



21 September University – for Medical and Applied Science



Academic Curriculum For Bachelor of **operation theatre technology** (Bs.OTT)

Program Specifications

Preparation Committee:

1. prof. Mujahed Maesar
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3. Dr. Fares Mahdi



2023م - 1444هـ

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Rector

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21 September University for Medical & Applied Sciences

1. Program Identification and General Information

Program Title and degree	Bachelor of operation theatre technology
institute responsible to grant degree	21 September University of Medical & Applied Sciences
institute responsible in program implementation	Faculty of Applied Medical Sciences
Departments	Operation theatre technology
Program type	Single
Language of study	English
Number of enrolled students	50- 70 student
Final award/s available	Bachelor of operation theatre technology
Mode of Delivery	Regular, minimum attendance 75%
Credited hours	135 hour
Location	On campus Faculty of Applied Medical Sciences
System of study	Semester system (full-time)
Time period of study in the program	The study of the program shall be of four years (8 semesters) duration as semester pattern of examination. Each academic year shall be two academic semesters and each semester is composed 16 weeks "including exams period". Followed by one year compulsory rotating internship.
Qualification for admission to the program	Secondary scientific education
Grade for admission to the program	As per the admission rules made by Ministry of higher education and scientific research-Yemen Republic
Other requirements	Satisfactory outcome of an interview evaluating background
Supervised by	Head of department
Prepared by	Members Academic assistant
Last date of accreditation:	2022- 2023

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2. Introduction

B.Sc. in Operating theatre/Surgical Technology is very important as a member of the surgical team in the operating room who works with the surgeon, anesthesiologist and other Operating Room Personnel is in delivering direct patient care before, during and after surgery by interacting with state of the art technology. Surgical technologists perform functions and tasks that provide a safe environment for surgical care and contribute to the efficiency of the operating team by supporting operating surgeons, nurses and others involved in diagnostic and operative procedures. Surgical technologists also work in other patient care service settings that call for special knowledge about asepsis, or about methods of making or keeping an

Environment antiseptic as in Central Sterile Supply department.

The program will also introduce theatre care research and evidence-based operative care practice at an early stage of the program. Emphasis will be placed on developing critical and reflective thinking, problem solving and social skills of the undergraduates, and also skills to address professional, moral and ethical issues

The Program is designed to further encourage the students to acquire knowledge and insights through self-directed learning and motivate innovative approaches

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B.Sc. Programs will be places at Level-I of Higher Education (University Education). This will be 1st cycle of University Education in Yemen's Universities.

These Programs shall be of four years and one year as internship

Professional Status and Future of practice

Care of the person requiring surgical intervention

- Participates as full member of the surgical team; take part in providing pre, intra and postoperative care
- Records and reports any pertinent information regarding patient and patient's families, including a determination of expectations and needs regarding the care provided in the surgical setting
- Communicates appropriate information to the patients and their families and the surgeon.
- Ensure the full inclusion of the patient or customer in the treatment, planning and decision-making.

Management and supervision

- Supervise the activity of supporting staff as appropriate.
- Manages Operating Room /Central Sterile Department activities assigned to him/her, including:
- Use and maintenance of instruments and equipment according to their standard Operating Procedures
- Maintenance of safe surgical environment in the Operating Room

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- Inventory and stock control
- Personnel matters
- Financial matters
- Appropriate record keeping of their practice
- Quality Assurance
- Identifies and introduces improved job methods for increasing efficiency
- Interacts with professional groups and, where appropriate, Governmental and non-governmental organizations

Community Services

- Makes a professional contribution to and take part in community rehabilitation programmers.

Research and Development

- Conducts continuing evaluation of his/her activities.
- Develops and actively participates in formal evaluation and research programs.
- Participates in scientific/professional meetings and contributes papers to scientific/professional journals.
- Use outcome measures to review state of the art procedures to determine best practice

Training and education

- Supervises and conducts the education and training of Operating Room Personnel's.

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- Lectures and demonstrates to colleagues in his/her profession and other professionals concerned with Operating Room/Surgical technology and to other interested groups.
- To take part in and contribute to the process of continuing professional development.
- Keeps up to date new technological developments in the field of Surgery and teaching techniques

Legal and Ethical Requirement

- Provide patient care, which complies with medical/legal requirements.
- Provide patient care within a recognized surgical code of ethics

Place of working

- These operative technologists have many employment choices. In addition to the hospital operating room, they may work in private specialty practices surgery as ophthalmology, neurosurgery, obstetrics and Orthopedics. Ambulatory surgery centers also employ surgical technologists, as do veterinarians for assistance in surgery.
- These Technologists may work as sales representatives or technical specialists for teaching Operating Room Staffs how to use new equipment's, such as orthopedic devices and implants.
- Management of Central Supply department of hospital and can advanced training in hospital administration.
- In the field of education, the experienced technologists Join as Lecturer in teaching Institutions to teach and train in a variety of settings.

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

University vision:

A Contemporary University with National Responsibility and Faith Identity

University Mission:

Leadership of transformation headway in managing and providing the health care with all partners via having the distinction standard in education and applied and medical researches that meet the needs of Yemeni people and regional influence.

University Core values:

- Leadership and Influence
- Work effectively with a time
- Excellence and Innovation

Special University Goals:

- 1- Ensuring the application of quality standards and having the distinction standards in medical and applied sciences, scientific research and community service.
- 2- Adopting student-cantered learning, the partnership with them for life, consolidating the principles of national responsibility and faith identity, looking after them and developing their capabilities after graduation and during work.
- 3- Attracting and Employing scientists, cadres and talents to gain minds and put an end for the “brain drain” in a way that promotes and ensures the availability of thinkers, businessmen and good citizens.
- 4- Developing the distinguished academic infrastructure continuously and establishing modern research and service centres with high efficiency that can give a real effect locally and regionally.

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- 5- Enhancing the university status as a preferred partner for local, regional and international partnership through implementing creative styles of education, exchanging researches and knowledge, and providing real and effective outcomes for developing professional practices to benefit from them locally and regionally.

4. Faculty of Medical Sciences Vision, Mission and Objectives

Vision of the Faculty

A contemporary college in the field of applied medical sciences and scientific research with national responsibility and faith identity

كلية معاصرة في مجال العلوم الطبية التطبيقية والبحث العلمي بمسؤولية وطنية وهوية إيمانية

Mission

Participate in leading the transformation for the better in providing high-quality diagnostic and health care services according to the latest techniques and contemporary technology through excellence in research and applied medical education to meet the needs of Yemeni society with its specificity and regional influence.

المشاركة في قيادة التحول نحو الأفضل في تقديم خدمات التشخيص والرعاية الصحية عالية الجودة وفق أحدث التقنيات والتكنولوجيا المعاصرة من خلال التميز في البحوث والتعليم الطبي التطبيقي لتلبية احتياجات المجتمع اليمني بخصائصه والتأثير الإقليمي.

Faculty Values:

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Faculty Values:

- | | |
|------------------------------------|------------------------|
| 1-Respect and Appreciation | 1. الاحترام والتقدير |
| 2 .Commitment and professionalism | 2. الالتزام والمهنية |
| 3 .Loyalty | 3. الإخلاص |
| 4 .Transparency and Accountability | 4. الشفافية والمساءلة |
| 5 .Social Responsibility | 5. المسؤولية المجتمعية |
| 6. National Identity | 6. الهوية الوطنية |

Aims of the Faculty

1. إعداد خريج قادر على التفاعل بإيجابية مع مشكلات المجتمع .
2. تزويد الطالب بمهارات حديثة وتزويده بثقافة الاعتماد على النفس في التجديد والتطوير والابتكار
3. استقطاب أعضاء هيئة تدريس متميزين والمحافظة عليهم.
4. توفير بيئة محفزة للتعليم والتعلم.
5. ضمان مستوى تعليمي وتدريبى بجودة عالية يكسب الخريج من خلاله المعرفة الأكاديمية الأساسية والتطبيقات العلمية والإكلينيكية بما يتناسب مع احتياجات سوق العمل .
6. استحداث برامج دراسات عليا وتعزيز البحث العلمي والعمل على تنمية قدرات أعضاء هيئة التدريس للإلمام بكل ما هو حديث في العملية التعليمية.

1. Preparing a graduate capable of interacting positively with community problems.
2. Providing the student with modern skills and providing him with a culture of self-reliance in innovation, development and innovation
3. Attracting and retaining distinguished faculty members.
4. Providing a stimulating environment for teaching and learning.

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5. Ensuring a high-quality level of education and training through which the graduate gains basic academic knowledge and scientific and clinical applications in a way that suits the needs of the labor market.
6. Creating postgraduate programs, enhancing scientific research, and working to develop the capabilities of faculty members to be familiar with everything that is modern in the educational process

5. Department Vision, Mission, and Objectives :

Vision of the Department

Excellence and pioneering in quality of educational and scientific research in operation theatre technology to contributing in serving the community.

Mission of the Department

Providing excellent educational and research service in field of operation technology and further advancement programs with academic accreditation requirements in order to produce graduates with professionally and scientifically high efficiency to be able to compete in the labor market, and contributing in developing and serving the community.

Aims of the Department

1. Provide the local and regional society with cadres specialized in the applied operation technology and qualified scientifically and ethically operation technologist
2. Provide an educational environment enhancing learning, innovation and excellence for its students and academic staff
3. Offer academic programs in operation care with high level to match the quality and academic accreditation standards.
4. Excellence in the operation technology staff of the department and continuous development for their knowledge and skills
5. Show awareness and excellence in the operation technology researches and oriented to serve the community
6. Enhance the quality system and its activities in the department.

6. Vision Mission & Aims of the program

Program vision

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Excellence and pioneering in quality of educational and scientific research in operation theatre technology to contributing in serving the community.

Program Mission

Providing excellent educational and research service in field of operation technology to match with academic accreditation requirements in order to produce with professionally and scientifically high efficiency to be able to compete in the labor market, and contributing in developing and serving the community.

Program Aims

On completion of Bachelor operation technology the graduates will be able to:

1. Play the role of a professional in health/research /welfare teams and willingness to work cooperatively within such teams.
2. Demonstrate skills necessary in care, handling, processing, and sterilization of surgical instruments, equipment and supplies and keep the environment
3. Manage Operation Theatres of different surgical specialties like General Surgery, Orthopedic Surgery, Gynecology, Ophthalmology, urology and obstetrics Surgery etc.
4. Apply administrative policies and procedures effectively in the performed duties and create professional impact as a capable Operation Theatre/Surgical Technologist
5. Recognize the procedures in the Operation Theatre and an understanding of scientific methods is acquired for reliability and validity of observations
6. plan and interpret a management program in Operation Theater with due regard to the patient's comfort and psychological support
7. Recognize the importance of teamwork and function as effective member/leader of the team.
8. Engage in critical thinking, reflection, and problem solving through evidence-based practice in multiple health care settings.
9. Professional, ethical, spiritual, and compassionate service within the health care setting.
10. Empower himself or herself and others through an integration of leadership, management, and teaching/learning skills in the health care environment

7. Program Standards & Benchmarks:

International reference point

- Bachelor Degree in operation technology. **Ramaiah University, Faculty of allied health sciences, India.**
- Bachelor of Science in operation technology. **Deemed to be university, Faculty of allied health sciences, Karnataka, India**
- 6. Bachelor of operation theatre technology , **Feisal Abad medical university , faculty of health science ,Islamabad, Pakistan**

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- Bachelor of operation theatre technology , **Shaheed Zulfiqar Ali Bhutto medical university , faculty of medical applied sciences** , Islamabad, Pakistan
- Bachelor of operation theatre technology. Allied college of health sciences. Khanwael. Pakistan
- Bachelor of operation theatre technology , **Central park college of allied health sciences** , Lahore , Pakistan
- Bachelor of operation theatre technology , **RIMT university school of health sciences** , Punjab , India
- Bachelor of operation theatre technology , **Alkarim university faculty of health sciences**, India
- Bachelor of operation theatre technology , **Father Muller college of allied sciences** ,India

Local Reference Points :

- No application

8. Graduate Attributes:

After successful completion of the programme, graduates of the Medical Process Technology program should be able to::

1 .Deep technical knowledge:. Graduates of these programs gain in-depth knowledge of medical instruments, techniques, and procedures used in operating rooms, including sterilization, infection control, and surgical equipment management.

2 .Communication skills:. Ability to communicate clearly and effectively with surgical staff and other health professionals, as well as empathy and the ability to support patients and their families.

3 .Accuracy and details:. Process technology requires close attention to detail and accuracy to ensure operations are performed safely and effectively, while minimizing risks.

4 .Ability to work under pressure:. Operating rooms are dynamic environments where conditions can change rapidly. Graduates must have the ability to work effectively under pressure and adapt to changing situations.

5 .Problem solving skills:. Ability to think critically and solve problems quickly and effectively, especially when faced with challenges or unexpected circumstances during surgical procedures.

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6 .Commitment to ethical and professional standards:. Graduates must have a strong understanding of and commitment to ethical and professional standards, including patient confidentiality and professional integrity.

7 .Continuous development and learning:. Commitment to continuous learning and professional development to stay up to date with the latest technologies and practices in the field of process technology.

These attributes are essential to the success of graduates of operational technology programs in their field, helping them provide safe and effective patient care in surgical environments.

9. . Program Intended Learning Outcomes (PILOs):
A- Basic Intended learning outcomes (ILOs)
ILOs of A. Knowledge and Understanding:
On successful completion of their program undergraduate students will be able to:
A1. Determine the appropriateness of the prescribed operative care plan and recommend modifications when indicated by data
A2. Seek educational opportunities to improve and maintain their professional competence and document their participation accurately
A3. Acquire knowledge on anatomical structure, physiological functions and perceptual aspects of the human body system.
A4. Acquire knowledge on the clinical aspects of operative care and implement the knowledge of anatomy, physiology and basic surgical operation technology concepts in clinical Setting
A5. Understand the general and operation and anesthesia pharmacology and the legislation relating to the supply of equipment and instruments that used operation room
B- ILOs of B. Cognitive/ Intellectual Skills:
C- On successful completion of the program undergraduate students will be able to:
B1. Analyze, and evaluate critically, diagnostic and therapeutic interventions
B2. Demonstrate critical skills for the evaluation of new concepts, procedures, techniques and products relevant to operation technology practice
B3. Demonstrate an investigative approach to academic subjects and clinical practice which integrates theory and practice to identify and solve problems.
B4. Assess a wide range of clinical situations with cases studies of pre, intra, post-operative care and management.
ILOs of C. Practical and Professional Skills:

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On successful completion of the program undergraduate students will be able to:
C1. Apply the principles of evidence-based practice
C2. Apply basic research skills to specific operation theatre problems in both group and individual settings.
C3. Prepare the equipment by order or protocol, ensure infection control and perform quality control procedures.
C4. Manage hazardous waste and follow biomedical waste disposal protocol
C.5 apply methods and techniques to the individual needs or capabilities of patients and considering patient's comfort and economic factors
C6. supervise the activity of supporting staff to ensure the teamwork and function as effective team leader by taking part in planning and implementation of Standard Operating Procedures
C7. Conduct appropriate health education and communication strategies in different settings using behavioral change models.
ILOs of D. General and Transferable Skills:
On successful completion of the program undergraduate students will be able to:
D1. Communicate clearly and effectively with hospital/institutional staff personnel
D2. Appreciate the utilization of data in operation theatre technology, social research and information technology.
D3. Awareness of the legal, ethical and commercial restraints and constraints within which surgical care operates
D4. Demonstrate excellent verbal and written communication skills.

Program PILOs	Program Objectives									
	PObj1	PObj2	PObj3	PObj4	PObj5	PObj6	PObj7	PObj8	PObj9	PObj10
A1						✓	✓			
A2									✓	✓
A3		✓								
B1							✓	✓		
B2		✓	✓		✓		✓	✓		
B3		✓	✓	✓			✓	✓		
C1								✓	✓	
C2							✓			✓
C3						✓	✓			
C4					✓	✓				
D1							✓		✓	✓
D2				✓		✓				
D3				✓			✓		✓	
D4									✓	

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Code / No	Curriculum Map:																						
	Subsidiary ILOs																						
	Knowledge & understanding skills						Intellectual skills				Practical & professional skills						General & Transferable skills						
	A 1	A 2	A 3	A 4	A 5	A 6	B 1	B 2	B 3	B 4	C 1	C 2	C 3	C 4	C 5	C 6	D1	D 2	D 3	D 4	D 5		
Arabic Language I					x		x			x													
Arabic Language II					x		x			x									X				
English Language I	x				x		x															x	
English language II	x						x									x				x			
Computer Skills		x	x				x				X												
Islamic Culture	x						x				X												
National Culture				x		x			x														
Arabic Israelian Conflict				x		x			x														
Internal medicine 1		x					x				X												
Medical Terminology		x	x				x		x														
Physiology 1	x			x			x	x				x											
Physiology 2	x				x		x				X		x				x	x	X				
Anatomy 1	x	x	x				x																
Anatomy 2	x		x												x		x	x					
Fundamental of Nursing 1	x		x	x			x	x							x								
Fundamental of Nursing 2		x					x				X									x			
Forensic Medicine & toxicology	x	x	x				x	x															
Professional Ethics	x		x				x				X								X				
Biochemistry	x			x	x		x		x														
Psychology			x					x			X	x			x	x			X				
Public Health			x					x			X												
Communication skills	x		x						x						x	x							
Microbiology and Parasitology	x		x	x			x		x														

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Pathology	x						x										x		X		x
General Pharmacology			x					x							x						
Specific pharmacology	x			x	x		x														
Health Management					x		x		x												
Basic Nutrition					x		x										x	x			x
Fundamental of infection control			x			x					X	x			x	x			X		
Biostatistics	x	x	x				x													x	
Research Methodology						x	x											x		x	
Graduation Project	x		x				x	x			X				x						
Operations Theater 1	x				x		x														
Operations Theater 2					x		x		x			x					x		X		x
General Surgery	x			x			x													x	
Pediatrics Surgery	x						x		x						x			x			x
Gyne & Obstetrics Surgery	x						x			x										x	
Plastic surgery			x			x			x		X	x			x	x			x		
ENT	x			x			x		x								x				
Neurosurgery	x		x		x		x	x						x	x						
Ophthalmic Surgery	x		x	x	x		x	x	x		X	x	x								x
Urology					x		x			x											x
Orthopedics			x	x	x		x	x	x		X	x	x								
Sterilization	x		x			x		x	x		X	x			x	x		x			x
Operations Technique 1	x						x		x												
Operations Technique 2	x	x	x	x				x	x												
Operations Technique 3	x	x	x				x													x	
Vascular surgery						x	x											x		x	
Clinical Practicum 1	x		x				x	x			X				x						

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Clinical Practicum 2	x				x		x												
Clinical Practicum 3					x		x		x			x				x		x	x
Clinical Practicum 4	x				x		x											x	
Clinical Practicum 5	x	x	x				x											x	
Clinical Practicum 6							x	x									x		x

1. Study Plan: (4+1)

The Bachelor of Science in operation theatre technology consists of **135** credit hours taught in **eight semesters** and **followed by 1 Year internship**. The total **credits hours is 135**.

13. Program structure

No	Requirements		No. of Courses	Credit Hours	Rational Weight %
1	University Requirements	Compulsory	7	14	0.10
		Elective	--	--	
3	Faculty Requirements	Compulsory	30	66	0.49
		Elective	--	--	
4	Department Requirements	Compulsory	16	55	0.41
		Elective	--	--	
5	Program Requirements	Compulsory			
		Elective		--	
7	Research Project	Compulsory	3 credit hours included in faculty requirements		
		Elective			
	Total:		53	135	100%

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14. University Requirements

Compulsory Courses

No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	T	P	Prerequisites, Co-requisites
1.	1/1	06.11.801	Arabic 101	لغة عربية 101	2	2			
2.	1/2	06.11.802	Arabic 102	لغة عربية 102	2	2			
3.	1/1	06.11.803	English 101	لغة انجليزية 101	2	2			
4.	1/2	06.11.804	English 102	لغة انجليزية 102	2	2			
5.	1/1	06.11.805	Islamic Culture	ثقافة اسلامية	2	2			
6	1/2	06.11.806	National Culture	ثقافة وطنية	2	2			
7	1/2	06.11.807	Arabic Israeli Conflict	الصراع العربي الاسرائيلي	2	2			
Total					14	14	0		

*** L= lecture ** T=tutorial/seminar, *** P= lab/workshop/training/clinical**

Elective Courses:

No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L*	T*	P*	Prerequisites, Co-requisites
Total									

14.2 Faculty Requirements

Compulsory Courses

No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	T	P	Prerequisites, Co-requisites
1	1/1	01 01 811	Anatomy and histology (1)	تشريح والانسجه 1	3	2	2		
2	1/1	04 01 813	Fundamental of Nursing (1)	اساسيات تمريض 1	3	2	2		

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3	1/1	05 01814	Medical ethics	اخلاقيات المهن الطبية	2	2			
4	1/1	04 01815	Medical terminology	مصطلحات طبية	2	2			
5	1/1	03 01 812	Biochemistry	كيمياء حيوية	2	2			
6	1/2	01 01 818	Anatomy and histology2	تشريح وانسجة 2	3	2	2		
7	1/2	01 01 819	physiology	علم وظائف الأعضاء	2	2			
8	1/2	05 01 817	communications skills	مهارات اتصال	2	2			
9	1/2	07 01 816	Computer Skills	مهارات حاسوب	3	2	2		
10	1/2	04 01 820	Fundamental of Nursing 2	اساسيات تمريض 2	3	2	2		
11	2/1	04 01 821	Fundamental of Infection Control	أساسيات التحكم بالعدوى	2	2			
12	2/1	02 01 822	Basic Pharmacology	اساسيات علم الادوية	2	2			
13	2/1	03 01 823	Microbiology and Parasitology	أحياء دقيقة وطفيليات	3	2	2		
14	2/1	01 02 842	Internal Medicine	طب باطنه	2	2	-		
15	2/2	01 01 825	Pathology	علم الأمراض	2	2			
16	2/2	02 01 827	Applied Pharmacology	ادوية تطبيقية	2	2			
17	2/2	05 01 826	Psychology	علم النفس	2	2			
18	2/2	01 02 843	General Surgery	جراحة عامة	2	2			
19	3/1	04 02 832	Public Health	الصحة عامة	2	2			
20	3/1	01 02 837	Gynecology and Obstetric Surgical	جراحة نساء وتوليد	2	2			
21	3/1	01 02844	Pediatrics Surgery	جراحه أطفال	2	2			
22	3/1	05 02 833	Biostatistics	الإحصاء الحيوي	2	2			
23	3/2	01 02 845	UROLOGY SURGRY	جراحه مسالك بوليه	2	2			
24	3/2	01 02 846	Orthopedic SURGRY	جراحة العظام	2	2			
25	3/2	01 02 847	Neurosurgery	جراحة مخ وأعصاب	2	2			
26	3/2	05 01 837	Scientific Research methodology	طرق البحث العلمي	2	2			
27	4/1	01 02 848	Vascular surgery	جراحة او عية دموية	2	2			
28	4/1	05 01 839	Health Administration and Quality Management	الإدارة الصحية وادارة الجودة	2	2			
29	4/2	01 02 849	ENT	جراحة أنف وأذن وحنجرة	2	2			

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30	4/2	01 02 850	Ophthalmic Surgery	جراحة عيون	2	2			
Total					30	66	64	12	

Elective Courses:

14.3. Department requirements

Compulsory Courses

No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	T	P	Prerequisites, Co-requisites
Total									

14. 4. Program Major

Compulsory Courses

No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hr s.	L	T	P	Prerequisites, Co-requisites
1	1/2	08 04 841	Introduction of operation Technology	مقدمه في تقنيه عمليات	2	2			
2	2/1	08 04 842	Operation Theater 1	غرف عمليات 1	3	2	2		
3	2/1	08 04 843	Basic of Sterilization	اساسيات التعقيم	3	2	2		
4	2/1	08 04 844	Clinical Practicum 1	التدريب الميداني 1	4			12	
5	2/2	08 04 845	introduction of Surgical Technology	مقدمة في تكنولوجيا الجراحة	2	2			
6	2/2	08 04 846	Operation Theater 2	غرف عمليات 2	4	2	4		
7	2/2	08 04 847	Clinical Practicum 2	التدريب الميداني 2	4			12	
8	3/1	08 04 848	Operations Technique 1	تقنيات عمليات 1	3	2	2		
9	3/1	08 04 849	Clinical Practicum 3	التدريب الميداني 3	4			12	
10	3/2	08 04 850	Operations Technique2	تقنيات عمليات 2	3	2	2		
11	3/2	08 04 851	Clinical Practicum 4	التدريب الميداني 4	4			12	
12	4/1	08 04 52	Operations Technique 3	تقنيات عمليات 3	3	2	2		

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13	4/1	08 04 53	Clinical Practicum 5	التدريب الميداني 5	4			12	
14	4/2	08 04 854	Graduate Research Project	مشروع بحث التخرج	3			9	
15	4/2	08 04 855	Operations Technique 4	تقنيات عمليات 4	3	2	2		
16	4/2	08 04 856	Clinical Practicum 6	التدريب الميداني 6	6			18	
Total					16	55	18	16	87
Field Training Courses (if any)									
No	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hr s.	L	T	P	Prerequisites, Co-requisites
1									
Total									
Research Project Courses									
No	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hr s.	L	T	P	Prerequisites, Co-requisites
1									
2									
Total									

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15. Study Plan.

Level1

Term 1								
No .	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	T	P	Prerequisites, Co-requisites
1	06 11 801	Arabic language 101	لغة عربية 101	2	2			
2	06 11 803	English Language101	لغة انجليزية 101	2	2			
3	06 11 805	Islamic Culture	ثقافة إسلامية	2	2			
4	01 01 811	Anatomy and histology I	تشريح وانسجة 1	3	2	2		
5	03 01 812	Biochemistry	كيمياء حيوية	2	2			
6	04 01 813	Fundamental of Nursing I	اساسيات تمريض 1	3	2	2		
7	05 01 814	Medical ethics	اخلاقيات المهن الطبية	2	2			
8	04 01 815	Medical Terminology	مصطلحات طبية	2	2			
Total				8	18	4		

Term 2								
No.	Level-Sem. Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	T	P	Prerequisites, Co-requisites
1	07 01 816	Computer Skills	مهارات حاسوب	3	2	2		
2	06 11 804	English language 102	لغة انجليزية 102	2	2		-	
3	05 01 817	Communication Skills	مهارات اتصال	2	2		-	
4	06 11 806	National Culture	ثقافته وطنيه	2	2		-	
5	01 01 818	Anatomy and Histology II	تشريح وانسجة 2	3	2		2	

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6	06 11 807	Arabic Israeli conflict	الصراع العربي الإسرائيلي	2	2		-	
7	01 01 819	Physiology	علم وظائف الأعضاء	2	2		-	
8	06 11 802	Arabic Language 102	لغة عربية 102	2	2			
9	08 01 811	Introduction of Midwifery	مقدمه في تقنيه عمليات	2	2		-	
10	08 04 841	Introduction of operation Technology	اساسيات تمرير 2	3	2	2		
Total				23	20	4		

Level 2

Term 1									
No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	T	P	Prerequisites, Co-requisites
1		04 01 821	Fundamental of Infection Control	أساسيات التحكم بالعدوى	2	2			
2		02 01 822	Basic pharmacology	اساسيات علم الادوية	2	2	-		
3		03 01 823	Microbiology and Parasitology	أحياء دقيقة وطفيليات	3	2	2		
4		08 04 842	Operation Theater 1	غرف عمليات 1	3	2	2		
5		01 02 842	Internal Medicine	طب باطنه	2	2			
6		08 04 843	Basic of Sterilization	اساسيات التعقيم	3	2	2		
		08 04 844	Clinical Practicum 1	التدريب الميداني 1					
Total					15	12	6		

Term 2									
No.	Level-Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	T	P	Prerequisites, Co-requisites
1		01 01 825	Pathology	علم الامراض	2	2			
2		05 01 826	Psychology	علم النفس	2	2	-		
3		02 01 827	Applied Pharmacology	ادوية تطبيقية	2	2	-		

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4		08 04 845	introduction of Surgical Technology	مقدمة في تكنولوجيا الجراحة	2	2	-		
5		08 04 846	Operation Theater 2	غرف عمليات 2	4	2	4		
6		01 028 43	General Surgery	جراحة عامة	2	2	-		
		08 048 47	Clinical Practicum 2	التدريب الميداني 2	4			12	
Total					18			12	

Level 3

Term 1									
No .	Level -Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	T	P	Prerequisites, Co-requisites
1		04 02 836	Public Health	الصحة العامة	2	2			--
2		01 02 837	Gynecology and Obstetric Surgical	جراحة نساء وتوليد	2	2			
3		01 02853	Pediatrics Surgery	جراحه أطفال	2	2		-	
4		08 04 848	Operations Technique 1	تقنيات عمليات 1	3	2	2	-	
5		08 04 849	Clinical Practicum 3	التدريب الميداني 3	4			12-	
6		05 02 833	Biostatistics	الصحة العامة	2	2			
Total					15	10		12	

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Term 2									
No .	Level -Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	T	P	Prerequisites, Co-requisites
1		01 02 854	UROLOGY SURGRY	جراحه مسالك بوليه	2	2			
2		01 02 855	Orthopedic SURGRY	جراحة العظام	2	2			
3		01 02 856	Neurosurgery	جراحة مخ وأعصاب	2	2			
4		08 04 850	Operations Technique2	تقنيات عمليات 2	3	2	2		
5		08 04 851	Clinical Practicum 4	التدريب الميداني 4	4			12	
		05 02 837	Scientific Research methodology	طرق البحث العلمي	2	2			
Total					15	10		12	

Level 4

Term 1									
No .	Level -Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	T	P	Prerequisites, Co-requisites
1		01 02 857	Vascular surgery	جراحة اوعية دموية	2	2			
2		08 04 52	Operations Technique 3	تقنيات عمليات 3	3	2	2		
3		08 04 53	Clinical Practicum 5	التدريب الميداني 5	4			12	
4		05 01 839	Health Administration and Quality Management	إدارة الصحة وإدارة الجودة	2	2			
Total					11	6		12	

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Term 2									
No .	Level -Sem.	Course Code	Course Name	اسم المقرر	Cr. Hrs.	L	T	P	Prerequisites, Co-requisites
1		08 04 854	Graduate Research Project	مشروع بحث التخرج	3			9	
2		01 02 858	ENT	جراحة أنف وأذن وحنجرة	2	2			
3		08 04 855	Operations Technique 4	تقنيات عمليات 4	3	2	2		
4		01 02 859	Ophthalmic Surgery	جراحة عيون	2	2			
5		08 04 856	Clinical Practicum 6	التدريب الميداني 6	6			18	
Total					16	6		27	

16. Distribution of Total Credit Hours:

Courses		No of Courses, CH, %	First level		Second level		Third level		Fourth level		Total	%
			1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd		
University Requirements	Compulsory	No. of courses										
		Credit Hours										
		%										
	Electives	No. of courses										
		Credit Hours										
		%										
Faculty Requirements	Compulsory	No. of courses										
		Credit Hours										
		%										
	Electives	No. of courses										
		Credit Hours										
		%										
	Compulsory	No. of courses										

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Internship year	
Internship 1	6months
Internship2	6months

2. Teaching strategies

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1. Lecture
2. Lecture - Discussion
3. Demonstration
4. Student Presentations
5. Role Plays
6. Brainstorming
7. Case study
8. Field work

3. Assessment Strategy:

To evaluate the student's knowledge attaining and skill acquirement, the following assessment methods will be applied

(i). for courses involving no practical part

Type of Assessment Tasks	Proportion of Final Assessment	Mark distribution	Week Due
Attendance and activities	5%	5	15th week
Student assignments	5%	5	5th and 12th week
Mid-term exam	20%	20	7th or 8th week
Final-exam	70%	70	16th-17th week
Total	100%	100	

(ii) For courses involving a theoretical and practical parts

1. Theoretical part			
Type of Assessment Tasks	Proportion of Final Assessment	Mark	Week Due
Attendance and activities	5%	5	15th week
Student assignments	5%	5	5th and 12th week
Mid-term exam	10%	10	7th or 8th week
Final-exam	40%	40	16th-17th week
Total theoretical part	60%	60	
2. practical part			
Type of Assessment Tasks	Proportion of Final Assessment	Mark	Week Due
Attendance and attitude	5%	5	14th week

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Semester work	10%	10	1st and 14th week
Final exam (theory or oral)	5%	5	15th week
Final exam (practical)	20%	20	16th-17th week
Total practical mark	40%	40	
Total mark of course	100%	100	

iii) For courses involving a theoretical and clinical parts)

1. Theoretical part			
Type of Assessment Tasks	Proportion of Final Assessment	Mark	Week Due

Attendance and activities	5%	5	15th week
Student assignments	5%	5	5th and 12th week
Mid-term exam	10%	10	7th or 8th week
Final-exam	40%	40	16th-17th week
Total theoretical part	60%	60	

1. Clinical part			
Type of Assessment Tasks	Proportion of Final Assessment	Mark	Week Due
Attendance and attitude	5%	5	14th week
Clinical Evaluation/ Semester Work	20%	20	1st and 14th week
Final exam (theory or oral)	5%	5	15th week
Final exam (practical)	10%	10	16th-17th week
Total clinical mark	40%	40	
Total mark of course	100%	100	

(iv). Graduation research project assessment

Each project will be assessed by a committee of three members as follow:
--

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Type of assessment	Mark
Research project supervisor	70
Internal examiner: a member of the department teaching stuff.	15
external examiner a qualified external examiner (either from other departments of the college or from another university)	15
Total mark	100
1.Assessment of the research project by the project supervisor	
Type of assessment	Mark
Attendance and attitude	50
Coursework and collaboration	20
Total	70
2. Assessment of the project by the other discussion member	
Type of assessment	Mark
Introduction and objectives	4
Literature review	5
Results	6
Discussison,conclusion,recommendations	4
References	2
Presentation	4
Total	30

The whole students of the projects will be assessed as one unit

Zero degree will be given for any student does not attending the research presentation

1or 2 degree to each MCQ, true /false and match questions

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4. Evaluation Methodologies of Program ILO's

Target group(Evaluator)	Assessment tools	Sample size
Final year students	Questionnaire 1	100%
Graduate students	Questionnaire 2	40%
Stakeholders (Employers)	Questionnaire3	20%
Academic staff	Questionnaire 4	100%
External Evaluator	Feedback & Comments	100%

5. Questions format for exams

Question patter	Details	Marks Distribution	%
Easy	- Types of this pattern include: short note, enumerate, mention, explain, compare, define, complete, draw, what questions, etc. - At least 4 types of this pattern of questions should be included in the exam.	30	30%
Multiple choice questions (MCQ)	35 -70 article 4-5 of choices of each article	40-50	50%
Others Types include	- True and False - Match questions.	10-20	20%

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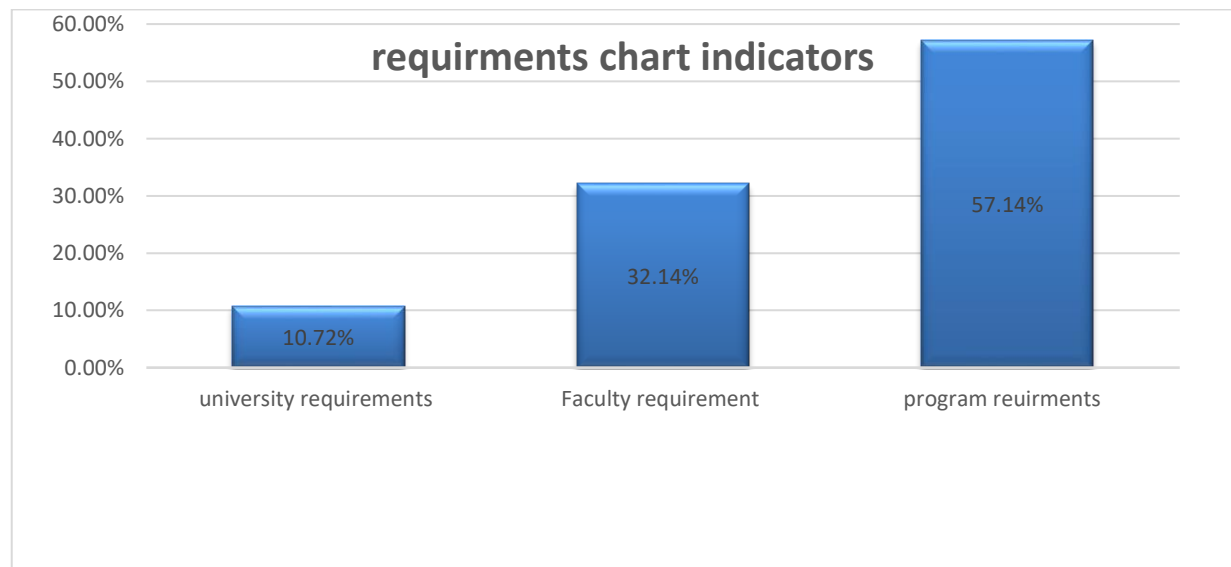
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6. System of Study

1-Number of hours for program accomplishment	149
12 month internship	48 per week (192 hours per month total of 2304 hours)
Requirement	Percentage
university requirements	10.72%
Faculty requirement	32.14%
Core courses of the specialty and its % from the total	57.14%
Total	100%



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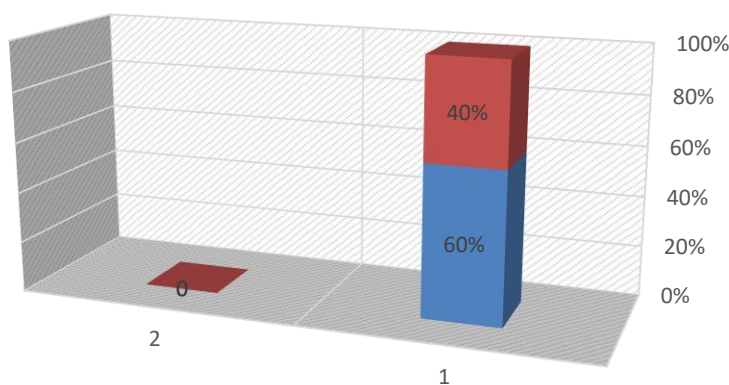
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theoretical VS Lab and clinical practice ratio



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7. Admission Requirements:

1. Admissions to the program shall be made as per the admission rules made by Ministry of higher education and scientific research-Yemen Republic and
2. General Secondary Certificate of the science section, or an equivalent certificate with 70 grade as per the admission rules made by Ministry of higher education and scientific research-Yemen Republic
3. Satisfactory outcome of enrollment **exam** and an **interview** evaluating background and suitability for an **operation theatre technologist**

8. Regulations for Progression and Program Completion

Attendance required for admission to examination

- No candidate shall be permitted to appear in any one of the parts of **B.Sc.OTT** degree course examinations unless he/she has attended the course in the subject for the prescribed period in an affiliated institution recognized by this University.
- A candidate is required to put in a minimum of **75%** of attendance in both theory and practical separately in each subject before admission to the examinations.
- If the candidate is **lacking attendance** in any one of the subject(s), he/she will be detained for the subject(s) in whom the candidate lacks attendance but will be **permitted** to appear for the rest of the subjects in which the candidate is having minimum required percentage of attendance

Progression and Program Completion

- The duration of study for Bachelor's Degree of **operation theatre technology is four academic years**. The student should attend the study as full- timer during the four study years.
- For the students to be **transferred from one academic year to the next**, he is required to have successfully passed in all subjects in the final or in the complementary exams in October of the same year.
- However, the student may still be transferred if he/she has **failed** in not more than three subjects one of them elective. In such cases, students " carrying" subjects from one year to the next should re-sit for their "failed" subjects in their **proper respective semesters**.
- Final year students should pass in all subjects, student who have failed in October exam also, he/she has to re-sit for his exams in those subjects in their proper respective semesters thereafter as many times as necessary until he succeeds.

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9. Graduation requirements :

• The number of hours required to complete the program: 149 credits hours

- The minimum degree for pass in the each course :
 - For courses involving only theoretical part , the minimum pass degree is 65% out of the total degree
 - For courses that involve practical/clinical parts, the student will not pass the course unless he/she passes both theoretical and practical course parties:
 - The student will pass the course if he/she gains at least 65 % of the total the estimation weight of the course.
 - The minimum pass degree in the final theoretical exam is 35% of the estimation weight of the exam.
 - The minimum pass degree in the final practical exam is 40% of the estimation weight of the exam.

10. grading classification

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

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Dr. Fadl Shujaa Al-deen

prof. Abdulsalam Dallaq

Dr.Mohammed Alshamahy

Prof. Mojahed Measar



11. Learning resources required to deliver the programme

Learning resources:

1. Teachers, technical and administrative staff
2. Teaching rooms
3. Whiteboards/ flip charts/Data show
4. Lectures notes
5. Practices in lab.
6. Clinical training
7. Books/journals
8. IT support

Laboratories

1. Chemistry lab
2. Microbiology Lab.
3. Biochemistry Lab.
4. Nursing Lab.
5. Computer Lab.

12. Courses specification and Syllabus of the Program

لجنة التوصيف تكلف من قبل رئاسة الجامعة

Head of Department

Quality Unit

Dean of the Faculty

Center of Development
& Quality Assurance

Rector

Prof. Mohammed Al-Aqmar

Dr. Fadl Shujaa Al-deen

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