Faculty\ Medicine
Program\ Plastic & Reconstructive Surgery

Plastic & Reconstructive Surgery MD Program Specification

21 September University of Medical and Applied Science Faculty of Medicine

Program Specifications of MD Program in Plastic & Reconstructive Surgery

Introduction
The Medical Doctorate (MD) Program in Plastic and Reconstructive Surgery at 21 September University for Medical and Applied Sciences is designed to prepare highly qualified specialists capable of providing comprehensive, ethical, and evidence-based care in reconstructive and aesthetic surgery. This program combines advanced academic knowledge, clinical experience, and research training to develop physicians with the expertise required to address complex reconstructive and cosmetic challenges. The program is offered in English, extends over six years of full-time study, and totals 153 credit hours. It is delivered through the University campus and affiliated hospitals under the supervision of the Department of Plastic and Reconstructive Surgery, Faculty of Medicine. Graduates of this program will contribute to the improvement of health services, academic teaching, and scientific research in Yemen and the region.

Program Identification and General Information		
1	Scientific name of the program:	Medical Doctorate (MD) in Plastic & Reconstructive Surgery
2	The body responsible for granting the degree:	21 September University for Medical and Applied Sciences
3	The body responsible for the program:	Department of Plastic & Reconstructive Surgery
4	Departments participating in the program:	All medical department
5	Study Language of the Program:	English – Arabic
6	Starting year of the program:	2025
7	Study methods in the program:	Full time
8	Program Type	Single
9	Location of Delivery:	University campus and Hospital
10	Study system:	Semesters
11	Number of years needed for completion of the program:	6 years
12	Total credit hours	113 credit hours
13	Targeted qualification level(s) in the program	Medical Doctorate (MD)
14	The profession(s) of graduates:	- Specialist clinicians in Plastic & Reconstructive Surgery

		- **Good Academic staff** - **Researchers**
15	**Required qualification for admission to the program:**	**MBBS degree, academic master degree**
16	**Minimum grade requirements:**	**Good**
17	**Other admission requirements:**	**None**
18	**Prepared by:**	
19	**year of the program Accreditation:**	**2025**

University Vision, Mission and Aims

▪ 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.

▪ Aims of the University

- Ensuring the application of quality standards and having the distinction standards in medical and applied sciences, scientific research and community service.
- Adopting student-centered 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.
- Attracting and Eemploying 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.
- Developing the distinguished academic infrastructure continuously and establishing modern research and service centers with high efficiency that can give a real effect locally and regionally.
- 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.

Postgraduate studies and scientific research Mission and Aims

Contemporary in presenting programs of postgraduate studies and scientific research locally and regionally.

▪ Postgraduate studies and scientific research Mission

Postgraduate Studies and Scientific Research seeks to prepare and implement a qualitative and un applied scientific programs, in order to, prepare excellent research-leaders, able to solve community problems**.**

▪ Postgraduate studies and scientific research Aims

1. Create qualitative and attractive programs for graduates from local and regional universities.
2. Continuous development and updating of postgraduate programs according to comprehensive quality standards .
3. Prepare distinctive researchers through continuous education programs and develop research skills.
4. Participate with similar scientific organizations in scientific research
5. Develop the infrastructure, financial and human resources for programs of postgraduate and scientific research, according to academic accreditation standards .
6. Automate the system of postgraduate and scientific research and activate electronic contents.
7. Attract the experts of academic and researchers from internal and external environment.

Faculty Vision, Mission and Aims

▪ Faculty Vision

A distinguished Medical Faculty capable of competing locally and regionally.

▪ Faculty Mission

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That 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

▪ Aims of the Faculty

- Finding effective solutions for the university hospital, the infrastructure of the College and its annual budget.
- Addressing the gap in human resources adequately and efficiently, and developing them on a professional basis.
- Improving the quality and quality of the human medicine program in accordance with quality standards and national and international academic accreditation.
- Strengthening governance and management systems, consolidating decentralization, and practicing transparency and accountability.
- Building the students' abilities to think, analyze and solve problems in research methods that qualify them for the labor market and achieve their practical and professional aspirations in the future.
- Contribute to supporting scientific research directed on the basis of planning related to comprehensive development goals in Yemen.
- Forming a real and effective partnership with the community, its institutions and its counterparts in a national, Arab and international context

Department Mission and Aims

Department Mission

The Department of Plastic and Reconstructive Surgery seeks to provide distinguished education, training, and research in the field of plastic and reconstructive surgery, producing competent specialists who deliver high-quality patient care, contribute to academic advancement, and engage in innovative research that addresses community needs.

Department Aims

1. To train physicians to become skilled, ethical, and compassionate plastic and reconstructive surgeons.
2. To develop clinical and operative competencies in all aspects of reconstructive and aesthetic surgery.
3. To encourage scientific research and innovation addressing local and regional health challenges.
4. To provide continuous professional development and promote lifelong learning among staff and students.
5. To strengthen collaboration with national and international institutions for academic and research excellence.
6. To contribute to community service through outreach programs, patient education, and reconstructive initiatives.

Program Mission and Aims

Program Mission

The MD Program in Plastic and Reconstructive Surgery aims to prepare highly qualified clinicians, educators, and researchers capable of providing comprehensive, safe, and innovative plastic and reconstructive surgical care, contributing to the advancement of medical science and addressing the health needs of the Yemeni and regional communities.

Program Aims

The Plastic & Reconstructive Surgery Medical Doctorate Program at 21 September University aims to:

1. Develop competent and skilled surgeons proficient in modern plastic and reconstructive surgical techniques.
2. Promote excellence in clinical practice based on evidence-based medicine and ethical standards.
3. Strengthen research capacity in plastic and reconstructive surgery to contribute to scientific and clinical advancements.
4. Prepare academic staff and future leaders in medical education and surgical training.
5. Enhance professional communication, teamwork, and leadership skills among trainees.
6. Foster a culture of continuous learning and innovation aligned with international medical standards.
7. Address community health needs through reconstructive surgery and public awareness initiatives.

Program Benchmarks
Referenced Accreditations Consols:
1. World Federation for Medical Education (WFME) standards for postgraduate medical education. 2. Royal College of Surgeons (UK) Plastic Surgery curriculum framework. 3. Accreditation Council for Graduate Medical Education (ACGME) standards for surgical residency programs.
Program Benchmarks: 1. **University of Melbourne** https://medicine.unimelb.edu.au/research/md-phd-pathway 2. **University of Amsterdam** https://www.uva.nl/en/research/phd/phd.html 3. **University of Toronto** https://surgery.utoronto.ca/postgraduate-program 4. **University of Pittsburgh** https://www.plasticsurgery.pitt.edu/

Survey of Similar Accredited Programs at National and International Universities (Benchmarks)

Data Required	Similar Accredited Programs				Current program
	1st	2nd	3rd	4th	
Program Name	MSc + PhD in Reconstructive Medicine	Doctorate in Medical Sciences (Plastic Surgery)	Integrated MSc & PhD in Medical Sciences	PhD in Surgery (with Integrated MSc)	MD in Plastic & Reconstructive Surgery
Faculty/Department	Department of Plastic Surgery & Bioengineering	Faculty of Medicine / Dept. of Plastic Surgery	Institute of Medical Science	School of Medicine	Department of Plastic & Reconstructive Surgery
University	University of Pittsburgh	University of Amsterdam	University of Toronto	University of Melbourne	21 September University for Medical and Applied Sciences
Country	USA	Netherlands	Canada	Australia	Yemen
Study Type	Combined MSc-PhD	Doctoral (PhD)	Combined MSc-PhD	Doctoral (PhD)	Postgraduate Doctoral (MD) Program
Study Mode	Full-time	Full-time	Full-time	Full-time	Full Time
Number of Semesters	10-12	8-10	9 (Minimum)	8-10	10 semesters
Total Credits	36 (MSc Phase)	30 (Coursework)	2.0 Full Course	32 (Coursework)	93 Credit Hours

(Without Thesis)			Equivalents (FCEs)		
Core Course Credits	24	20	1.0 FCE	20	37
Elective Course Credits	12	10	1.0 FCE	12	14
Number of Core Courses	4-5	3-4	2-3	3-4	8 Core Courses
Number of Elective Courses	2-3	2-3	2-3	2-3	3 Elective Courses
Bridging Courses (if any)	Core Seminars, Lab Techniques	Literature Thesis, Research Proposal	Research Ethics, Biostatistics	Research Methodology, Ethics	None
Thesis Credits	84 (PhD Thesis)	150 (PhD Thesis)	Thesis is the primary requirement	118 (PhD Thesis)	30 credits
Total Credits (Courses + Thesis)	120	180	Not a formal credit system for thesis	150	113
Thesis Duration	3-4 years (PhD)	4 years	3-4 years	3-4 years	1 academic year
Minimum Program Duration	4-5 years (MSc-PhD)	4 years	5 years	4 years	5 years
Maximum Program Duration	7 years	6 years	7 years	6 years	7 years

Intended Learning Outcomes (ILOs)

Knowledge and Understanding (A)

	Upon successful completion of the postgraduate MD in Plastic & Reconstructive Surgery Program, the graduates will be able to:
A1	Demonstrate advanced understanding of anatomy, physiology, and pathology related to plastic and reconstructive surgery.
A2	Explain principles of wound healing, tissue repair, microsurgery, and grafting techniques.
A3	Describe the pathophysiology and management of congenital and acquired deformities.
A4	Identify the ethical, legal, and professional standards in surgical practice and patient care.
A5	Discuss principles of aesthetic surgery, reconstructive techniques, and emerging surgical technologies.
A6	Apply biostatistical and epidemiological concepts in evaluating clinical evidence.
A7	Recognize the complications of surgical procedures and principles of prevention and management.
A8	Describe research methodology, design, and scientific writing in medical research.
A9	Understand health systems, leadership roles, and interdisciplinary coordination in surgical services.

Intellectual Skills (B)

	Upon successful completion of the postgraduate MD in Plastic & Reconstructive Surgery Program, the graduates will be able to:
B1	Analyze complex clinical cases in reconstructive and aesthetic surgery.
B2	Formulate appropriate surgical and nonsurgical management plans for diverse conditions.
B3	Critically evaluate clinical and scientific literature related to plastic surgery.
B4	Integrate clinical evidence and surgical principles in decision-making.
B5	Apply problem-solving strategies in managing complications and emergencies.

B6	Design and conduct research in plastic and reconstructive surgery.
B7	Use critical thinking in developing innovative reconstructive techniques.
B8	Interpret diagnostic investigations and imaging to guide surgical planning.
B9	Assess patient outcomes using objective clinical and research measures.

Professional and Practical Skills **(C)**	
	Upon successful completion of the postgraduate MD in Plastic & Reconstructive Surgery Program, the graduates will be able to:
C1	Perform a full range of plastic and reconstructive surgical procedures safely and competently.
C2	Demonstrate proficiency in preoperative assessment, surgical planning, and postoperative management.
C3	Apply aseptic techniques and operative discipline in all surgical procedures.
C4	Use microsurgical instruments and technology in tissue transfer and reconstruction.
C5	Provide emergency management for trauma and burns.
C6	Demonstrate professionalism, empathy, and ethical conduct in patient care.
C7	Document medical records accurately and comprehensively.
C8	Supervise and teach junior trainees effectively.
C9	Integrate evidence-based guidelines into daily surgical practice.

General Skills (D)	
	Upon successful completion of the postgraduate MD in Plastic & Reconstructive Surgery Program, the graduates will be able to:
D1	Communicate effectively with patients, families, and multidisciplinary teams.
D2	Demonstrate leadership and teamwork in clinical and academic settings.
D3	Manage time and workload efficiently.
D4	Employ information technology and electronic resources for research and clinical documentation.
D5	Participate in quality improvement and patient safety programs.
D6	Demonstrate critical self-assessment and commitment to continuous learning.
D7	Prepare scientific manuscripts and deliver academic presentations.
D8	Apply project management skills in research and clinical audits.
D9	Exhibit cultural sensitivity and professionalism in a diverse healthcare environment.
D10	Engage in community service and public health initiatives.
D11	Uphold ethical responsibility and respect for patient confidentiality.

Graduate Attributes:

After successfully completing the program, graduates of the Medical Doctorate (MD) Program in Plastic and Reconstructive Surgery at 21 September University for Medical and Applied Sciences will possess the following attributes that reflect the University's mission of national responsibility, excellence in healthcare education, and leadership in medical innovation:

1. Demonstrate in-depth and up-to-date knowledge of medical sciences, anatomy, physiology, and pathology relevant to plastic and reconstructive surgery.
2. Uphold the highest standards of medical ethics, integrity, and compassion.

3. Integrate scientific evidence, clinical expertise, and patient values in all aspects of surgical practice.
4. Capable of conducting independent research, designing scientific studies, and contributing to the body of knowledge in plastic and reconstructive surgery. They will demonstrate innovation in solving complex surgical problems and developing new techniques and technologies.
5. Act as effective leaders and collaborators within multidisciplinary healthcare teams.
6. Demonstrate commitment to continuous professional development, reflective practice, and lifelong learning.
7. Communicate effectively with patients, families, colleagues, and the wider healthcare community.
8. Dedicated to serving the health needs of the Yemeni and regional communities through reconstructive initiatives, public health education, and outreach programs.
9. Equipped with teaching and mentorship skills to educate medical students, residents, and allied health professionals.
10. Display professionalism in all clinical and academic settings, maintaining accountability for their actions, accurate documentation, and adherence to institutional and national medical regulations.
11. Effectively utilize modern surgical technologies, electronic medical records, and digital research tools.

Program Structure:

Requirements	No. of Courses	Credit Hours	Rational Weight %
Supplementary courses	0	0	%٠
Core Courses	8	37	%٣٣
Elective Courses	3	14	%١٢
Clinical training	7	42	%٣٧
Thesis	4	20	%١٨
Total:	22	113	100%

Study Plan

	Course Title	Code/ no.	Credit Hours				Total study days	Total C.H.	Pre-Requisites
			Theoretical	clinical	Operative	Total C.H			
Part 1									
Semester 1									
1	Anatomy & Surgical Principles	ANAT-101	١	٤	٦	٥			None
2	Introduction to Plastic Surgery	PS-101	١	٤	٦	٥			None
3	Research Methodology	RM-101	١	٤	٦	٥			None
Total credit hours						١٥			
Semester 2									
1	Human Physiology	PHYS-102	١	٤	٦	٥			ANAT-101
2	Surgical Techniques I	ST-102	١	٤	٦	٥			PS-101
3	Elective Course 1	EL-101	١	٤	٦	٥			None
1	Clinical Rotation I – General Surgery	CR-101	0	٦	٩	٦			ST-102
Total credit hours						٢١			
Semester 3									
1	Advanced Plastic Surgery I	PS-201	١	٤	٦	5			ST-102
2	Elective Course 2	EL-102	١	٤	٦	٥			EL-101
1	Clinical Rotation II – Burns & Wound Care	CR-102	0	٦	٩	٦			CR-101
Total credit hours						١٦			
Semester 4									
1	Thesis / Research Project	TH-101	1	6	9	٦			RM-101
Total credit hours						٦			
Part 2									
Semester 5 (Clinical Training)									
1	Clinical Rotation III – Craniofacial & Pediatric Surgery	CR-201	0	٦	٦	٥			CR-102
2	Clinical Rotation IV – Microsurgery	CR-202	0	٤	٦	٤			CR-201
Total Clinical hours						٩			

Semester 6									
1	Advanced Plastic Surgery II	PS-202	١	٢	٦	٤			PS-201
2	Elective Course 3	EL-103	١	٢	٦	٤			EL-102
3	Clinical Seminar / Journal Club	SEM-101	١	٢	0	٢			None
Total credit hours						١٠			
Semester 7 (Clinical Training)									
1	Clinical Rotation V – Cosmetic & Reconstructive Surgery	CR-301	0	٦	٦	٥			CR-202
Total Clinical hours						٥			
Semester 8									
1	Research Continuation / Thesis	TH-201	١	6	9	6			TH-101
2	Advanced Surgery Workshop	WS-101	١	2	٣	٣			PS-202
3	Clinical Rotation VI	CR-302	0	٤	٦	٤			CR-301
Total Clinical hours						**13**			
Semester 9 (Clinical Training)									
1	Clinical Rotation VII – Senior Resident Cosmetic Clinic	CR-401	0	٦	١٥	٨			CR-302
Total credit hours						٨			
Semester 10									
1	Thesis / Research Completion	TH-301	1	6	9	6			TH-201
٢	Clinical Wrap-up & Exam Preparation	CR-402	0	٤	٦	٤			CR-401
Total credit hours						**10**			
إجمالي الساعات المعتمدة						**113**			

Matrix of Mapping Program PILO's with Courses

المقررات	A1	A2	A3	A4	A5	A6	A7	A8	A9	B1	B2	B3	B4	B5	B6	B7	B8	B9	C1	C2	C3	C4	C5	C6	C7	C8	C9	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11
Anatomy & Surgical Principles	✓	✓	✓	✓			✓			✓									✓	✓	✓			✓	✓													
Introduction to Plastic Surgery	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Research Methodology				✓		✓		✓	✓			✓	✓		✓		✓	✓						✓	✓	✓		✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Human Physiology	✓	✓	✓							✓									✓	✓	✓																	
Surgical Techniques I	✓	✓	✓	✓	✓		✓			✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Elective Course 1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clinical Rotation I – General Surgery	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Advanced Plastic Surgery I	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Elective Course 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clinical Rotation II – Burns & Wound Care	✓	✓	✓	✓	✓		✓			✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Thesis / Research Project				✓		✓		✓	✓			✓	✓	✓	✓	✓	✓	✓						✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clinical Rotation III – Craniofacial & Pediatric Surgery	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clinical Rotation IV – Microsurgery	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Advanced Plastic Surgery II	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Elective Course 3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clinical Seminar / Journal Club	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clinical Rotation V – Cosmetic & Reconstructive Surgery	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Research Continuation / Thesis				✓		✓		✓	✓			✓	✓	✓	✓	✓	✓	✓						✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Advanced Surgery Workshop	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clinical Rotation VI	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clinical Rotation VII – Senior Resident Cosmetic Clinic	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Thesis / Research Completion				✓		✓		✓	✓			✓	✓	✓	✓	✓	✓	✓						✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clinical Wrap-up & Exam Preparation	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Teaching Strategy		
N	**Teaching Strategy**	**Description**
١	Lectures, interactive seminars, case-based learning, and problem-based learning (PBL)	Development of theoretical knowledge and understanding of medical sciences related to plastic and reconstructive surgery (A1–A9)
٢	Case discussions, clinical reasoning sessions, journal clubs, and guided literature review	Enhancement of analytical and intellectual skills for complex surgical problem-solving and research (B1–B9)
٣	Supervised clinical training, operative demonstrations, simulation-based learning, and hands-on workshops	Acquisition of practical and operative skills in plastic, reconstructive, and aesthetic surgery (C1–C9)
٤	Role modeling, mentorship programs, multidisciplinary team participation, and ethics seminars	Development of ethical, professional, and leadership competencies in surgical and academic settings (A4, C6, D1–D12)
٥	Research supervision, self-directed learning, e-learning platforms, and participation in scientific conferences	Promotion of lifelong learning, innovation, and research capacity (A8, B6, D4, D6–D8)

Assessment Strategy		
N	**Assessment Strategy**	**Description**
1	Written examinations (MCQs, SAQs, essays), oral viva, and structured short-answer assessments	Evaluation of theoretical knowledge and conceptual understanding (A1–A9)
2	Objective Structured Clinical Examinations (OSCEs), case presentations, and clinical scenario-based discussions	Assessment of clinical reasoning and intellectual problem-solving skills (B1–B9)
3	Direct Observation of Procedural Skills (DOPS), logbook reviews, operative skill assessments, and performance in clinical rotations	Evaluation of professional and practical surgical competencies (C1–C9)
4	Research proposal evaluation, thesis/dissertation defense, and peer-reviewed publication requirement	Assessment of research capability and scientific writing (A8, B6, D7–D8)
5	Faculty observation, multisource (360°) evaluation, patient feedback, and professionalism portfolio	Assessment of ethical behavior, professionalism, and teamwork (A4, C6, D1–D12)
٦	Oral case discussions, team-based project evaluation, and leadership reflections in clinical rounds	Evaluation of communication and leadership competencies (D1–D3, D9–D12)

٧	Reflective reports, continuous professional development logs, and participation in workshops or CME activities	Assessment of continuous learning and self-development (D4–D8)

Study methods and system in the program:
Study system: Integrated competency-based medical education
Study methods in the program: Lecture-based + Clinical practice)
Number of years needed for completion of the program: 5 years
Total credit hours required to award the degree: 113 credit Hours

Admission Requirements for the Program	
Requirement	**Details**
Required Specializations	Bachelor of Medicine and Surgery (MBBS) or an equivalent degree from a recognized university.
English Language Requirement	Good in English
Computer Skills (ICDL)	Good
Other Requirements	Submission of academic transcripts, letters of recommendation, and a personal statement.

Graduation Requirements:

1. Total Credit Hours Required:

- **Minimum Total:** ١١٣ Credit Hours, including:
  - Core Courses: 37 C.H.
  - Electives: 14 C.H.
  - Clinical training: 42 C.H.
  - Thesis & Research: 20 C.H.

2. Minimum Passing Grades per Course

Course Type	Passing Grade	Grading Scale
Core Courses	**70%** (C+)	Excellent (90-100%), Very Good (80-89%), Good (70-79%), Fall (<70%)
Elective Courses	**70%** (C+)	Excellent (90-100%), Very Good (80-89%), Good (70-79%), Fall (<70%)
Clinical Training Courses	**75%** (B)	Evaluated via OSCE (Objective Structured Clinical Exam)
Thesis Defense	**80%** (B+)	Assessed by committee (research quality, presentation, publication potential)

3. Cumulative Academic Requirements

- **Minimum CGPA: 70%** (Good).
- **No Failures Allowed:** Students must retake any failed course (max 2 attempts).

4. Clinical & Practical Competencies

- **Successful Completion of:**

○ **All required Hours of supervised surgical procedures.** ○ **All Logbook Cases required.** ○ **All Clinical Rotation required** (in the study plan).
5. Thesis & Research • **Mandatory:** ○ Submission of an **original research thesis** (113 credits). ○ **Publication:** At least 3 conference presentation or journal submission.
6. Additional Requirements • **Licensing Exam:** Pass national exams

Resource and equipment's needed for Program Implementations

Resources and Equipment Needed for Program Implementation

Category	Resources and Equipment
Academic Resources	- Modern lecture halls with audiovisual and simulation capabilities. - Access to electronic learning management system (LMS). - Digital libraries and online medical databases (PubMed, Scopus, UpToDate). - Anatomical models, cadaveric dissection facilities, and 3D anatomy software.
Clinical Training Facilities	- Affiliated teaching hospitals with certified plastic and reconstructive surgery units. - Operating theaters equipped for microsurgery, laser therapy, and cosmetic procedures. - Burn unit and wound care centers. - Outpatient clinics for reconstructive and aesthetic consultations
Research Facilities	- Dedicated research laboratories with microscopes, tissue culture, and imaging equipment. - Statistical analysis software (SPSS, R, GraphPad). - Research mentorship program and ethics committee support. - Access to institutional review board (IRB) and publication resources
Simulation and Skills Laboratories	- Surgical simulation units with microsurgical training models. - High-fidelity mannequins for trauma and emergency scenarios. - Suturing and grafting practice kits. - Virtual surgery simulation systems
Technological and Digital Infrastructure	- Computers with medical imaging software (3D reconstruction, CAD design). - Electronic Medical Record (EMR) system for training. - Smart classrooms with interactive boards and digital projectors. - High-speed internet and cloud storage for e-learning and research data
Human Resources	- - Qualified academic faculty in plastic and reconstructive surgery. - Clinical supervisors and consultants for specialty rotations. - Research advisors and biostatisticians. - Technical and nursing support staff
Community and Outreach Resources	- Partnerships with regional hospitals for community reconstructive projects. - Mobile clinics for rural and underserved populations.

	- Collaboration with NGOs for public health and awareness programs
Administrative and Support Facilities	- Postgraduate education office. - Student counseling and career development center. - Quality assurance and accreditation unit. - Conference and seminar halls for academic events

Academic Staff:			
	Proof.	Associate Proof.	Asst Proof.
Needed Staff	**1**	**1**	**2**
Current Staff	**1**	**2**	**4**
Notes			

Program evaluation and improvement		
Targeted	**Assessment method**	**Sample**
students	**Course feedback surveys**	**All enrolled students**
Faculty Peer reviews,	**Peer reviews, academic audits**	**All teaching staff**
Alumni	**Graduate tracer studies**	**Selected graduates from past 3 years**
Employers	**Structured feedback forms/interviews**	**Hospitals, health institutions**
Curriculum Committee	**Annual program review meetings**	**Committee members**