yemen
21 SEPTEMBER UNIVERSITY
OF MEDICAL & APPLIED SCIENCES
Faculty of Medicine



Medicine

Program Specifications

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1. Program Identification and General Information:

1	Scientific name of the program:	Medicine
2	Total credit hours required to award the degree	234 without the internship
3	Number of years needed for completion of the program:	(6+1) 6 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:	Integrated Organ Based Learning (Block System)
8	Study Language of the Program:	English Language
9	Entry requirements:	Secondary School (Scientific Section)
10	Departments participating in the program:	Many departments participated (32 departments)
11	Starting year of the program:	2021/2022
12	Study methods in the program:	Full time
13	Location of Delivery:	University campus
14	The program resources:	Faculty Budget, and 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- Assoc.Prof. Dr Fuaad Al- khalli 2- Assoc.Prof. Dr. Lutfi AL-MaKtari. 3- Assoc.Prof. Dr. Sadik Abdul-Moughni 4- Assis.Prof.Dr. Walied Al-Thahibi 5- Assoc.Prof. Dr.Noman Fairoz
19	Program coordinator:	1- Assis. Prof. Dr.Salwa Al-Khomiri 2- Assis. Prof. Dr.Mohamed Al-Eriani 3- Mr. Abdulkarem Al-Akhali

2. Introduction:

The medicine program in the Faculty of Medicine at 21 September University has adopted the Integrated system as a teaching system through which it will achieve its goal of graduating medical cadres with academic qualifications and high skills to help society and alleviate its suffering.

The medicine program is offered for six academic years and one-year internship (6+1). The studying period are divided into two phases:

- The first phase is 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
- The second stage is the clinical science stage, which lasts over three years, during which the student's clinical skills are built.

Promising Jobs:

The graduated doctor will be able to work in different fields as:-

- 1- Public and private hospitals
- 2- Private clinics
- 3- Academic fields
- 4- Health organizations

3. University Vision, Mission, Values, Objectives, and Goals:

3.1-University vision:

A contemporary University with National Responsibility and a Faith Identity.

3.2-University mission:

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.

3.3-University Core values:

- 1- Leadership and influence
- 2- Excellence
- 3- Creativity
- 4- Teamwork

3.4-Strategic goals(Strategic):

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:

That the College 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. Work with a team

4.4-Faculty Objectives (Educational):

1. Preparing and rehabilitating distinguished medical cadres specialized with high efficiency in the medical field.
2. Providing students with basic knowledge of biomedical and clinical sciences in order to apply that knowledge to deal with complex clinical cases.
3. Providing students with basic knowledge to understand the impact of different stages of life, gender differences, different lifestyles, psychological, social and epidemiological genetic factors and their impact on the spread of diseases and ways to prevent them.
4. Enable students to know the basic concepts of preventive and rehabilitation applications

and diagnose acute medical problems so that they are able to apply the concepts in clinical practice.

5. Providing students with the ability to evaluate patients and manage their health problems by completing a comprehensive medical history.
6. Providing students with the scientific method in medical diagnosis, treatment and medical analysis so that they are able to use them in solving patients' problems.
7. Providing students with communication skills with patients and enabling them to acquire field examination skills and the proper use of diagnostic tools and means.
8. Practicing appropriate professional behavior with patients and colleagues, adhering to professional standards of ethical behavior and working in harmony with one-team promotions.
9. Activating the partnership with civil society institutions and relevant authorities locally, regionally and internationally to provide a stimulating and supportive educational environment in a manner that serves to enhance public health efforts and community safety.
10. 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.
11. Continuously developing and updating study plans and teaching methods by keeping pace with modern scientific developments.

5. Medicine 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 necessary to practice medicine in accordance with international standards, capable of continuous self-learning and prepared for professional development.
- 2- Develop and develop the educational, training, administrative and leadership skills of the teaching staff and administrators in the program.
- 3- Developing the human aspect and a sense of duty towards the patient and society among medical students.
- 4- Develop communication, leadership and scientific research skills among medical students
- 5- Enhancing the principles of professional, ethical and national responsibility among students.
- 6- Contribute to raising the reputation of medical education and health care locally and regionally.

- 7- Dissemination and promotion of the concepts of quality assurance among employees and students.
- 8- Developing the level of health awareness in the local community through health care and education programs.

[Medicine Program Specifications](#)

[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.](#)

6. Program Standards & Benchmarks:

6.1- Program Standards: -

A. Academic Standards:

- 1- National Accreditation Standards for Faculties of Medicine in Yemen 2019
- 2- National Academic Reference Standards (NARS) for Undergraduate Medical Education Programs(2018).
- 3- World Federation for Medical Education WFME Standers

B. Strategies :-

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

C. Rules and Regulation :-

- 1- Higher Education rules
- 2- Public Education Laws
- 3- 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- University of Taiz, Yemen.
- 2- University of Science and Technology (YUST)-Yemen
- 3- UNIVERSITY OF HADRAMOUT
- 4- Benha University – Egypt.
- 5- Jordan University of Science and Technology - (JUST)-Jordan
- 6- Tehran university-IRAN
- 7- Dublin University-UK

7. Graduate Attributes:

Upon successful completion of an undergraduate medicine program, graduates will be able to:

1. Demonstrate sound knowledge, skills, and attitudes required for patients' care.
2. Provide health care services at different levels, applying patient safety and infection control measures during practice
3. Work independently and/or in a team and collaborate effectively with other health care professionals
4. Recognize economic, social, psychological, environmental and cultural factors that interfere with health.
5. Behave ethically and professionally when dealing with patients, their families and other health care professionals
6. Communicate effectively with patients, their families and other health care professionals
1. Apply diagnostic, critical thinking, and problem-solving skills necessary for proper evaluation and management of common medical conditions and emergencies.
2. Recognize own professional limits and seek appropriate consultation from other health care professionals when indicated.
3. Establish the foundations of lifelong learning and research, with commitment to continuous self-improvement.

8. Program Intended Learning Outcomes (PILOs):

A. Knowledge and Understanding:

Upon successful completion of the undergraduate Medicine Program, the graduates will be able to:

- A1. Describe the normal structure and function of the human body at molecular, cellular and biochemical bases, in order to maintain body homeostasis.
- A2. Identify altered structure and function of humans in various diseases and conditions in relation to gender and age.
- A3. Describe the common diseases and life-threatening conditions as regards etiology, pathogenesis, clinical features, differential diagnosis and complications throughout the different age groups
- A4. Recognize patient's and human rights related to medical practices and medical ethics.
- A5. Describe drug actions: therapeutics and pharmacokinetics; side effects and interactions, including multiple treatments, long term conditions and non-prescribed medication; and effects on the population
- A6. Recognize the principles of epidemiology, prevention and control of communicable and non-communicable diseases.

B- COGNITIVE/INTELLECTUAL SKILLS:

Upon successful completion of an undergraduate medicine program, the graduates will be able to:

- B1. Integrate basic and applied Medical Sciences with clinical data.
- B2. Analyze the results obtained from history, clinical examination and investigational data to reach a final diagnosis and plan the management of patients.
- B3. Design a management plan for common diseases and emergencies
- B4. Combine clinical and investigational data with evidence based knowledge and skill of deductive reasoning for clinical problem solving.
- B5. Select appropriate investigations for medical conditions

C. Practical and Professional Skills:

Upon successful completion of the undergraduate medicine Program, the graduates will be able to:

- C1. Perform patient centered history taking, physical examination and investigations in all conditions.
- C2. Demonstrate respect to different cultures, religions and values, and manage all patients equally regardless of their backgrounds.
- C3. Choose the appropriate investigations relevant to differential diagnoses taking in consideration the availability and cost-effectiveness
- C4. Perform diagnostic and interventional procedures in a competent and safe way.
- C5. Prescribe and safely administer appropriate drugs taking in consideration side effects and interactions, including multiple treatments, long-term conditions.
- C6. Apply research, and statistical methods for identification, analyzing & resolution of health problems for further planning.
- C7. Discuss safety aspects with the patients and their families before any procedure or intervention and take informed consent.

D. General and Transferable Skills:

Upon successful completion of the undergraduate medicine Program, the graduates will be able to:

- D1. Communicate clearly and effectively with patients, their families, health care professionals and the community through verbal, written or digital methods.
- D2. Work effectively alone and within a multidisciplinary team
- D3. Evaluate numerical data by using simple statistical methods by effectively using computer skills.
- D4. Develop a lifelong interest to continue learning, improve skills, acquire, and apply up-to-date

knowledge and new skills.

D5. Conduct research projects in the field of medicine with sense of social responsibility. **Annex**

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

Annex- 6, Alignment of Program Intended Learning Outcomes (PILOs) to the Faculty Objective

Program PILOs	Faculty Objectives						
	FObj1	FObj2	FObj3	FObj4	FObj5	FObj6	FObj7
A1	*	*	*	*	*	*	*
A2		*	*	*			
A3					*	*	
A4				*	*	*	*
A5				*	*	*	*
A6			*	*	*	*	*
B1	*	*	*	*	*	*	*
B2	*	*	*	*			
B3		*	*	*	*	*	
B4			*	*	*	*	*
B5					*	*	*
C1	*	*	*	*	*	*	*
C2	*	*	*	*	*	*	*
C3	*	*	*	*	*	*	*
C4	*	*	*	*	*	*	*
C5	*	*	*	*	*	*	*
C6	*	*	*	*	*	*	*
C7	*	*	*	*	*	*	*
D1	*	*	*	*	*	*	*
D2	*	*	*				
D3	*	*	*	*	*		
D4			*	*	*	*	*
D5			*	*	*	*	*

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

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

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

Universitie.

9. Teaching and Learning Strategies:

- Interactive lectures
- Seminars
- Practical session
- Clinical Training
- Discussion
- Self-learning
- Presentation
- Case study

Teaching Strategy	Description
Interactive lectures	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.
Seminars	Discussion of specific topic by group of students under the observation of the lecturer.
Practical session	In highly equipped labs the student will trained by practicing certain topic.
Training	This training preformed in the hospital by such teaching strategy the students improve their clinical skills.
Discussion	It is interactive measure by which the lecturer explores the level of understanding the subject among students
Self-learning	Improving the knowledge by the student oneself without assistants
Office hours	By which the lecturer discusses and answer for students' questions
Presentation	An activity by which the student describes, explain something Infront of group of students.
Case studies	Study the clinical cases in depth, training the details of history taking, examination, analysis the gathering data and obtaining diagnosis.

10. Assessment Methods:

- Written exam (mid and final terms and quizzes),
- Final practical exam
- Log book evaluation
- OSPE/OSCE
- Final oral exam
- Research
- Homework
- Team work

Assessment Strategy	Description
Written exam (Mid and final terms and quizzes)	Mid-term test is conducted in the 8 th 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.
Final practical exam/OSPE	Final practical exam is carried on the end of each course in order to examine the student's practical skills.
OSCE	Clinical examination
Log book evaluation	Student's logbooks are universally applied for monitoring and evaluation of Practical and clinical trainees. Logbooks are kept by the individual trainee and detail every practical and clinical procedure they perform and their role during the procedure which evaluated and signed by the supervisor of the students.
Oral final exam	It's part of the final assessment of the student knowledge by which the examiner gives the question in spoken form.
Research project	It's used in some not all courses.
Homework	Individual assessment
Teamwork	Group assessment

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

PILOs	Teaching Strategy	Assessment Methods
Knowledge and Understanding A1, A2, A3, A4,A5,A6	- Interactive lectures, - Seminars - Discussion - Case Study - Office Hours - Self learning	-Quizzes - Mid-term Exam - Written Exam -Final Oral Exam -Final Clinical Exam
Intellectual Skills B1, B2, B3, B4, B5	-Interactive lectures, - Seminars - Discussion - Case Study - Self Learning	- Mid-term Exam -Written Exam -Final Oral Exam -Final Clinical Exam -Final Practical Exam
Professional & practical skills C1, C2, C3, C4,C5,C6,C7	- Interactive lectures, -Practical session. -Clinical Training -Case Study - Log book	- Quizzes - Mid-term practical exam -Final Clinical Exam - Final Practical Exam -OSPE - Log book evaluation - OSCE
General & Transferable Skills D1, D2, D3, D4,D5	- Lectures - Seminars - Discussion - Case Study - Self Learning - Presentation	- Quizzes -Mid-term Exam -Final Written Exam -Final Oral Exam -Final Clinical Exam

12. Project Assessment:

Each project will be assessed as follows:

Item	Marks Distribution
Research Project	70
Discussion	30
Total	100

13. Training Course Assessment:

The training course will be assessed through:

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

14. Intended Learning Outcomes Mapping:

See below Annexes.

--	Similar Accredited Programs							
	Un. Taiz PILOs	Un. S.T. PILOs	Un. Had. PILOs	Un. Ben. PILOs	Un. Jor. PILOs	Un. Teh. PILOs	Un. Dub. PILOs	Un. Taiz PILOs
A1	*	*	*	*	*	*	*	*
A2	*	*	*	*	*	*	*	*
A3		*	*					
A4	*			*				*
A5			*	*				
A6	*	*	*	*	*			*
B1	*	*	*	*	*	*	*	*
B2	*	*	*	*	*	*	*	*
B3	*	*	*					*
B4		*	*	*				
B5				*	*	*	*	
C1	*	*	*	*	*	*	*	*
C2	*	*	*	*	*	*	*	*
C3	*	*	*	*	*	*	*	*
C4	*	*	*	*	*	*	*	*
C5	*	*	*	*	*	*	*	*
C6	*	*	*	*	*	*	*	*
C7				*	*	*	*	
D1	*	*	*	*	*	*	*	*
D2	*	*	*	*	*	*	*	*
D3	*	*	*					*
D4	*	*	*					*
D5	*	*	*					*

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	16	6.7
		Elective	None	None	
2	Faculty Requirements	Compulsory	5	8	3.4
3	Program Requirements	Compulsory	58	206	87.3
4	Elective Field Training*	Compulsory	None	None	None
		Elective	None	None	
5	Project Courses*	Compulsory	3	6	2.5
		Elective	None	None	
Total:			74	236	%100

*Compulsory for graduation

15.1. University Requirements

Compulsory Courses (8 courses/ 16 C. Hrs)

No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1.	1/1	A21U112	Arabic Language I	لغة عربية 1	2	2	0	0	None
2.	1/2	A21U121	Arabic Language 2	لغة عربية 2	2	2	0	0	None
3.	1/1	A21U114	English Language 1	لغة انجليزية 1	2	2	0	0	None
4.	1/2	A21U122	English Language 2	لغة انجليزية 2	2	2	0	0	None
5.	1/1	A21U113	Computer Skills	مهارات الحاسوب	2	1	2	0	None

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6.	1/1	A21U111	Islamic Culture	ثقافة إسلامية	2	2	0	0	None
7.	1/2	A21U127	National Culture	ثقافة وطنية	2	2	0	0	None
8.	1/2	A21U126	Arabic Israel Conflict	صراع عربي إسرائيلي	2	2	0	0	None
Total					16	15	2	0	

Elective Courses: None

15.2. Faculty Requirements

Compulsory Courses (5 courses/ 8C. Hrs)

No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	1/1	A21F110	Medical Physics	فيزياء طبية	2	1	2	0	None
2	1/1	A21F111	General and organic Chemistry	كيمياء عامة وعضوية	3	2	2	0	None
3	1/2	A21F120	Medical Terminology	مصطلحات طبية	1	1	0	0	English Language (101-102)
4	1/1	A21F112	Medical Ethics	اخلاقيات الطب	1	1	0	0	Community1
5	1/1	A21F113	Communication skills	مهارات التواصل	1	1	0	0	Community 1,2
Total					8	6	4	0	

Elective Course: None

15.3. Program Requirements

Compulsory Courses (61courses / 212 C.Hrs)

No .	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	1/1	A21P110	Community Medicine 1	طب مجتمع 1	2	2	0	0	None
2	1/2	A21P120	General Anatomy & Embryology	علم التشريح والاجنة العام	3	2	2	0	None
3	1/2	A21P121	General Physiology	علم وظائف الاعضاء العام	2	2	0	0	Medical Physics
4	1/1	A21P122	General Cell Biology and Histology	علم الخلية والانسجة العام	3	2	2	0	None
5	1/2	A21P123	General Biochemistry	علم الكيمياء الحيوية العام	3	2	2	0	General Cell Biology and Histology - General and organic Chemistry
6	2/1	A21P210	General Medical Microbiology	علم الأحياء الدقيقة الطبية العام	3	2	2	0	General Cell Biology and Histology
7	1/2	A21P217	General Pathology	علم الأمراض العام	3	2	2	0	General anatomy-physiology
8	2/1	A21P218	General Pharmacology	علم الأدوية العام	3	2	2	0	General and organic chemistry General physiology General pathology
9	2/2	A21P219	Medical Biostatistics (CM 2)	إحصاء طبي (ط مج 2)	2	2	0	0	Community Medicine 1
10	2/1	A21P2110	Molecular Biology & Genetics	علم الاحياء الجزيئية والوراثة	2	2	0	0	Cell Biology and Histology
11	2/1	A21P2111	General Medical Parasitology	علم الطفيليات الطبية العام	2	1	2	0	Medical Microbiology
12	2/1	A21P2112	Nutrition	التغذية	2	1	2	0	general biochemistry
13	2/1	A21P2214	Musculo-skeletal system (MSS)	الجهاز الهيكلي العضلي	8	6	4	0	GEN. Anatomy & Embryology, GEN. physiology , pathology
14	2/2	A21P2215	Haemato-lymphatic sys	جهاز الدم واللمف	5	3	4	0	GEN. Anatomy & Embryology,

No .	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
			(HLS)						GEN. physiology , pathology
15	2/2	A21P2216	Respiratory system (RS)	الجهاز التنفسي	5	4	2	0	GEN. Anatomy & Embryology, GEN. physiology , pathology
16	2/2	A21P3120	Cardiovascular System (CVS)	الجهاز الدوري القلبي	6	4	4	0	GEN. Anatomy & Embryology, GEN. physiology , pathology
17	2/2	A21P2217	Immunology	علم المناعة	2	1	2	0	microbiology+ Haematolymphatic sys
18	3/1	A21P3119	Genito-Urinary System (GUS)	الجهاز البولي والتناسلي	8	6	4	0	GEN. ANATOMY & EMBRYOLOGY, GEN. PHYSIOL., GEN., PATHOLOGY
19	3/1	A21P2113	Primary health care (CM 3)	رعاية صحية أولية (ط مج 3)	2	1	2	0	COMMUNITY MEDICINE 1&2
20	3/1	A21P3121	Research methodology (CM 4)	مناهج البحث العلمي (ط مج 4)	2	2	0	0	Community medicine 1,2,3
21	3/1	A21P3122	Gastro-intestinal system (GIT)	الجهاز الهضمي	8	6	4	0	GEN. ANATOMY & EMBRYOLOGY, GEN. PHYSIOL., GEN., PATHOLOGY
22	3/2	A21P3119	Endocrine System (ES)	جهاز الغدد الصماء	6	4	4	0	GEN. ANATOMY & EMBRYOLOGY, GEN. PHYSIOL., GEN., PATHOLOGY
23	3/2	A21P3223	Central	الجهاز	8	6	4	0	(GEN.

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No .	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
			nervous System (CNS)	العصبي المركزي					ANATOMY & EMBRYOLOGY, GEN, PHYSIOLOGY. PATHOLOGY
24	3/2	A21P322 4	Special Senses (SS) & Anatomy of Head Neck*	الحواس الخاصة وتشريح الراس والرقبة	4	3	2	0	GEN. ANATOMY & EMBRYOLOGY, GEN. PHYSIOLOGY GEN. PATHOLOGY AND CNS
25	3/2	A21P322 5	Clinical skills	مهارات سريرية	2	1	2	0	NONE
26	4/1	A21P322 6	General Medicine 1	باطنة عامة 1	5	2	6	0	MSS.CVS,RS,GIS HLS, NS1-2,GU,ENDOCRINE
27	4/1	A21P412 7	General Surgery 1	جراحة عامة 1	5	2	6	0	GIS, MSS. CVS, RS, HLS, CNS, SS, GUS ,ENDOCRINE
28	4/1	A21P412 8	Obstetrics & Gynecology I	نساء وتوليد 1	3	1	4	0	MSS. RS, CVS, GIS, HLS, CNS, SS, GUS, ENDOCRINE
29	4/1	A21P413 0	Pediatrics 1	طب الأطفال 1	3	1	4	0	MSS, RS CVS, GIS HLS, CNS, SS, GUS, ENDOCRINE
30	4/1	A21P412 9	Diagnostic Radiology	اشعة تشخيصية	2	1	2	0	MSS. CVS, RS, GIS, CNS, SS, GUS, ENDOCR.
31	4/1	A21P413 1	Anesthesia	تخدير	2	1	2	0	GEN. HARMACO., CNS MSS, CVS, RS
32	4/2	A21P423	General	باطنة عامة 2	5	2	6	0	MSS, CVS, RS,

No .	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
		2	Medicine 2						GIS, HLS, CNS, SS, GUS, ENDOCRINE, GM, I
33	4/2	A21P413 3	General Surgery 2	جراحة عامة 2	5	2	6	0	GIS MSS.CVS,RS, HLS, NS1-2,GU,ENDOCRIN E SYS, G. SUR. I.
34	4/2	A21P513 4	Obstetrics & Gynecology 2	نساء وتوليد 2	3	1	4	0	RS, MSS. CVS, GIS, HLS, CNS, SS, GUS, ENDOCRINE, OBS/G I
35	4/2	A21P423 5	Pediatrics 2	طب الأطفال 2	3	1	4	0	RS, MSS. CVS, GIS, HLS, CNS, SS, GUS, ENDOC. SYS, PED I
36	4/2	A21P423 6	Emergency medicine	طب الطوارئ	2.5	1	3	0	GIS MSS. CVS, RS, HLS, CNS, SS, GUS, ENDOC. SYS
37	4/2	A21P42 37	Health Management (CM 5)	إدارة صحية (ط مج 5)	1	1	0	0	COMMUNITY MEDICINE 1,2,3
38	5/1	A21P513 8	Otorhino-laryngology (ENT)	انف، اذن وحنجرة	2.5	1	3	0	RS, GIS, SS, HEAD AND NECK
39	5/1	A21P513 9	Psychiatry	الطب النفسي	2.5	1	3	0	CNS, NEUROLOGY
40	5/1	A21P514 0	Ophthalmology	العيون	2.5	1	3	0	CNS, SS, HEAD AND NECK
41	5/1	A21P414 1	Urology	جراحة المسالك البولية	2.5	1	3	0	GENERAL SURGERY I, GUS.
42	5/1	A21P514 2	Neurology	امراض عصبية	3	1	4	0	CNS, SS.

No .	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
43	5/1	A21P514 3	Dermatology	امراض جلدية	3	1	4	0	MSS ENDOCR. SYS GUS
44	5/1	A21P514 4	Family Medicine	طب الأسرة	2.5	1	3	0	COMMUNITY 1,2,3,4
45	5/2	A21P524 5	General Medicine 3	باطنة عامة 3	5	2	6	0	GENERAL MEDICINE 2
46	5/2	A21P524 6	General Surgery 3	جراحة عامة 3	5	2	6	0	GENERAL SURGERY 2
47	5/2	A21P524 7	Obstetrics & Gynecology 3	نساء وتوليد 3	2.5	1	3	0	OBSTETRICS/ GYNECOLOGY 2
48	5/2	A21P524 8	Pediatrics 3	طب الأطفال 3	2.5	1	3	0	PEDIATRICS 2
49	5/2	A21P524 9	Forensic & Clinical Toxicology	الطب الشرعي والسموم	2.5	1	3	0	G.PHARM., RS MSS, CVS, GIS HLS, CNS, SS, GUS, ENDO.S.
50	5/2	A21P525 0	Orthopedics	جراحة العظام	2.5	1	3	0	MSS, CNS, G. SURGERY 1
51	5/2	A21P525 1	*Graduation Research	بحث التخرج	2	0	4	0	RESEARCH METHODOLOGY
52	6/1	A21P615 2	General Medicine 4	باطنية عامة 4	5	2	6	0	GENERAL MEDICINE III
53	6/1	A21P615 3	General Surgery 4	جراحة عامة 4	5	2	6	0	GENERAL SURGERY III
54	6/1	A21P615 4	Obstetrics & Gynecology 4	نساء وتوليد 4	4	1	6	0	OBSTETRICS/ GYNECOLOGY III
55	6/1	A21P615 5	Pediatrics 4	طب أطفال 4	4	1	6	0	PEDIATRICS III
56	6/1	A21P615 1	Graduation Research	بحث التخرج	2	0	4	0	RESEARCH METHODOLOGY
57	6/2	A21P625 6	General Medicine 5	باطنية عامة 5	3.5	0	7	0	GENERAL MEDICINE III

No .	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
58	6/2	A21P625 7	General Surgery 5	جراحة عامة 5	3.5	0	7	0	GENERAL SURGERY III
59	6/2	A21P625 8	Obstetrics & Gynecology 5	نساء وولادة 5	3.5	0	7	0	OBSTETRICS/ GYNECOLOGY IV
60	6/2	A A21P62 59	Pediatrics 5	طب اطفال 5	3.5	0	7	0	PEDIATRICS IV
61	6/2	A21P625 1	Graduation Research	بحث التخرج	2	0	4	0	RESEARCH METHODOLOGY
Total					212	106	212	0	

Project Work Courses (3 courses continuous in the fifth and sixth level / 6 Cr.Hrs)									
No	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	5/2, 6/1 and 6/2	A21P5251 A21P6151 and A21P6251	Graduation Research	بحث التخرج	6	0	12	0	RESEARCH METHODOLOGY
Total					6	0	12	0	

*Graduation project which continuous in the fifth and sixth level.

16. Study Plan: Total Credit Hours =236 C.H

Level 1										
Semester 1										
No.	Level-Sem.	Course Code	Course Name	اسم المقرر	No of Weeks	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	1/1	A21U111	Islamic culture	ثقافة اسلامية	16	2	2	0	0	NONE
2	1/1	A21U127	National culture	ثقافة وطنية	16	2	2	0	0	NONE
3	1/1	A21U114	English Language 1	لغة انجليزية 1	16	2	2	0	0	NONE
4	1/1	A21U112	Arabic Language 1	لغة عربية 1	16	2	2	0	0	NONE

5	1/1	A21F113	Medical Physics	فيزياء طبية	16	2	1	2	0	NONE
6	1/1	A21F114	General & Organic Chemistry	كيمياء عامة وعضوية	16	3	2	2	0	NONE
7	1/1	A21P111	Community Medicine I	طب مجتمع 1	16	2	2	0	0	NONE
8	1/1	A21F112	Medical Ethics	اخلاقيات الطب	16	1	1	0	0	NONE
9	1/1	A21F113	Communication Skills	مهارات التواصل	16	1	1	0	0	NONE
10	1/1	A21P124	General Cell Biology and Histology	علم الخلية والانسجة العام	16	3	2	2	0	NONE
Total						20	17	6	0	

Semester2										
No.	Level-Sem.	Course Code	Course Name	اسم المقرر	No of Weeks	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	1/2	A21U121	Arabic Language 2	لغة عربية 2	16	2	2	0	0	ARABIC LANGUAGE 1
2	1/2	A21U126	Arab and Israeli conflict	صراع عربي إسرائيلي	16	2	2	0	0	NONE
3	1/2	A21U122	English Language 2	لغة انجليزية 2	16	2	2	0	0	ENGLISH LANGUAGE (101)
4	1/2	A21U113	Computer Skills	مهارات الحاسوب	16	2	1	2	0	NONE
5	1/2	A21P122	General Anatomy & Embryology	علم التشريح والاجنة العام	16	3	2	2	0	General Cell Biology and Histology
6	1/2	A21P123	General Physiology	علم وظائف الاعضاء العام	16	2	2	0	0	PHYSICS
7	1/2	A21P124	General Pathology	علم الأمراض العام	16	3	2	2	0	GEN. ANATOMY AND PHYSIOLOGY
8	1/2	A21P125	General Biochemistry	كيمياء حيوية عامة	16	3	2	2	0	GENERAL & ORGANIC CHEMISTRY

9	1/2	A21F125	Medical Terminology	مصطلحات طبية	16	1	1	0	0	ENGLISH LANGUAGE (101-102)
Total						20	16	8	0	

Level 2

Semester 1										
No.	Level-Sem.	Course Code	Course Name	اسم المقرر	No of Weeks	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	2/1	A21P216	General Medical Microbiology	علم الأحياء الدقيقة الطبية العام	16	3	2	2	0	GENERAL CELL BIOLOGY AND HISTOLOGY
2	2/1	A21P218	General Pharmacology	علم الأدوية العام	16	3	2	2	0	GEN. AND ORG. CHEM. GEN. PHYSIO. GEN. PATHO. & GEN. MICROBIOLOGY
3	2/1	A21P2110	Molecular Biology & Genetics	علم الأحياء الجزيئية والوراثة	16	2	2	0	0	GENERAL CELL BIOLOGY AND HISTOLOGY
4	2/1	A21P2111	Medical Parasitology	علم الطفيليات الطبية	16	2	1	2	0	GENERAL MICROBIOLOGY
5	2/1	A21P2112	Nutrition	التغذية	16	2	1	2	0	GENERAL BIOCHEMISTRY
6	2/1	A21P2114	Musculo-skeletal system (MSS)	الجهاز الهيكلي العضلي	8	8	6	4	0	GEN. ANATOMY & EMBRYOLOGY, GEN. PHYSIOLOGY GEN. PATHOLOGY
Total						20	14	12	0	

Semester 2										
No.	Level-Sem.	Course Code	Course Name	اسم المقرر	No of Weeks	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	2/2	A21P219	Medical Biostatistics	إحصاء طبي (مح 2)	16	2	2	0	0	COMMUNITY MEDICINE 1

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(CM 2)										
2	2/2	A21P2215	Haemato-lymphatic system (HLS)	جهاز الدم واللمف	5	5	3	4	0	GEN. ANATOMY & EMBRYO. GEN. PHYSIOL. GEN. PATHO.
3	2/2	A21P2216	Respiratory system (RS)	الجهاز التنفسي	5	5	4	2	0	GEN. ANATOMY & EMBRYOL, GEN. PHYSIOL. GEN. PATHOL.
4	2/2	A21P2218	Cardiovascular System (CVS)	الجهاز الدوري القلبي	6	6	4	4	0	GEN. ANATOMY & EMBRYOL, GEN. BIOCHEM.
5	2/2	A21P2217	Immunology	علم المناعة	16	2	1	2	0	GEN. PHYSIOLOGY, HAEMATO-LYMPHATIC SYS
Total						20	14	12	0	

Level 3

Semester 1

No.	Level-Sem.	Course Code	Course Name	اسم المقرر	No of Weeks	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	3/1	A21P2113	Primary health care (CM 3)	رعاية صحية أولية (ط مج 3)	2	2	1	2	0	COMMUNITY MEDICINE 1&2
2	3/1	A21P3122	Gastro-intestinal system (GIS)	الجهاز الهضمي	7	8	6	4	0	GEN. ANAT. & EMBRYO., GEN. PHYSIOL., GEN. PATHOLOGY
3	3/1	A21P3120	Genito-Urinary System (GUS)	الجهاز البولي التناسلي	7	8	6	4	0	GEN. ANATOMY & EMBRYOL. GEN. PHYSIOL., GEN. PATHOL.
4	3/1	A21P3121	Research Methodology (CM 4)	مناهج البحث العلمي (ط مج 4)	16	2	2	0	0	COMMUNITY MEDICINE 1,2,3
Total						20	15	10	0	

Semester 2

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No.	Level-Sem.	Course Code	Course Name	اسم المقرر	No. of Weeks	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	3/2	A21P3119	Endocrine System (ES)	جهاز الغدد الصماء	4	6	4	4	0	GEN. ANATOMY & EMBRYOLOGY, GEN. PHYSIOL., GEN., PATHOLOGY
2	3/2	A21P3223	Central nervous System (NS)	الجهاز العصبي المركزي	8	8	6	4	0	GEN. ANATOMY & EMBRYOLOGY, GEN, PHYSIOLOGY GEN. PATHOLOGY
3	3/2	A21P3224	Special Senses (SS) of Head & Neck*	الحواس الخاصة وتشرح الرأس والرقبة	4	4	3	2	0	GEN. ANATOMY & EMBRYOLOGY, GEN. PHYSIOLOGY GEN. PATHOLOGY AND CNS
4	3/2	A21P3225	Clinical Skills	مهارات سريرية	**16	2	1	2	0	ALL SYSTEMS
Total						20	14	12	0	

* Anatomy of Head & Neck taken throughout the period of CNS and SS (12 weeks) 1hour theory and 2 hours practical per week.

** Practical classes in the skill lab. One day per week.

Level 4

Semester 1										
No.	Level-Sem.	Course Code	Course Name	اسم المقرر	No. of Weeks	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	4/1	A21P3226	General Medicine 1	باطنة عامة 1	4	5	2	6	0	MSS. CVS, RS, GIS HLS, CNS, SS, GUS, ENDOCRINE

2	4/1	A21P4132	General Surgery 1	جراحة عامة 1	4	5	2	6	0	GIS, MSS. CVS, RS, HLS, CNS, SS, GUS ,ENDOC RINE
3	4/1	A21P5143	Obstetrics & gynecology I	نساء وتوليد 1	3	3	1	4	0	MSS. RS, CVS, GIS, HLS, CNS, SS, GUS, ENDOCRI NE
4	4/1	A21P4130	Pediatrics 1	طب الأطفال 1	3	3	1	4	0	MSS, RS CVS, GIS HLS, CNS, SS, GUS, ENDOCRI NE
5	4/1	A21P4129	Diagnostic Radiology	اشعة تشخيصية	2	2	1	2	0	MSS. CVS, RS, GIS, CNS, SS, GUS, ENDOCR
6	4/1	A21P4131	Anesthesia	تخدير	8*	2	1	2	0	GEN. HARMA CO., CNS MSS, CVS, RS
Total						20	8	24	0	

*One day per week for 8 weeks.

Semester 2										
No.	Level-Sem.	Course Code	Course Name	اسم المقرر	No. of Weeks	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	4/2	A21P4232	General Medicine 2	باطنة عامة 2	4	5	2	6	0	MSS, CVS, RS, GIS, HLS, CNS, SS, GUS, ENDOCRINE SYS, GM, I
2	4/2	A21P4233	General Surgery 2	جراحة عامة 2	4	5	2	6	0	GIS MSS.CVS,RS, HLS, NS1- 2,GU,ENDOCRINE SYS, G. SUR. I.

3	4/2	A21P4234	Obstetrics & gynecology 2	نساء وتوليد 2	3	3	1	4	0	RS, MSS. CVS, GIS, HLS, CNS, SS, GUS, ENDOCRINE SYS, OBS/G I
4	4/2	A21P4235	Pediatrics 2	طب الأطفال 2	3	3	1	4	0	RS, MSS. CVS, GIS, HLS, CNS, SS, GUS, ENDOC. SYS, PED I
5	4/2	A21P4236	Emergency medicine	طب الطوارئ	2	2.5	1	3	0	GIS MSS. CVS, RS, HLS, CNS, SS, GUS, ENDOC. SYS
6	4/2	A21P4237	Health Management (CM 5)	إدارة صحية (ط مج 5)	16*	1	1	0	0	COMMUNITY MEDICINE 1,2,3
Total						19.5	8	23	0	

*one hour/ day for 16 weeks (longitudinal).

Level 5

Semester 1

No.	Level -Sem.	Course Code	Course Name	اسم المقرر	No. of We eks	Cr. Hrs.	L	P	T	Prerequi sites, Co-requisi tes
1	5/1	A21P5138	Otorhino-laryngology (ENT)	انف، اذن وحنجرة	2	2.5	1	3	0	RS, GIS, SS, HEAD AND NECK
2	5/1	A21P5139	Psychiatry	الطب النفسي	2	2.5	1	3	0	CNS, NEUROL OGY
3	5/1	A21P5140	Ophthalmology	العيون	2	2.5	1	3	0	CNS, SS, HEAD AND NECK
4	5/1	A21P4141	Urology	جراحة المسالك البولية	2	2.5	1	3	0	GENERAL SURGERY I, GUS.
5	5/1	A21P5142	Neurology	امراض عصبية	3	3	1	4	0	CNS, SS.
6	5/1	A21P5143	Dermatology	امراض جلدية	3	3	1	4	0	MSS ENDOCR. GUS
7	5/1	A21P5144	Family Medicine	طب		2.5	1	3	0	COMMU

			(CM6)	الأسرة (ط مج 6)	2						NITY 1,2,3,4
Total					16	18.5	7	23	0		

Semester 2										
No .	Level-Sem.	Course Code	Course Name	اسم المقرر	No. of Weeks	Cr. Hrs .	L	P	T	Prerequisites, Co-requisites
1	5/2	A21P5245	General Medicine 3	باطنة عامة 3	4	5	2	6	0	GENERAL MEDICINE II
2	5/2	A21P5246	General Surgery 3	جراحة عامة 3	4	5	2	6	0	GENERAL SURGERY II
3	5/2	A21P5247	Obstetrics & gynecology 3	نساء وتوليد 3	2	2.5	1	3	0	OBSTETRICS/ GYNECOLOGY II
4	5/2	A21P4248	Pediatrics 3	طب الأطفال 3	2	2.5	1	3	0	PEDIATRICS II
5	5/2	A21P5249	Forensic & Clinical Toxicology	الطب الشرعي والسموم	2	2.5	1	3	0	G.PHARM., RS MSS, CVS, GIS HLS, CNS, SS, GUS, ENDO.S.
6	5/2	A21P5250	Orthopedics	جراحة العظام	2	2.5	1	3	0	MSS, CNS, G. SURGERY 1
7	5/2	A21P5251	*Graduation Research (CM7)	بحث التخرج (ط مج 7)	16	2	0	4	0	RESEARCH METHODOLOGY
Total						22	8	28	0	

*Graduation project which continuous in the fifth and sixth level.

Level 6

Semester 1										
No.	Level-Sem.	Course Code	Course Name	اسم المقرر	No. of Weeks	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	6/1	A21P6152	General Medicine 4	باطنية عامة 4	4	5	2	6	0	GENERAL MEDICINE III
2	6/1	A21P6153	General	جراحة		5	2	6	0	GENERAL

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			Surgery 4	4 عامة	4						SURGERY III
3	6/1	A21P6154	Obstetrics & Gynecology IV	نساء وتوليد 4	4	4	1	6	0		OBSTETRICS/ GYNECOLOGY III
4	6/1	A21P6155	Pediatrics 4	طب أطفال 4	4	4	1	6	0		PEDIATRICS III
5	6/1	A21P6151	Graduation Research (CM7)	بحث التخرج (ط مج 7)	16	2	0	4	0		RESEARCH METHODOLOGY
			Total			20	6	28	0		

Semester2										
No.	Level-Sem.	Course Code	Course Name	اسم المقرر المقدر	No. of Weeks	Cr. Hrs.	L	P	T	Prerequisites, Co-requisites
1	6/2	A21P6256	General Medicine 5	باطنية عامة 5	4	3.5	0	7	0	GENERAL MEDICINE III
2	6/2	A21P6257	General Surgery 5	جراحة عامة 5	4	3.5	0	7	0	GENERAL SURGERY III
3	6/2	A21P6258	Obstetrics & Gynecology 5	نساء وولادة 5	4	3.5	0	7	0	OBSTETRICS/ GYNECOLOGY IV
4	6/2	A21P6259	Pediatrics 5	طب اطفال 5	4	3.5	0	7	0	PEDIATRICS IV
5	6/2	A21P6251	Graduation Research (CM7)	بحث التخرج (ط مج 7)	16	2	0	4	0	RESEARCH METHODOLOGY
			Total			16	0	32	0	

* All longitudinal courses are sixteen weeks, including the midterm and final exams.

* Introduction to Medical Studies Orientation (One week)

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	

Benchmarking	21 SEPTEMBER UNIVERSITY	HADRAMOUT UNIVERSITY	TAIZ University	BAN HA University Egypt	JORDAN University Of Science and Technology	TEHRAN University	DUBLIN University						Average Cr. Hrs.
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First	First	4	9	4	10	0	2	0	0	0	0	10	20	40	
	Second	4	9	1	1	5	12	0	0	0	0	9	20		
Second	First	0	0	0	0	0	0	0	0	0	0	6	20	40	
	Second	0	0	0	0	0	0	0	0	0	0	5	20		
Third	First	0	0	0	0	0	0	0	0	0	0	4	20	40	
	Second	0	0	0	0	0	0	0	0	0	0	4	20		
Fourth	First	0	0	0	0	0	0	0	0	0	0	6	20	39.5	
	Second	0	0	0	0	0	0	0	0	1*	2	6	19.5		
Fifth	First	0	0	0	0	0	0	0	0	0	0	7	18.5	40.5	
	Second	0	0	0	0	0	0	0	0	1*	2	7	22		
Sixth	First	0	0	0	0	0	0	0	0	0	0	5	20	36	
	Second	0	0	0	0	0	0	0	0	0	1*	2	5		16
Total:		8	18	5	11	0	20	4				6	74	236	236

Annex- 11, Survey of Credit Hours of Similar Programs

Benc hmar king		21 SEPT EMBER. Universit y	HADRA MOUT Universit y	TAIZ Unive rsity	BAN HA Unive rsity Egypt	JORD AN Univer sity Of Scienc e and Techn ology	TEH RAN Unive rsity	DUBL IN Unive rsity				Aver age Cr. Hrs.
University Requireme nts	Credit Hours	16	14	16	0	16	20	0		-	-	14
	Percentage	0	6%	0	0	0	0	0	0	-	-	
University Electives	Credit Hours	0	0	0	0	9	0	0	0	-	-	---
	Percentage		0	0	0	0	0	0	0	-	-	
Faculty Requireme nts	Credit Hours	8	224	9	0	16		0		-	-	---
	Percentage	0	94%	0	0	0	0	0	0	-	-	
Faculty Electives	Credit Hours	0	0	0	0	0	0	0	0	-	-	---
	Percentage	0	0	0	0	0	0	0	0	-	-	
Department Requirements	Credit Hours	206	224	218	252	216	204	320		-	-	246
	Percentage	0	0	0	0	0	0	0	0	-	-	
Major Requireme nts	Credit Hours	0	0	0	0	0	0	0	0	-	-	---
	Percentage	0	0	0	0	0	0	0	0	-	-	
Major Electives	Credit Hours	0	0	0	0	0	0	50		-	-	---
	Percentage	0	0	0	0	0	0	0	0	-	-	
Practical Courses	Credit Hours	0	113	0	0	0	0	0	0	-	-	---
	Percentage	0	47%	0	0	0	0	0	0	-	-	
Training Courses	Credit Hours	0	0	0	0	0	74	0	0	-	-	---
	Percentage	0	0	0	0	0	0	0	0	-	-	
Project Courses	Credit Hours	6	0	6	0	0	0	0	0	-	-	---
	Percentage	6	0	2.40	0	0	0	0	0	0	0	
Total Credit Hours	Credit Hours	236	238	249	252	257	298	370				271

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

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

Annex- 14-Themes of Courses of Study and their Weightage

Annex15 -, Coding System

Annex16 -, Survey of Course Names per Academic Semesters of Similar Programs

Annex-17, Comparison of Program Courses and Similar Programs Courses

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 234 credit hours.
4. Minimum score for any student to pass any credit hours course is **65%** marks.

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%	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		
2	External examiner evaluation		
3	Graduated student evaluation		
4	External evaluator		
5	Council for Accreditation and Quality Assurance in Yemen		

22. Program Quality Standards:	
<ul style="list-style-type: none"> - Continuous evaluation - Plan for developing Program - Workshops 	
23. Internal and external training to satisfy program standards::	
<ul style="list-style-type: none"> - Internally: - training in well-equipped labs - Externally: -Training in hospital controlled by logbook 	
24. Program Policies:	
Based on University Regulations	
1.	<p>(Class Attendance):</p> <p>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 hour, student will be required to retake the entire course again.</p>
2.	<p>(Tardy) :</p> <p>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.</p>
3.	<p>(Exam Attendance/Punctuality) :</p> <p>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.</p>
4.	<p>(Assignments & Projects) :</p> <p>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.</p>
5.	<p>(Cheating) :</p> <p>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.</p>
6.	<p>(Plagiarism) :</p> <p>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.</p>

7.	<p>(Other policies) :</p> <ul style="list-style-type: none">- 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.- Mobile phones are not allowed in class during the examination.- Lecture notes and assignments might be given directly to students using soft or hard copy.

Medicine Program Specifications

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- Vision of the Corresponding Departments and Suggested Vision:

No	The Department	Vision
1.	No Vision for the program but Mission	No Vision for the program but Mission
2.		
3.		
4.		
5.		
6.		

2- Mapping of Department Vision to the University and Faculty Visions:

University Vision	Faculty of Medicine and Health Sciences Vision	Medicine 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

3- Mission of the Corresponding Departments and Suggested Mission: :(Benchmarks)

#	The Department	Mission
1. 2. 3. 4. 5. 6.	Structure of Medicine begin with Program not with department, because departments come after program, so there is no mission for department but for Program	Structure of Medicine begin with Program not with department, because departments come after program, so there is no mission for department but for Program

4- Mapping of Department Mission to the University and Faculty Missions:

University Mission	Faculty of Medicine and Health Sciences Mission	Medicine Program Mission
Leading the transformation in the management and delivery of health care	The Faculty of Medicine be contemporary in providing a distinguished educational level	Providing the community with distinguished doctors with human values and who play an educational,

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University Mission	Faculty of Medicine and Health Sciences Mission	Medicine Program Mission
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.	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.	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- Objectives (Educational) of the Corresponding Departments and Suggested Objectives:

No	The Department	Objectives
1.	Team of work have been written objectives for faculty and program, not for departments	Team of work have been written objectives for faculty and program, not for departments
2.		
3.		
4.		
5.		
6.		

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6- Mapping of Department Objectives to the University and Faculty Objectives:

University Objectives	Faculty of Medicine and Health sciences Objectives	Medicine Program Objectives
<p>1. Ensuring the application of quality standards and setting standards of excellence in medical and applied sciences, scientific research and community service.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>5. Enhancing the university’s position as a</p>	<p>1. Preparing and rehabilitating distinguished medical cadres specialized with high efficiency in the medical field.</p> <p>2. Providing students with basic knowledge of biomedical and clinical sciences in order to apply that knowledge to deal with complex clinical cases.</p> <p>3. Providing students with basic knowledge to understand the impact of different stages of life, gender differences, different lifestyles, psychological, social and epidemiological genetic factors and their impact on the spread of diseases and ways to prevent them.</p> <p>4. Enable students to know the basic concepts of preventive and rehabilitation applications and diagnose</p>	<p>7. Graduating competent doctors who possess the basic medical knowledge and skills necessary to practice medicine in accordance with international standards, capable of continuous self-learning and prepared for professional development.</p> <p>8. Develop and develop the educational, training, administrative and leadership skills of the teaching staff and administrators in the program.</p> <p>9. Developing the human aspect and a sense of duty towards the patient and society among medical students.</p> <p>10. Develop communication, leadership and scientific research skills among medical</p>

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University Objectives	Faculty of Medicine and Health sciences Objectives	Medicine Program Objectives
<p>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.</p>	<p>acute medical problems so that they are able to apply the concepts in clinical practice.</p> <p>5. Providing students with the ability to evaluate patients and manage their health problems by completing a comprehensive medical history.</p> <p>6. Providing students with the scientific method in medical diagnosis, treatment and medical analysis so that they are able to use them in solving patients' problems.</p> <p>7. Providing students with communication skills with patients and enabling them to acquire field examination skills and the proper use of diagnostic tools and means.</p> <p>8. Practicing appropriate professional behavior with patients and colleagues, adhering to professional</p>	<p>students</p> <p>11.Enhancing the principles of professional, ethical and national responsibility among students.</p> <p>12.Contribute to raising the reputation of medical education and health care locally and regionally.</p> <p>13.Dissemination and promotion of the concepts of quality assurance among employees and students.</p> <p>8-Developing the level of health awareness in the local community through health care and education programs.</p>

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University Objectives	Faculty of Medicine and Health sciences Objectives	Medicine Program Objectives
	<p>standards of ethical behavior and working in harmony with one-team promotions.</p> <p>9. Activating the partnership with civil society institutions and relevant authorities locally, regionally and internationally to provide a stimulating and supportive educational environment in a manner that serves to enhance public health efforts and community safety.</p> <p>10. 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>11. Continuously developing and updating study plans and teaching methods by keeping pace with modern scientific developments.</p>	

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Annex- 2, Academic Standards Curriculum Criteria of Accreditation Board

1.



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

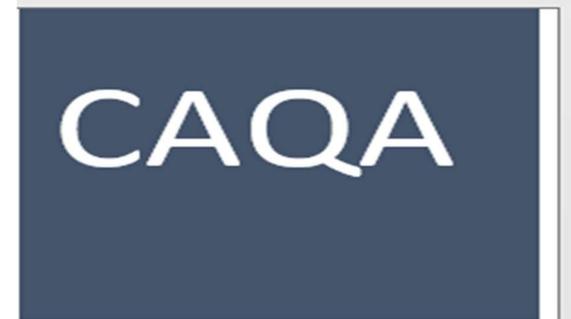
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**National
Accreditation
Standards for
Faculties of
Medicine in
Yemen**

2019

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

Attached Separately

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Medicine Program Specifications

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	21 September University		Medicine	Medicine	Yemen	MBBS	Council for accreditation and quality assurance (CAQA)		6 years and 1 year Internship
The 1st Program	Medicine Program	Hadramout University - Yemen	https://www.hu.edu.ye	Medicine	Medicine	Yemen	MBBS	Council for accreditation and quality assurance (CAQA)		6
The 2nd Program	Medicine Program	Taiz university -Yemen	http://www.taiz.edu.ye/	Medicine and Health Sciences	Medicine	Yemen	MBBS	Council for accreditation and quality assurance (CAQA)		6
The 3rd Program	Medicine Program	University of Science and Technology (YUST)-Yemen	https://www.ust.edu.ye/	Medicine and Health Sciences	Medicine	Yemen	MBBS	Council for accreditation and quality assurance (CAQA)		6
The 4th Program	Medicine Program	Benha University Egypt	https://www.fmed.bu.edu.eg/	Medicine	Medicine	Egypt	MBBS	The National Authority for Quality Assurance of Education and Accreditation (NAQAA)Egypt	2020	5
The 5th Program	Medicine Program	Jordan University of Science and Technology (JUST)-Jordan	www.just.edu.jo	Medicine	Medicine	Jordan	MBBS	Higher Education Accreditation Commission (HEAC) Jordan	2011	6

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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
The 6 th Program	Medicine Program	TAHRAN UNIVERSITY-IRAN	https://en.tums.ac.ir/en	Medicine and Health Sciences	Medicine	IRAN	MBBS	Accreditation Services for International Colleges (ASIC) as a "premier university" National High Council for Planning of health and Medical Sciences.		5.5-7
The 7 th Program	Medicine Program	DUBLIN UNIVERSITY-IRELAND-UK	https://www.ucd.ie	Medicine and Health Sciences	Medicine	IRELAND-UK	MBBS	The National University of Ireland (NUI), Accredited provider of healthcare education in Europe.		6

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Medicine Program Specifications

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

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

University	Hadramout University - Yemen	Taiz university -Yemen	Benha University Egypt	Jordan University of Science and Technology (JUST)-Jordan	TAHRAN UNIVERSITY- IRAN	DUBLIN UNIVERSITY- IRELAND-UK	21 Sep. University
Faculty	Medicine & Health Sciences	Medicine & Health Sciences	Medicine	Medicine & Health Sciences	Medicine & Health Sciences	Medicine	Medicine
Department	Medicine	Medicine	Medicine	Medicine	Medicine	Medicine	Medicine
Program	Medicine	Medicine	Medicine	Medicine	Medicine	Medicine	Medicine
Country	Yemen	Yemen	Egypt	Jordan	IRAN	IRELAND-UK	Yemen
Program Vision	To be regionally distinctive in learning outcomes, research and community development.	The college aspires to become one of the educational, research and treatment institutions concerned with the curative and preventive medical field to serve the	Faculty of Medicine seeks to achieve excellence, leadership and keeps up with the continuous development in the field of medical education and scientific research at the local, regional and international levels to improve the	The Faculty of Medicine at Jordan University of Science and Technology (FMJUST) is committed to teaching with creativity, and	TUMS' vision is to become an internationally recognized university that will draw international students, fellows and researchers from all around the world.	To be internationally recognised as a dynamic, research-intensive Medical School fully integrated within Ireland's global University and within Ireland's leading academic	No Mission

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University	Hadramout University - Yemen	Taiz university -Yemen	Benha University Egypt	Jordan University of Science and Technology (JUST)-Jordan	TAHRAN UNIVERSITY- IRAN	DUBLIN UNIVERSITY- IRELAND-UK	21 Sep. University
		Yemeni community and reach the humanitarian goal of "Health for All"	health level on the country from a moral standpoint.	dedication; healing with quality, and compassion; and research with innovation.		health system.	
Program Mission	Providing distinctive academic programs and researches that contribute to the quality of learning, the production of knowledge and the development of society through a motivating environment for learning and creativity, the adoption of quality standards, and creating effective	The college seeks, by adopting principles, philosophy, and goals that achieve aspirations and meet the needs of Yemeni society for growth and	Faculty of Medicine is committed to rehabilitate competent doctors who can compete and achieve scientific increase. The Faculty also pledges to support scientific research in addition to developing the submitted medical service and supports the surrounding environment in a moral way.	FMJUST is a community of scholars dedicated to provide relevant education to a diverse body of medical undergraduate and postgraduate students; to deliver state-of-the-art health care service and medical research.	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.	To improve healthcare in Ireland and around the world by educating and training health professionals and translational medicine scientists who together form a community that is driven by a commitment to service, enquiry and continuous improvement.	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

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University	Hadramout University - Yemen	Taiz university -Yemen	Benha University Egypt	Jordan University of Science and Technology (JUST)-Jordan	TAHRAN UNIVERSITY- IRAN	DUBLIN UNIVERSITY- IRELAND-UK	21 Sep. University
	partnerships	development and building a better future, and a society free from physical and psychological diseases, by preparing qualified and highly trained medical and health cadres to achieve its mission:(Raising					local and global medical community.

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		the health level of the Yemeni community)					
Program Objectives	<p>1. Graduation of a physician who is psychologically and behaviorally prepared to work efficiently in the field of curative, preventive and rehabilitative health.</p> <p>2. Forming the integrated personality of the graduate and developing his ability to collect, analyze and conclude, and his ability to solve health problems in</p>	<p>1)The ability to solve society's health problems in scientific and humane ways. Honesty and confidentiality in interaction with patients, their families and society.</p> <p>The ability to communicate effectively when:</p> <ul style="list-style-type: none"> * Taking or giving information. * Negotiating or consulting * Counseling or giving advice. 	<p>Developing the Faculty role to create attractive educational environment and preparing efficient physicians according to the comprehensive quality criterion by applying the following steps:</p> <p>-Developing and updating all programs and courses at the Faculty to match with the modern</p>	<p>Graduated General Practitioners within few years of graduation will be able to:</p> <ol style="list-style-type: none"> 1. Formulate and apply safe and effective management plans for major diseases and conditions 2. Communicate effect 	<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> <ul style="list-style-type: none"> • In different clinical and crisis situations, attain the power of management, skill and confidence necessary to perform professional duties, 	<p>To deliver ambitious educational programmes that both inspire and prepare our graduate for excellence in practice and for leadership roles in tomorrow's healthcare.</p> <p>1.To conduct high quality translational and clinical research in areas of national</p>	<p>1- Graduating competent doctors who possess the basic medical knowledge and skills necessary to practice medicine in accordance with international standards, capable of continuous self-learning and prepared for professional development.</p> <p>2- Develop and develop the educational, training, administrative and leadership skills of</p>

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University	Hadramout University - Yemen	Taiz university -Yemen	Benha University Egypt	Jordan University of Science and Technology (JUST)-Jordan	TAHRAN UNIVERSITY- IRAN	DUBLIN UNIVERSITY- IRELAND-UK	21 Sep. University
	<p>his community, think independently and take the appropriate decision.</p> <p>3. Development and development of graduate doctors through practical practice, postgraduate programs and continuing education.</p> <p>4. Encouraging and directing scientific research towards health problems in the region and harnessing its results to the relevant authorities to take the appropriate decision.</p> <p>5. Active participation by the</p>	<p>2) Finding an advanced medical education center.</p> <p>3) Preparing a national faculty capable of participating in solving the health problems of the community.</p> <p>4) Find specialized research centers to study health problems in the community and participate in finding solutions to them.</p>	<p>medical requirements;</p> <p>-Providing and developing the required infrastructure for educational process to provide the best conditions for students;</p> <p>-Continuing work on completing imperfection points at educational and administrative charts to achieve better rates of performance;</p> <p>-Developing abilities and skills of the Faculty members' staff</p>	<p>ively and sensitively with patients and patients' families, embodying ethical and professional standards.</p> <p>3. Communicate and collaborate effectively with members of healthcare teams to provide optimal, interprofessional patient-</p>	<p>as expected from a responsible physician</p> <ul style="list-style-type: none"> • 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. • Take the necessary steps to achieve the diagnosis and management of the 	<p>significance and global importance.</p> <p>2.To innovate in teaching and assessment, undertaking comprehensive education research to improve our programmes and inform national policy.</p> <p>4.To attract and retain staff who are driven by the pursuit of excellence in academic and clinical practice and provide them with career progression</p>	<p>the teaching staff and administrators in the program.</p> <p>3- Developing the human aspect and a sense of duty towards the patient and society among medical students.</p> <p>4- Develop communication, leadership and scientific research skills among medical students</p> <p>5- Enhancing the principles of professional, ethical and national responsibility among students.</p> <p>6- Contribute to raising the reputation of medical education and health care locally and regionally.</p>

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	<p>program students and its academic team in providing and developing direct health services with the aim of social development.</p> <p>6. Planting the authentic human values and achievements of the Arab and Islamic civilization in the graduate's soul as an incentive to work in building the future, developing spirit and belief in the future of the Arab nation to make it capable of facing and overcoming problems in society.</p>		<p>and administrative structure by using the scientific modern technology of administration;</p> <p>-Providing and supporting students' activities at the Faculty by introducing the required financial support for doing it;</p> <p>-Updating and developing the applied systems and techniques of assessment at the Faculty to match with modern trends at medicine and</p>	<p>centered care.</p> <p>4. Commit to lifelong learning to keep pace with advances in healthcare practices and technologies.</p> <p>5. Incorporate the social determinants of health into healthcare practices.</p> <p>6. Lead, participate, and support preventive</p>	<p>patient and manage his or her complaint appropriately.</p> <ul style="list-style-type: none"> • approach algorithmically <p>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>opportunities.</p> <p>5.To attract a diverse cohort of students and to offer elective opportunities around the world so that our graduates emerge competitive for careers in healthcare leadership roles and understand global perspectives.</p> <p>6.To create graduates with the knowledge, skills and attitudes necessary for professional practice.</p>	<p>7- Dissemination and promotion of the concepts of quality assurance among employees and students.</p> <p>8- Developing the level of health awareness in the local community through health care and education programs.</p>

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University	Hadramout University - Yemen	Taiz university -Yemen	Benha University Egypt	Jordan University of Science and Technology (JUST)-Jordan	TAHRAN UNIVERSITY- IRAN	DUBLIN UNIVERSITY- IRELAND-UK	21 Sep. University
			<p>teaching</p> <p>-Updating and developing scientific research and Postgraduate systems to make the Faculty distinguished at scientific research on the local, regional and global level by applying the following steps:</p> <p>-To set down a plan of scientific research at the Faculty, the plan should be made by all departments and specialties at the Faculty from one hand, and other local and regional</p>	<p>programs, management protocols, and research projects in their local and regional communities.</p> <p>7. Appraise and comprehend effectively the health needs of their local and regional communities.</p> <p>8. Facilitate the communication</p>		<p>7.To build an enduring sense of community among our students, staff and alumni.</p> <p>8.To support our education and research endeavours on campus by strengthening School infrastructure across our clinical training networks.</p> <p>9.To maintain a strong effective organisation with resource allocation that is consistent with our School's</p>	

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University	Hadramout University - Yemen	Taiz university -Yemen	Benha University Egypt	Jordan University of Science and Technology (JUST)-Jordan	TAHRAN UNIVERSITY- IRAN	DUBLIN UNIVERSITY- IRELAND-UK	21 Sep. University
			<p>organizations on the other hand;</p> <p>-Updating regulation of Postgraduate stage at the Faculty to match with developed and modern techniques of teaching;</p> <p>-Encouraging international publishing of researches of the Faculty members' staff;</p> <p>-Identifying the financial resources of scientific research at the Faculty and to work on finding other</p>	<p>between local / international healthcare policymakers and the local community for an efficient, up-to-date, community-oriented medical service.</p>		<p>strategic priorities.</p> <p>10.To question continuously our assumptions and collect appropriate key performance data that supports informed decision-making and organisational development</p>	

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University	Hadramout University - Yemen	Taiz university -Yemen	Benha University Egypt	Jordan University of Science and Technology (JUST)-Jordan	TAHRAN UNIVERSITY- IRAN	DUBLIN UNIVERSITY- IRELAND-UK	21 Sep. University
			<p>financial resources.</p> <p>-Activating the Faculty role and its participation at continuous development of Community and Environment by applying the following step;</p> <p>-Setting down a plan for achieving continuous development of external sectors which relate to the Faculty</p>				
Program ILOs							<p>LEARNING OUTCOMES: A-KNOWLEDGE AND UNDERSTANDING:</p>

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							<p>Upon successful completion of an undergraduate medical education program, the graduates will be able to:</p> <p>A1. Describe the normal structure of the human body at molecular, cellular and bio chemical, in order to maintain boy homeostasis.</p> <p>A2. Recognize the normal human growth and development in all stages of human development.</p> <p>A3. Recognize any alteration or abnormality in the function and structure of the human body.</p> <p>A4. Identify the</p>

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							<p>etiology, pathogenesis, clinical manifestation, diagnosis differential diagnosis and complication of different communicable and non-communicable disease at the different stages of human's life.</p> <p>A5. Conduct different investigations and interpret the results with the Integration of the history findings and physical examination.</p> <p>A6. Recognize the principles of epidemiology, prevention and control of communicable and</p>

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							<p>non-communicable diseases.</p> <p>A7. Efficiently use the principles of appropriate and cost-effective pharmacological and non-pharmacological therapies</p> <p>A8. Recognize the psychological, social, and cultural aspects of healthcare</p> <p>A9. Demonstrate knowledge and understanding of legal, medical ethics and patient's and human rights related to medical practices.</p> <p>A10. Apply the principles of history taking and physical examination with consideration to patients' mental status, social and</p>

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							<p>cultural background.</p> <p>A11. Demonstrate an understanding of medical or health research and basic statistics.</p> <p>A12. Describe drug actions: therapeutics and pharmacokinetics; side effects and interactions, including multiple treatments, long term conditions and non-prescribed medication; and effects on the population.</p> <p>B- COGNITIVE /INTELLECTUAL SKILLS: Upon successful completion of an undergraduate</p>

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							<p>medical education program, the graduates will be able to:</p> <p>B1. Analyze data obtained from medical history, physical examination and Para clinical investigations to reach a final diagnosis and plan the management of patients.</p> <p>B1. Implement critical thinking and evidence-based medicine in problem solving in the diagnosis and patients' management.</p> <p>B2. Design appropriate management plans for common medical conditions and</p>

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							<p>emergencies. B3. Select appropriate investigations, analyze, and solve problems with minimal guidance. B4. Appraise and prioritize serious medical conditions and common emergencies. B5. Recognize professional limitations and seek advice when needed.</p> <p>C- PRACTICAL AND PROFESSIONAL SKILLS: Upon successful completion of an undergraduate medical education program, the graduates will be</p>

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							<p>able to:</p> <p>C1. Perform patient centered history taking, physical examination and investigations in all conditions.</p> <p>C2. Perform and record thorough mental and physical examination according to different ages and sexes.</p> <p>C3. Identify the patient problems and formulate a list of differential provisional diagnoses.</p> <p>C4. Identify serious and urgent conditions and tailor management according to expected course.</p> <p>C5. Choose the appropriate</p>

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							<p>investigations relevant to differential diagnoses taking in consideration the availability and cost-effectiveness.</p> <p>C6. Interpret the investigation results and integrate them with the clinical data to reach the appropriate diagnosis.</p> <p>C7. Construct appropriate management plans and evaluate their effectiveness and outcomes.</p> <p>C8. Manage life threatening conditions emergency care and basic life support.</p> <p>C9. Provide Health education, counseling and</p>

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							<p>appropriate preventive services.</p> <p>C10. Prescribe and safely administer appropriate drugs taking in consideration side effects and interactions, including multiple treatments, long-term conditions.</p> <p>C11. Perform diagnostic and interventional procedures in a competent and safe way (Annex 1 & 2).</p> <p>C12. Record and keep concise and complete medical records according to legal and administrative framework.</p> <p>C13. Apply contro measures to prevent</p>

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							<p>the spread of infection.</p> <p>C14. Discuss safety aspects with the patients and their families before any procedure or intervention and take informed consent.</p> <p>C15. Involve the patients and their families in making management decisions.</p> <p>C16. Provide care for patients in end-of-life situations offering support to their families</p> <p>C17. Adopt professional behavior in all aspects of practice, showing honesty, commitment, integrity and compassion and</p>

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							<p>making the care of the patient the first concern. C18. Adhere to the professional standards and rules of the profession. C19. Demonstrate respect to different cultures, religions and values and manage all patients equally regardless of their backgrounds. C20. Respect confidentiality and privacy of the patients. C21. Respect seniority, consult and refer the patient at appropriate stages. C22. Apply research, and statistical methods for identification, analyzing &</p>

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							<p>resolution of health problems for further planning.</p> <p>D – GENERAL / TRANSFERABLE SKILLS: Upon successful completion of an undergraduate medical education program, the graduates will be able to:</p> <p>D1. Communicate clearly and effectively with patients, their families, health care professionals and the community through verbal, written or digital methods.</p> <p>D2. Respect the different cultural beliefs and values in the community they</p>

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							<p>serve and ensure the privacy of patients' information.</p> <p>D3. Work efficiently within a multidisciplinary team and demonstrate ability to build positive working relationships.</p> <p>D4. Recognize and respect the contributions of other health care professions.</p> <p>D5. Develop a lifelong interest to continue learning, improve skills, acquire, and apply up-to-date knowledge and new skills.</p> <p>D6. Utilize health information technology and</p>

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							<p>present information clearly in written, electronic and oral forms.</p> <p>D7. Use written and electronic records and other health information for the benefit of the patients.</p> <p>D8. Manage time and resources, set priorities and deal with stress in all situations.</p>

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2- Mapping of Program Mission with the University, Faculty and Department Missions:

University Mission	Faculty of Medicine and Health Sciences Mission	Department of Medicine Mission	Medicine 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>-----</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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3- Mapping of Program Objectives with the University, Faculty and Department Objectives:

University Objectives	Faculty of Medicine and Health Sciences Objectives	Department of Medicine Objectives	Medicine Program Objectives
<p>1. Ensuring the application of quality standards and setting standards of excellence in medical and applied sciences, scientific research and community service.</p> <p>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.</p> <p>3. Attracting, employing and retaining scholars, cadres and highly specialized talents to gain minds and reverse the</p>	<p>1. Preparing and rehabilitating distinguished medical cadres specialized with high efficiency in the medical field.</p> <p>2. Providing students with basic knowledge of biomedical and clinical sciences in order to apply that knowledge to deal with complex clinical cases.</p> <p>3. Providing students with basic knowledge to understand the impact of different stages of life, gender differences, different lifestyles, psychological, social and epidemiological genetic factors and their impact on the spread of diseases and ways to</p>		<p>14. Graduating competent doctors who possess the basic medical knowledge and skills necessary to practice medicine in accordance with international standards, capable of continuous self-learning and prepared for professional development.</p> <p>15. Develop and develop the educational, training, administrative and leadership skills of the teaching staff and administrators in the program.</p> <p>16. Developing the human aspect and a sense of duty</p>

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University Objectives	Faculty of Medicine and Health Sciences Objectives	Department of Medicine Objectives	Medicine Program Objectives
<p>trend of “brain drain” in a way that promotes and ensures the creation of thinkers, businessmen and good citizens.</p> <p>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.</p> <p>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</p>	<p>prevent them.</p> <p>4. Enable students to know the basic concepts of preventive and rehabilitation applications and diagnose acute medical problems so that they are able to apply the concepts in clinical practice.</p> <p>5. Providing students with the ability to evaluate patients and manage their health problems by completing a comprehensive medical history.</p> <p>6. Providing students with the scientific method in medical diagnosis, treatment and medical analysis so that they are able to use them in solving patients' problems.</p> <p>7. Providing students with</p>		<p>towards the patient and society among medical students.</p> <p>17. Develop communication, leadership and scientific research skills among medical students</p> <p>18. Enhancing the principles of professional, ethical and national responsibility among students.</p> <p>19. Contribute to raising the reputation of medical education and health care locally and regionally.</p> <p>20. Dissemination and promotion of the concepts of quality assurance among employees and students.</p> <p>8- Developing the level of health awareness in the local community through health care</p>

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University Objectives	Faculty of Medicine and Health Sciences Objectives	Department of Medicine Objectives	Medicine Program Objectives
	<p>communication skills with patients and enabling them to acquire field examination skills and the proper use of diagnostic tools and means.</p> <p>8. Practicing appropriate professional behavior with patients and colleagues, adhering to professional standards of ethical behavior and working in harmony with one-team promotions.</p> <p>9. Activating the partnership with civil society institutions and relevant authorities locally, regionally and internationally to provide a stimulating and supportive educational environment in a manner that serves to enhance public health efforts and community safety.</p>		<p>and education programs.</p>

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University Objectives	Faculty of Medicine and Health Sciences Objectives	Department of Medicine Objectives	Medicine Program Objectives
	<p>10. 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>11. Continuously developing and updating study plans and teaching methods by keeping pace with modern scientific developments.</p>		

Annex- 6, Alignment of Program Intended Learning Outcomes (PILOs) to the Faculty Objective

Program PILOs	Faculty Objectives										
	FObj1	FObj2	FObj3	FObj4	FObj5	FObj6	FObj7	FObj8	FObj9	FObj10	FObj11
A1	*	*	*	*	*	*	*	*	*	*	*
A2	*	*	*	*	*	*	*				
A3			*	*	*	*	*	*	*	*	
A4	*	*	*								
A5	*	*	*	*	*	*	*	*			
A6	*	*									
B1	*	*	*	*	*	*	*	*	*	*	*
B2	*	*	*	*	*	*	*	*	*	*	*
B3	*	*	*	*							
B4	*	*	*	*	*	*	*	*	*		
B5					*	*	*	*	*	*	*
C1				*	*	*	*	*	*	*	*
C2				*	*	*	*	*	*	*	*
C3				*	*	*	*	*	*	*	*
C4				*	*	*	*	*	*	*	*
C5				*	*	*	*	*	*	*	*
C6				*	*	*	*	*	*	*	*
C7					*	*	*	*	*	*	*
D1						*	*	*	*	*	*
D2						*	*	*	*	*	*

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Program PILOs	Faculty Objectives										
	FObj1	FObj2	FObj3	FObj4	FObj5	FObj6	FObj7	FObj8	FObj9	FObj10	FObj11
D3						*	*	*	*	*	*
D4						*	*	*	*	*	*
D5						*	*	*	*	*	*

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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	PObj8
A1	*	*	*	*	*	*	*	
A2		*	*	*				
A3					*	*		
A4				*	*	*	*	
A5				*	*	*	*	
A6			*	*	*	*	*	*
B1	*	*	*	*	*	*	*	*
B2	*	*	*	*				*
B3		*	*	*	*	*		
B4			*	*	*	*	*	*
B5					*	*	*	
C1	*	*	*	*	*	*	*	*
C2	*	*	*	*	*	*	*	
C3	*	*	*	*	*	*	*	*
C4	*	*	*	*	*	*	*	*
C5	*	*	*	*	*	*	*	*
C6	*	*	*	*	*	*	*	
C7	*	*	*	*	*	*	*	*
D1	*	*	*	*	*	*	*	*
D2	*	*	*					
D3	*	*	*	*	*			*
D4			*	*	*	*	*	
D5			*	*	*	*	*	

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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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Medicine Program Specifications

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

--	Similar Accredited Programs							Un. Taiz PILOs
	Un. Taiz PILOs	Un. S.T. PILOs	Un. Had. PILOs	Un. Ben. PILOs	Un. Jor. PILOs	Un. Teh. PILOs	Un. Dub. PILOs	
A1	*	*	*	*	*	*	*	*
A2	*	*	*	*	*	*	*	*
A3		*	*					
A4	*			*				*
A5			*	*				
A6	*	*	*	*	*			*
B1	*	*	*	*	*	*	*	*
B2	*	*	*	*	*	*	*	*
B3	*	*	*					*
B4		*	*	*				
B5				*	*	*	*	
C1	*	*	*	*	*	*	*	*
C2	*	*	*	*	*	*	*	*
C3	*	*	*	*	*	*	*	*
C4	*	*	*	*	*	*	*	*
C5	*	*	*	*	*	*	*	*
C6	*	*	*	*	*	*	*	*
C7				*	*	*	*	
D1	*	*	*	*	*	*	*	*

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--	Similar Accredited Programs							Un. Taiz PILOs
	Un. Taiz PILOs	Un. S.T. PILOs	Un. Had. PILOs	Un. Ben. PILOs	Un. Jor. PILOs	Un. Teh. PILOs	Un. Dub. PILOs	
D2	*	*	*	*	*	*	*	*
D3	*	*	*					*
D4	*	*	*					*
D5	*	*	*					*

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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, May 2018 If Any

Program PILOs	NARS (Yemen), ILOs for Undergraduate Medical Programs
A1	✓
A2	✓
A3	✓
A4	✓
A5	✓
A6	✓
B1	✓
B2	✓
B3	✓
B4	✓
B5	✓
C1	✓
C2	✓
C3	✓
C4	✓
C5	✓
C6	✓
C7	✓
D1	✓
D2	✓
D3	✓
D4	✓
D5	✓

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1- National Academic Reference Standards For Medicine Programs, Yemen, May 2018: If Any??

I. GRADUATE ATTRIBUTES

Upon successful completion of an undergraduate engineering program, the graduates will be able to:

1. Demonstrate sound knowledge, skills, and attitudes required for patients' care.
2. Provide health care services at different levels, applying patient safety and infection control measures during practice
3. Work independently and/or in a team and collaborate effectively with other health care professionals
4. Recognize economic, social, psychological, environmental and cultural factors that interfere with health.
5. Behave ethically and professionally when dealing with patients, their families and other health care professionals
6. Communicate effectively with patients, their families and other health care professionals
7. Apply diagnostic, critical thinking, and problem-solving skills necessary for proper evaluation and management of common medical conditions and emergencies.
8. Recognize own professional limits and seek appropriate consultation from other health care professionals when indicated.
9. Establish the foundations of lifelong learning and research, with commitment to continuous selfimprovement.

II. LEARNING OUTCOMES

A. Knowledge and Understanding

Upon successful completion of the undergraduate engineering education programs, the graduates will be able to demonstrate understanding of:

- A1. Describe the normal structure of the human body at molecular, cellular and biochemical, in order to maintain boy homeostasis.
- A2. Recognize the normal human growth and development in all stages of human development.
- A3. Recognize any alteration or abnormality in the function and structure of the human body.

- A4. Identify the etiology, pathogenesis, clinical manifestation, diagnosis differential diagnosis and complication of different communicable and non-communicable disease at the different stages of humans life.
- A5. Conduct different investigations and interpret the results with the Integration of the history findings and physical examination.
- A6. Recognize the principles of epidemiology, prevention and control of communicable and non-communicable diseases.
- A7. Efficiently use the principles of appropriate and cost-effective pharmacological and non-pharmacological therapies.*
- A8. Recognize the psychological, social, and cultural aspects of healthcare.
- A9. Demonstrate knowledge and understanding of legal, medical ethics and patient's and human rights related to medical practices.
- A10. Apply the principles of history taking and physical examination with consideration to patients' mental status, social and cultural background.
- A11. Demonstrate an understanding of medical or health research and basic statistics.
- A12. Describe drug actions: therapeutics and pharmacokinetics; side effects and interactions, including multiple treatments, long term conditions and non-prescribed medication; and effects on the population.

7 Undergraduate Medical Programs

B-COGNITIVE/INTELLECTUAL SKILLS:

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

- B1. Analyze data obtained from medical history, physical examination and Para clinical investigations to reach a final diagnosis and plan the management of patients.
- B1. Implement critical thinking and evidence-based medicine in problem solving in the diagnosis and patients' management.
- B1. Design appropriate management plans for common medical conditions and emergencies.

- B1. Select appropriate investigations, analyze, and solve problems with minimal guidance.
- B1. Appraise and prioritize serious medical conditions and common emergencies.
- B1. Recognize professional limitations and seek advice when needed.

C- PRACTICAL AND PROFESSIONAL SKILLS:

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

- C1. Perform patient centered history taking, physical examination and investigations in all conditions.
- C2. Perform and record thorough mental and physical examination according to different ages and sexes.
- C3. Identify the patient problems and formulate a list of differential provisional diagnoses.
- C4. Identify serious and urgent conditions and tailor management according to expected course.
- C5. Choose the appropriate investigations relevant to differential diagnoses taking in consideration the availability and cost-effectiveness.
- C6. Interpret the investigation results and integrate them with the clinical data to reach the appropriate diagnosis.
- C7. Construct appropriate management plans and evaluate their effectiveness and outcomes.
- C8. Manage life threatening conditions emergency care and basic life support.
- C9. Provide Health education, counseling and appropriate preventive services.
- C10. Prescribe and safely administer appropriate drugs taking in consideration side effects and interactions, including multiple treatments, long-term conditions.
- C11. Perform diagnostic and interventional procedures in a competent and safe way (Annex 1 & 2)
- C12. Record and keep concise and complete medical records according to legal and administrative framework.
- C13. Apply control measures to prevent the spread of infection.
- C14. Discuss safety aspects with the patients and their families before any procedure or intervention and take informed consent.
- C15. Involve the patients and their families in making management decisions.

- C16. Provide care for patients in end-of-life situations offering support to their families
 - C17. Adopt professional behavior in all aspects of practice, showing honesty, commitment, integrity and compassion and making the care of the patient the first concern.
 - C18. Adhere to the professional standards and rules of the profession.
 - C19. Demonstrate respect to different cultures, religions and values and manage all patients equally regardless of their backgrounds.
 - C20. Respect confidentiality and privacy of the patients.
 - C21. Respect seniority, consult and refer the patient at appropriate stages.
 - C22. Apply research, and statistical methods for identification, analyzing & resolution of health problems for further planning.
- 8 National Academic Reference Standards (NARS)

D – GENERAL / TRANSFERABLE SKILLS

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

- D1. Communicate clearly and effectively with patients, their families, health care professionals and the community through verbal, written or digital methods.
- D2. Respect the different cultural beliefs and values in the community they serve and ensure the privacy of patients' information.
- D3. Work efficiently within a multidisciplinary team and demonstrate ability to build positive working relationships.
- D4. Recognize and respect the contributions of other health care professions.
- D5. Develop a lifelong interest to continue learning, improve skills, acquire, and apply up-to-date knowledge and new skills.
- D6. Utilize health information technology and present information clearly in written, electronic and oral forms.
- D7. Use written and electronic records and other health information for the benefit of the patients.
- D8. Manage time and resources, set priorities and deal with stress in all situations.

Annex- 11, Survey of Credit Hours of Similar Programs

Benchmarking		21 SEPTEMBER. University	HADRAMOUT University	TAIZ University	BANHA University Egypt	JORDAN University Of Science and Technology	TEHRAN University	DUBLIN University				Average Cr. Hrs.
University Requirements	Credit Hours	16	14	16	0	16	20	0		--	--	14
	Percentage	0	6%	0	0	0	0	0	0	--%	--%	
University Electives	Credit Hours	0	0	0	0	9	0	0	0	--	--	---
	Percentage		0	0	0	0	0	0	0	--%	--%	
Faculty Requirements	Credit Hours	8	224	9	0	16		0		--	--	---
	Percentage	0	94%	0	0	0	0	0	0	--%	--%	
Faculty Electives	Credit Hours	0	0	0	0	0	0	0	0	--	--	---
	Percentage	0	0	0	0	0	0	0	0	--%	--%	
Department Requirements	Credit Hours	206	224	218	252	216	204	320		--	--	246
	Percentage	0	0	0	0	0	0	0	0	--%	--%	
Major Requirements	Credit Hours	0	0	0	0	0	0	0	0	--	--	---
	Percentage	0	0	0	0	0	0	0	0	--%	--%	
Major Electives	Credit Hours	0	0	0	0	0	0	50		--	--	---
	Percentage	0	0	0	0	0	0	0	0	--%	--%	
Practical Courses	Credit Hours	0	113	0	0	0	0	0	0	--	--	---
	Percentage	0	47%	0	0	0	0	0	0	--%	--%	
Training Courses	Credit Hours	0	0	0	0	0	74	0	0	--	--	---
	Percentage	0	0	0	0	0	0	0	0	--%	--%	
Project Courses	Credit Hours	6	0	6	0	0	0	0	0	--	--	---
	Percentage	6	0	2.40	0	0	0	0	0	0	0	
Total Credit Hours	Credit Hours	236	238	249	252	257	298	370				271

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

University		21 SEPTEMBER		HADRAMOUT UNI		TAIZ UNI		Benha UNI		JORDAN UNI OF SCI & TECH		TEHRAN UN		DUBLIN UNI		Average	
Total Courses and Cr. Hrs.		Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses
University Requirements	Compulsory	16	8	14	7	16	5	2	2	16	6	20	9	--	--	--	--
	Electives	--	--	--	--	--	--	--	--	9	3	--	--	--	--	--	--
Faculty Requirements	Compulsory	8	5	--	--	9	4	5/0		16	6	--	--	--	--	--	--
	Electives	--	--	--	--	--	--	14	7	--	--	--	--	--	--	--	--
Department Requirements	Compulsory	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Electives	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Major Requirements	Compulsory	206	50	224	34	218	65	190	39	216	42	204	69	320	49	--	--
	Electives	--	--	--	--	--	--	--	--	--	--	--	--	50	7	--	--
	Graduation Project	6	3	--	--	6	1	--	--	--	--	--	--	--	--	--	--
	Summer Training	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Training	--	--	--	--	--	--	--	--	--	--	74	12	--	--	--	--
	Practical Skills	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Courses		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total		Cr. Hrs.	Courses	Cr. Hrs.	courses	Cr. Hrs.	courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	Cr. Hrs.	Courses	271 / 62	
		236	74	238	41	249	74	252	48	257	57	298	92	370	56		

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

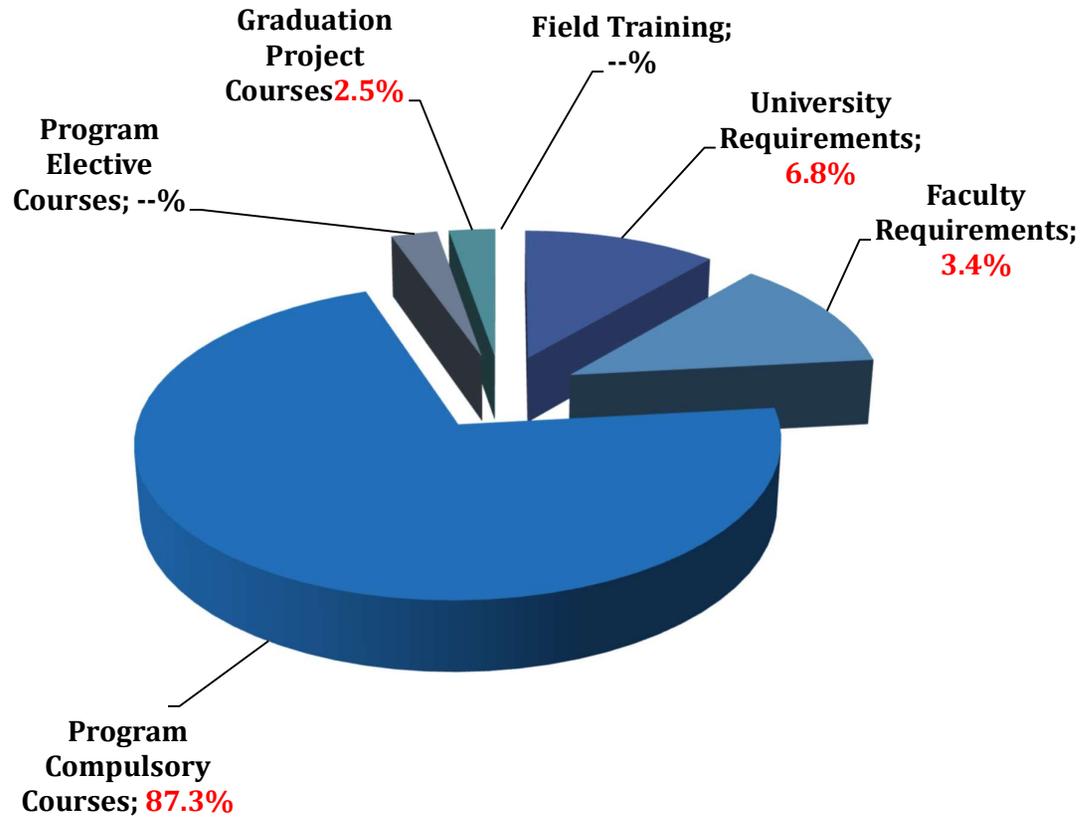
#	Themes	No. of Courses	Credit Hours	Percentage of Cr. Hrs.
1	University Requirements	8	16	6.8
2	Faculty Requirements	5	8	3.4
3	Program Compulsory Courses	58	206	87.3
4	Program Elective Courses	0	0	0
5	Graduation Project Courses	3	6	2.5
6	Field Training	0	0	0
Program Total		74	236	100%

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Annex- 14-Themes of Courses of Study and their Weightage



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Annex15 -, 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 (A21U 111)

University Requirement	Level	Semester	Course No.
A A21U	1	2	5

Medical Terminology(A21F125)

Faculty Requirement	Level	Semester	Course No.
A21F	1	2	3

Musculoskeletal System(A21P2214)

System Courses	Level	Semester	Course No.
A21P	2	2	14

Clinical Skills A21P3225

Major Requirement	Level	Semester	Course No.
A21P	3	2	25

Annex16 -, Survey of Course Names per Academic Semesters of Similar Programs

University	21 September University Current Program	Hadramout University - Yemen	Taiz university -Yemen	University of Science and Technology (YUST)-Yemen	Benha University Egypt	Jordan University of Science and Technology (JUST)-Jordan	TAHRAN UNIVERSITY-IRAN	DUBLIN UNIVERSITY-IRELAND-UK
No of Courses	74	41	74	53	54	57	87	58
Total Cr. Hrs.	236	238	249	280	206	257	220.35	331
Total Years	6	6	6	6	5	6	5.5-7	6
Level 1								
Semester	No	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name
1	1		Introduction to Medical Studies AND EMERGENCY	Introduction to study of medicine		Preparatory week	Principles of Health Services	Patents, Doctors & Healthcare
	2			Cell Biology			Biology Cell and Molecules +	

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University	21 September University Current Program	Hadramout University - Yemen	Taiz university -Yemen	University of Science and Technology (YUST)-Yemen	Benha University Egypt	Jordan University of Science and Technology (JUST)-Jordan	TAHRAN UNIVERSITY-IRAN	DUBLIN UNIVERSITY-IRELAND-UK	
	3	Medical Physics		Biophysics			Physics	Medical Physics	Physics in Medicine
	4	General & Organic Chemistry					Chemistry		Applied Intro. & Phys Chem
	5	English Language (101)	English Language (101)	English Language (1)	English Language (1)		English language	General English Language	
	6	Arabic Language (101)	Arabic Language (101)	Arabic Language (101)	Arabic language		Arabic Language		
	7	Islamic culture	Islamic culture	Islamic Education	Islamic Culture				
	8	national culture			national culture				
	9	community medicine 1	community medicine 1	Doctor and community	Introduction To community medicine & environment		community medicine		
	1	Anatomy+		Growth	Introduction	Principles of	General	Anatomy	

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University	21 September University Current Program	Hadramout University - Yemen	Taiz university -Yemen	University of Science and Technology (YUST)-Yemen	Benha University Egypt	Jordan University of Science and Technology (JUST)-Jordan	TAHRAN UNIVERSITY-IRAN	DUBLIN UNIVERSITY-IRELAND-UK
2	Embryology		,Devel. and Aging + G. Anatomy	n to Anatomy + introduction to Embryology	anatomy and embryology	Anatomy	of limbs	
2			Growth ,Devel. and Aging + G. Anatomy	Introduction to Anatomy + introduction to Embryology	Principles of anatomy and embryology	General embryology		
	General Physiology		General physiology	Introduction to Physiology	Principles of physiology	General physiology	Physiopathology	
	Cell Biology and Histology		Introduction to cytology and histology	Introduction to cytology and histology	Principles of histology	Cell Biology and tissue	Tissue, Development & Function	Basic Principles of Cell Biology

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University	21 September University Current Program	Hadramout University - Yemen	Taiz university -Yemen	University of Science and Technology (YUST)-Yemen	Benha University Egypt	Jordan University of Science and Technology (JUST)-Jordan	TAHRAN UNIVERSITY-IRAN	DUBLIN UNIVERSITY-IRELAND-UK
	4	Biochemistry		Biochemistry	Introduction to Biochemistry	Principles of biochem	General Biochemistry	Biochemistry
	5			Organic Chemistry and Biochemistry			Organic chemistry	Organic Chemistry
	6	Computer Skills	Introduction to computer science	Computer	Computer Skills		Introduction to computer science	Information Technology
	7	English Language (2)	English Language (2)	English language 2	English Language (2)		English language 2	
	8	Arab and Israeli conflict			Arab and Israeli conflict			
	9	Medical TERMINOL						Medical Terminology

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	OGY						gy1	
--		--	--	--	--	--		
Level 2								
Semester	No	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name	
1	1	Medical Microbiology	G.Microbiology I	General Microbiology	Principles of microbiology	General Microbiology	Microbiology % Virology	
	2	General Pathology	General pathology	G. Pathology I	Introduction to Pathology	Principles of pathology	General pathology	Advance Pathology 1 Disease mechanism% Oncology immunopathology
	3	Pharmacology		G. Pharmacology	Pharmacology	Principles of pharmacology	General Pharmacology	Pharmacology 1 pharmacology
	4	Community Medicine II (Biostatistics)	Community Medicine II	Research Methodology (CM)+	biostatistics	Research, evidence based and biostatistics	Research Methodology and biostatistics	Biostatistics % Clinical

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			Bio-statistics (CM)				Epidemiology	
	5	Community Medicine 3 Primary health care	Primary health care	Primary health care		Primary health care		
	6	Molecular Genetics				Molecular Genetics Theory	Medical Genetic	Genetics, perinatal and pediatric disease
	7	Medical parasitology						
	8	Nutrition	Nutrition & Nut. Chemistry	Nutrition Bio – chemistry	II. Nutrition		<i>Nutrition</i>	
--								
2	1	Musculo-skeletal system	Musculo-skeletal system%GIS	Musculoskeletal System	Musculoskeletal System	Musculoskeletal System		Locomotor biology and diseases
	2	Heamatolymphatic sys	HEAMATOLOGY	Heamatolymphatic sys	Hematolymphatic sys	Heamatolymphatic sys	Heamatolymphatic sys	Heamtological diseases
	3	Respiratory	Respiratory	Respiratory	Respirator	Respiratory	Respiratory	Respirator

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	system	system%CVS	system	y system	system	system	y System	disease	
	4	Immunology	immunology	immunology	Immunology	immunology	Immunology	Heamtology/immunological disease	
Level 3									
Semester	No	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name		
1	1	Cardiovascular System	Cardiovascular System%RS	Cardiovascular System	Cardiovascular System	II. Cardiovascular system	Cardiovascular System	Cardiovascular disease	
	2	Endocrine system	Endocrine system%US	Endocrine system	Endocrine system	I- Endocrine system	Endocrine system	Endocrine Systems	Endocrine disease
	3	Genito-Urinary System	URINARY SYS%END O SYS	Urinary and Male reprod . system	Genito-Urinary System	I. Urinary System II. Reproductive & breast	Genito-Urinary System	Urinary System % Reproductive System	Urinary disease
	4	Research		Research methodology		Research methodology		Research Methods &	

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	methodology						Computer		
--									
2	1	Gastro-intestinal system	Gastrointestinal system%MS S	Digestive System	Gastro - Intestinal System	I. Gastrointestinal system	Gastrointestinal system	Gastrointestinal diseases	
	2a	Central Nervous System (CNS)	Nervous System 1+2	Central Nervous System	Field Training (2)	Central Nervous System 1	Neuroscience (1)	Nervous System	Central nervous system disease
	2b	Special Sense + Anatomy of Head& Neck		Special Sense + Anatomy of Head& Neck	Anatomy of Head and Neck	Central Nervous System 2	Neuroscience (2)	Special Senses	Neuroscience
	3						Anatomy of Head and Neck	Anatomy of Head and Neck	
	4	communication skills			Communications Skills 1			Medical Ethics	

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	5	Clinical skills	Clinical Skills	Clinical skills		Clinical skills		
Level 4								
Semester	No	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name
1	1	General Medicine I	General Medicine	General Medicine+ physical examination and emergency	General Medicine	General Medicine	General Medicine(1)	General Medicine
	2	Neurology		neurology	Neurology & Psychiatry	Neurology & Psychiatry	neurology	Neurologic Diseases
	3	Psychiatry	Psychiatry	psychiatry		Neurology & Psychiatry		Psychiatry
	4	Diagnostic Radiology	Diagnostic Radiology	radiology	radiology	radiology	radiology	Radiology
	5			Laboratory Medicine				Laboratory Medicine
		--	--	--	--	--	--	--

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2	1	General Surgery 1	General Surgery	General surgery	General surgery	Surgery (General)	General Surgery(1)	General Surgery	Surgery
	2	Neurosurgery						Neurosurgery	
	3	Anesthesia		Anesthesia and intensive care	Anesthesia and intensive care	Anesthesia And trauma	Anesthesia	Anesthesiology	
	4	Emergency course						Emergency Medicine	
	5	Graduation Research		Graduation Project	Graduation Project	Graduation Project	Graduation Project	Thesis	
Level 5									
Semester	No	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name
1	1	Pediatric 1	Pediatric 1	Pediatrics (Block)	Pediatrics (Block)	pediatrics	pediatrics	Pediatrics Diseases 1	Pediatric 1
	2	Ear, Nose and Throat (ENT)	Ear, Nose and Throat (ENT)	Ear nose and throat	Ear & Nose & Throat	Ear nose and throat	Ear nose and throat	Otolaryngology	Otolaryngology

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	3	Ophthalmology	Ophthalmology	ophthalmology	ophthalmology	Basic Ophthalmology	ophthalmology	Ophthalmology	ophthalmology
	4	Orthopedics	Orthopedics	Orthopedics	Orthopedics	Orthopedics	Orthopedics	Orthopedics	
	5	Urology	Urology					Urology	
2	1	Obs/gyn	Obs/gyn		Gynaecology & Obstetric (Block)	Obs / Gyn	Obs / Gyn(1)	General Obstetrics and Gynecology	Obs/gyn
	2	Dermatology	Dermatology	dermatology	Dermatology	dermatology	dermatology	Dermatology	
	3	Family medicine	Family medicine						Family medicine
	4	Forensic& Clinical Toxicology	Forensic& Clinical Toxicology			Forensic& Clinical Toxicology		Forensic Medicine & Toxicology	Forensic& Clinical Toxicology
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Level 6									
Semester	No	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name	
1	1	General Medicine (2)	General Medicine (2)	General Medicine (2)	General Medicine (2)	General Medicine(1) +	General Medicine (2)	Internal Medicine	General Medicine (2)
	2	General surgery (2)	General surgery (2)	General surgery (2)	General surgery (2)	General surgery (1)	General surgery (2)		General surgery (2)
Semester	No	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name	Course Name	
2	1	Pediatrics (2)	Pediatrics (2)	Pediatrics (2)	Pediatrics (2)	Pediatrics (2)	Pediatrics 2	Pediatrics Diseases 2	Pediatrics Diseases 2
	2	OBS/GYN(2)	OBS/GYN	OBS/GYN	OBS/GYN	OBS/GYN	OBS/GYN 2		OBS/GYN 2

Annex-17, Comparison of Program Courses and Similar Programs Courses

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#	21 September University Current Program	Hadramout UNIVERSITY Y-Yemen				Taiz University - Yemen				University of Science and Technology (YUST)-Yemen				benha University Egypt				Jordan University of Science and Technology (JUST)-Jordan				Tehran University-IRAN				DUBSLIN UNIVERSITY-IRELAND UK													
		Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours																
			C	H	T	P		L	C	H	T		P	L	C	H		T	P	L	C		H	T	P	L	C	H	T	P	L								
19	Nutrition	3	0	1	2					Nutrition & Nut. Chemistry	3	0	1	2	Nutrition Bio-chemistry	2	0	0	2	II. Nutrition	4				II. Nutrition & Metabolism	3				Nutrition	3	1.5	1.5						
20	Arabic Language 2	2	0	0	2					Arabic Language (102)					Arabic Language 2	4								Arabic Language 2	3														
21	General Microbiology	3	0	1	2					General Microbiology	3	0	1	2	General Microbiology					Principles of microbiology	4				General Microbiology	3				Microbiology %	4	3		1					
22	General pathology	3	0	1	2	General pathology	1	0		General pathology	3	0	1	2	General pathology	3				Principles of pathology	4				General pathology	3				Advance Pathology 1	3	2	1		Disease mechanism % Oncology immunopathology	5			

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#	21 September University Current Program	Hadramout UNIVERSITY-Yemen					Taiz University - Yemen					University of Science and Technology (YUST)-Yemen					benha University Egypt					Jordan University of Science and Technology (JUST)-Jordan					Tehran University-IRAN					DUBSLIN UNIVERSITY-IRELAND UK														
		Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours																		
			C	H	T	P		L	C	H	T		P	L	C	H		T	P	L	C		H	T	P	L		C	H	T	P	L	C	H	T	P	L	C	H	T	P	L				
23	General Pharmacology	3	0	1	2						General Pharmacology	2	0	1	1	General Pharmacology	8					Principles of pharmacology	4					General Pharmacology	3					Pharmacology I	3	2	1			pharmacology	5					
24	Community Medicine II (Medical Biostatistics)	2	0	0	2	Community Medicine II	4					Biostatistics & Research Methodology	2	0	0	2	Biostatistics & Research Methodology	4					Research, evidence based and biostatistics	2					Biostatistics & Research Methodology	3					Biostatistics % Clinical Epidemiology	1	1				Epi, Biostats & Public Health	5				
25	General Molecular Genetics Theory	3	0	1	2																					Molecular Genetics Theory	3					Medical Genetic	2	2				Genetics, perinatal and pediatric disease	5							

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		Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours																				
			C	T	P	L		C	T	P	L		C	T	P	L		C	T	P	L		C	T	P	L		C	T	P	L	C	T	P	L													
28	Hae mato - lymphatic sys (HLS)	5	0	2	3	HEA MAT OLOGY	9					Hema tolym phatic sys	5	0	2	3	Hema tolym phatic sys	7					Heam atoly m phatic sys	5					Hema tolym phatic sys	6										Bloo Heamtol ogical diseases 2	5							
29	Respi rator y syste m (RS)	6	0	2	4	Respi rator y syste m%CVS	1					Respi rator y syste m	5	0	1	4	Respi rator y syste m	4					Respi rator y syste m	5					Respi rator y syste m	6					Respi rator y syste m	1	7	5	1	5	2	5	Respi rator y disease	5				
30	Imm unology	2	0	1	1						immu nology	2	0	1	1	immu nology	1	4									immu nology	3					Imm unology	3	2	5	5			Heamtol ogy/imm unologic al disease								

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#	21 September University Current Program	Hadramout UNIVERSITY Y-Yemen					Taiz University - Yemen					University of Science and Technology (YUST)-Yemen					benha University Egypt					Jordan University of Science and Technology (JUST)-Jordan					Tehran University-IRAN					DUBSLIN UNIVERSITY-IRELAND UK									
		Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours													
			C	T	P	L		C	T	P	L		C	T	P	L		C	T	P	L		C	T	P	L		C	T	P	L										
31	Cardiovascular System (CVS)	6	0	2	4	Cardiovascular System%RS	1				Cardiovascular System	9	0	2	7	Cardiovascular System					II. Cardiovascular system	5				Cardiovascular System	4	2	5	3.25	1	Cardiovascular System	5				Cardiovascular System	5			
32	Endocrine system (ES)	6	0	2	4	Endocrine system%US	1	0			Endocrine system	6	0	2	4	Endocrine system	1	4			I- Endocrine system	5				Endocrine system	1	7	5	1.5	.25	Endocrine system	8				Endocrine DISEASE	5			

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#	21 September University Current Program	Hadramout UNIVERSITY-Yemen					Taiz University - Yemen					University of Science and Technology (YUST)-Yemen					benha University Egypt					Jordan University of Science and Technology (JUST)-Jordan					Tehran University-IRAN					DUBSLIN UNIVERSITY-IRELAND UK																							
		Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours																											
			C	T	P	L		C	T	P	L		C	T	P	L		C	T	P	L		C	T	P	L		C	T	P	L	C	T	P	L																				
33	Genit o-Urinary System (GUS)		8	0	2	6	URINARY SYSTEM	1	0				Genit o-Urinary System	9	0	2	7	Genit o-Urinary System	8					I. rinary System Reproductive & breast	6					Genit o-Urinary System	1	7	5	1.5	2.5	REPRODUCTION SYSTEM	1	7	5	1.5	2.5	URINARY SYSTEM	1	7	5	Urinary disease					Urinary System				
34												++++					++++	1	0				III. Reproductive System	6					++++						++++	6																			

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#	21 September University Current Program	Hadramout UNIVERSITY Y-Yemen		Taiz University - Yemen		University of Science and Technology (YUST)-Yemen		benha University Egypt		Jordan University of Science and Technology (JUST)-Jordan		Tehran University-IRAN		DUBSLIN UNIVERSITY-IRELAND UK																																					
		Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours																																	
			C	H	T	P		L	C	H	T		P	L	C	H		T	P	L	C	H	T	P	L																										
35	Gastro-intestinal system (GIS)	8	0	2	6	Gastrointestinal system %MSS	1	2				Gastro-intestinal system	8	0	2	6	Gastro-intestinal system							I. Gastrointestinal system	5						Gastro-intestinal system	2	7	5	2	7	5	Gastrointestinal diseases	5												
36	Neuroscience (1) NS 1	8	0	2	6	Nervous System 1+2	8					Neuroscience (1)	8	0	2	6	Neuroscience (1)	1	3					Central Nervous System 1	8						Neuroscience (1)	4						Nervous System	3	2	5	2	7	5	Central nervous system disease 1	5					
37	Neuroscience (2) NS 2	4	0	1	3							Neuroscience (2)	4	0	1	3	Neuroscience (2)	1	0					Central Nervous System 2	6						Neuroscience (2)	4						Special Senses	1	2	5	1	2	5	Neuroscience	5					
38	Medical ethics	2	0	2	0							Medical Ethics &	2					Ethics	2													Ethics	2																		

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#	21 September University Current Program	Hadramout UNIVERSITY-Yemen					Taiz University - Yemen					University of Science and Technology (YUST)-Yemen					benha University Egypt					Jordan University of Science and Technology (JUST)-Jordan					Tehran University-IRAN					DUBSLIN UNIVERSITY-IRELAND UK								
		Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours												
			C	T	P	L		C	T	P	L		C	T	P	L		C	T	P	L		C	T	P	L		C	T	P	L									
	com muni catio n skills					Com muni catio ns Skills 1					Com muni catio ns Skills 1									Com muni catio ns Skills 1																				
49	Gene ral Medi cine 1	8	0	2	6	Gene ral Medi cine	8				Gene ral Medi cine	4	0	2	2	Gene ral Medi cine					Gene ral Medi cine	6				Gene ral Medi cine	9				INTE RNA L MEDI CINE	1	2			Medicine	1	0		
40	neur ology	3	0	1	2					neur ology	3	0	1	2	neur ology	6	0	3	3	Neuro logy & Psych iatry	3				neur ology	2	2	5		Neuro logic Disea ses	4	5	1	3						
41	Urolo gy	3	0	1	2	Urolo gy	4				urolo gy	3	0	1	2	urolo gy	5								urolo gy	2	2	5		Urolo gy	3	1	3							

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#	21 September University Current Program	Hadramout UNIVERSITY-Yemen					Taiz University - Yemen					University of Science and Technology (YUST)-Yemen					benha University Egypt					Jordan University of Science and Technology (JUST)-Jordan					Tehran University-IRAN					DUBSLIN UNIVERSITY-IRELAND UK														
		Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours																		
			C	H	T	P		L	C	H	T		P	L	C	H		T	P	L	C		H	T	P	L		C	H	T	P	L	C	H	T	P	L	C	H	T	P	L				
42	Diagnostic Radiology	2	0	1	1	Diagn ostic Radio logy	4					radiol ogy	2	0	1	1	radiol ogy	5					radiol ogy	3					radiol ogy	2	2	5			Radio logy	3			3							
43	Clinical skills	2	0	1	1						Clini cal skills	2	0	1	1	Clini cal skills	5										Clini cal skills																			
44	General Surgery 1	8	0	2	6	Gener al Surge ry	8					Gene ral Surge ry	4	0	2	2	Gene ral Surge ry						Surge ry (Gene ral)	6					Gene ral Surge ry						Gener al Surge ry	1	5	6			Surgery	1	0			
45	Neurosurgery	2	0	1	1												1	5														Neuro surge ry	1			1										

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		Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours																					
			C	H	T	P		L	C	H	T		P	L	C	H		T	P	L	C		H	T	P	L		C	H	T	P	L	C	H	T	P	L	C	H	T	P	L							
46	Anesthesia	3	0	1	2						Anesthesia	3	0	1	2	Anesthesia						Anesthesia And trauma	4					Anesthesia	2	2	5			Anesthesiology	1	5													
47	Emergency	2	0	1	1						Emergency course	3	0	1	2	Emergency course	5										Emergency course	2	2	5			Emergency Medicine	1	5														
48	Graduation Research	2	0	0	2																Graduation Project	2					Graduation Research	3																					
49	Community medicine 4	3	0	1	2						++++ ++					++++ ++											++++ ++						++++ ++																
50	Pediatric 1	8	0	2	6	Pediatric 1	8				Pediatric 1	4	0	2	2	Pediatric 1						pediatrics	7					Pediatric 1	9					Pediatric 1	1	2	4	9	Pediatric	1	0								

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		Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours						
			C	T	P	L		C	T	P	L		C	T	P	L		C	T	P	L		C	T	P	L		C	T	P	L			
51	Community medicine 5 (Health management)																																	
52	Ear, Nose and Throat (ENT)	3	0	1	2	4				3	0	1	2	1	2			4				2	2	5		3			3	OTOLARYNGOLOGY	5			
53	Ophthalmology	3	0	1	2	4				3	0	1	2	5				2				2	2	5		1	5		1	Basic Ophthalmology	5			
54	Orthopedics	5	0	2	3	4				5	0	2	3	5				4				2	2	5		5	2	3		orthopedics	5			

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		Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours																						
			C	H	T	P		L	C	H	T		P	L	C	H		T	P	L	C	H	T	P	L															
55	psychiatry	3	0	1	2	Psychiatry	4				psychiatry	3	0	1	2	psychiatry	5				Neurology & Psychiatry	3				psychiatry	4	5			psychiatry	4	5	1	3	PSYCHIATRY	1	0		
56	Obs/gyn l	8	0	2	6	Obs/gyn l	8				Obs/gyn	4	0	2	2	Obs/gyn	7				Obs / Gyn	7				Obs/gyn	9				Obs/gyn	1	0	4	6	Obs/gyn	1	0		
57	Dermatology	3	0	1	2	Dermatology	4				Dermatology	2	0	1	1	Dermatology	1	2			dermatology	3				Dermatology	2	2	5		Dermatology	3		3		Dermatology	5			
58	Family Medicine & Primary Health Care	3	0	1	2	Family Medicine & Primary Health Care	4				Family medicine	3	0	1	2	Family medicine	5					8				Family medicine	4	5			Family medicine	2		2		Family medicine	5			

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		Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours												
			C	T	P	L		C	T	P	L		C	T	P	L		C	T	P	L		C	T	P	L		C	T	P	L									
59	Graduation Research																																							
60	Forensic & Clinical Toxicology	3	0	1	2					Forensic & Clinical Toxicology	3	0	1	2	Forensic & Clinical Toxicology	4				Forensic & Clinical Toxicology	4				Forensic & Clinical Toxicology	2	2			Forensic & Clinical Toxicology	2		2		Forensic & Clinical Toxicology	5				
61	General Medicine (2)	9	0	2	7	General Medicine (2)	1				General Medicine (2)	4	0	2	2	General Medicine (2)					General Medicine (1) +	1	0			General Medicine (2)	9				General Medicine (2)	1	2			General Medicine (2)	1	0		
62	General surgery (2)	9	0	2	7	General surgery (2)	1				General surgery (2)	6	0	2	4	General surgery (2)	1	0			General surgery (1)	1	0			General surgery (2)	9				General surgery (2)	1	1			General surgery (2)	1	0		

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	Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours				Course	Course Hours									
		C	H	T	P		L	C	H	T		P	L	C	H		T	P	L	C		H	T	P	L		C	H	T	P		L	C	H	T	P	L				
63	Obs/gyn 2	9	0	2	7	Obs/gyn 2	9				Obs/gyn 2	6	0	2	4	Obs/gyn 2					Obs/gyn 2	3					Obs/gyn 2	9				Obs/gyn 2	1	0			Obs/gyn 2	1	0		
64	Ped2	9	0	2	7	Ped2	9				Ped2	6	0	2	4	Ped2	8				Ped2	3					Ped2	9				Ped2	1	2			Ped2	1	0		

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#	Level semester	Course Code	Courses	Lectures	Training	Lab hours	Credit hours	Program ILOs																											
								Knowledge and Understanding						Intellectual Skills					Professional and Practical Skills							Transferable Skills									
								A 1	A 2	A 3	A 4	A 5	A 6	B 1	B 2	B 3	B 4	B 5	C 1	C 2	C 3	C 4	C 5	C 6	C 7	D 1	D 2	D 3	D 4	D 5					
51	5/1	A21P5 139	Ear, Nose and Throat (ENT)	1		3	2 .5	E		A		A			E	E		A			A	A	A	A	A		A			A	A		A		
52	5/1	A21P5 142	Psychiatry	1		3	2 .5	E		A		A	A		E	E		A			A	A	A	A	A		A			E	A		A	A	
53	5/1	A21P41 27	Neurology	1		3	2 .5	E		A		A			E	E		A			A	A	A	A	A	A		A	A		A	A			
54	5/1	A21P5 140	Ophthalmolog y	1		3	2 .5	E		A		A			E	E		A			A	A	A	A	A		A			A	A		A	E	
55	5/1	A21P4 128	Urology	2		2	2 .5	E		A		A			E	E		A			A	A	A	A		A	A		A	A		A	E		
56	5/1	A21P5 244	Dermatology	2		2	3	E		A		A			E	E		A			A	A	A	A		A									
57	5/1	A21P5 245	Family Medicine & Primary Health Care	2		2	3	E		A		A			E	E		A			A	A	A	A	A	A		E	A		A				
58	5/2	A21P4 232	General III Medicine	2		6	5	E		A		A			E	E		A			A	A	A	A	A		A			E	A		A		
59	5/2	A21P5	General	2		6	5	I		A		A			E	E		A			A	A	A	A	A		A			E	A		A	E	

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***Introduction to Medical Studies Orientation (One week)**

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

Program Intended Learning Outcomes (PILOs):

A-KNOWLEDGE AND UNDERSTANDING:

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

- A1. Describe the normal structure and function of the human body at molecular, cellular and biochemical, in order to maintain body homeostasis.
- A2. Identify altered structure and function of humans in various diseases and conditions in relation to gender and age.
- A3. Describe the common diseases and life-threatening conditions as regards etiology, pathogenesis, clinical features, differential diagnosis and complications throughout the different age groups
- A4. Recognize patient's and human rights related to medical practices and medical ethics.
- A5. Describe drug actions: therapeutics and pharmacokinetics; side effects and interactions, including multiple treatments, long term conditions and non-prescribed medication; and effects on the population
- A6. Recognize the principles of epidemiology, prevention and control of communicable and non-communicable diseases.

B- COGNITIVE/INTELLECTUAL SKILLS:

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

- B1. Integrate basic and applied Medical Sciences with clinical data.
- B2. Analyze the results obtained from history, clinical examination and investigational data to reach a final diagnosis and

plan the management of patients.

B3. Design a management plan for common diseases and emergencies

B4. Combine clinical and investigational data with evidence based knowledge and skill of deductive reasoning for clinical problem solving.

B5. Select appropriate investigations for medical conditions

C- PRACTICAL AND PROFESSIONAL SKILLS:

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

C1. Perform patient centered history taking, physical examination and investigations in all conditions.

C2. Demonstrate respect to different cultures, religions and values and manage all patients equally regardless of their backgrounds.

C3. Perform diagnostic and interventional procedures in a competent and safe way

C4. Prescribe and safely administer appropriate drugs taking in consideration side effects and interactions, including multiple treatments, long-term conditions.

C5. Apply research, and statistical methods for identification, analyzing & resolution of health problems for further planning.

C6. Choose the appropriate investigations relevant to differential diagnoses taking in consideration the availability and cost-effectiveness..

C7. Discuss safety aspects with the patients and their families before any procedure or intervention and take informed consent.

D – GENERAL / TRANSFERABLE SKILLS

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

- D1. Communicate clearly and effectively with patients, their families, health care professionals and the community through verbal, written or digital methods.
- D2. Work effectively alone and within a multidisciplinary team
- D3. Evaluate numerical data by using simple statistical methods by effectively using of computer skills.
- D4. Develop a lifelong interest to continue learning, improve skills, acquire, and apply up-to-date knowledge and new skills.
- D5. Conduct research projects in the field of medicine with sense of social responsibility.

Annex- 19 CVs for the Preparation Committee

Attached separately.

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Preparation Committee:

1. Assoc.Prof. Dr Fuaad Al- khalli
2. Assoc.Prof. Dr Lutfi AL-MaKtari.
3. Assoc.Prof. Dr. Sadik Abdul-Moughni
4. Assis.Prof.Dr.Walied Al-Thahibi
5. Assoc.Prof. Dr.Noman Fairouz

Program Coordinator:

- 1.Assis. Prof. Dr.Salwa Al-Khomiri
2. Assis. Prof. Dr.Mohamed Al-Eriani
3. Mr. Abdulkareem Al-Akhali