

Faculty: Medicine

Program: MD Program in Dermatology and  
Venereology

كلية: الطب

برنامج/ الدكتوراه في الأمراض الجلدية  
والتناسلية

# Program Specification of Medical Doctorate (MD) degree in Dermatology and Venereology

Medicine

:Faculty الكلية

21 September University for  
Medical and Applied  
Sciences

الجامعة  
:University

## Program Specifications of MD Program in Dermatology and Venereology

### Introduction

The Medical Doctorate (MD) in Dermatology and Venereology program is an advanced study during a five-year postgraduation courses, involves intensive clinical training, and focusing on the diagnosis, treatment, and skin, and Venereology diseases. The program encompasses various aspects of dermatology, including clinical dermatology, cosmetic dermatology, venereology, in addition, public health aspects of leprosy. Students gain expertise in diagnosing and treating various skin conditions, and sexually transmitted infections cases, along with conducting procedures such as dermatosurgery, cosmetic treatments.

### Program Identification and General Information

1	Scientific name of the program:	Medical Doctorate (MD) in Dermatology and Venereology
2	The Organization responsible for granting the degree:	21 September University for Medical and Applied Sciences
3	The Organization responsible for the program:	department of Dermatology and Venereology
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:	5 years
12	Total credit hours	150 credit hours
13	Targeted qualification level(s) in the program	Medical Doctorate (MD)
14	The profession(s) of graduates:	<ul style="list-style-type: none"> <li>- Specialist clinicians in Dermatology and Venereology</li> <li>- Good Academic staff</li> </ul>

		- Researchers
15	<b>Required qualification for admission to the program:</b>	MBBS degree, academic master degree
16	<b>Minimum grade requirements:</b>	Good
17	<b>Other admission requirements:</b>	None
18	<b>Prepared by:</b>	Assoc prof. Mutaia Abdullah Abuarij Dr. Maher Al-Muriesh
19	<b>year of the program Accreditation:</b>	

University Vision, Mission and Aims	
<p>▪ <b>University Vision</b></p> <p>A Contemporary University with National Responsibility and Faith Identity</p>	
<p>▪ <b>University Mission</b></p> <p>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.</p>	
<p>▪ <b>University Values</b></p> <ul style="list-style-type: none"> <li>▪ Leadership and Influence</li> <li>▪ Work effectively with a time</li> <li>▪ Excellence and Innovation</li> </ul>	
<p>▪ <b>University Objectives</b></p> <ul style="list-style-type: none"> <li>• Ensuring the application of quality standards and having the distinction standards in medical and applied sciences, scientific research and community service.</li> <li>• 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.</li> <li>• 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.</li> <li>• Developing the distinguished academic infrastructure continuously and</li> </ul>	

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

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 ■

- Professional
- Continuing Education
- Appreciation of science and scientists
- Transparency
- Accountability
- Team Work

#### Department Mission and Aims

##### Department Mission ■

The mission of the department is to: Provide high-quality education and training to undergraduate and postgraduate students in dermatology and venereology, in order to, deliver excellent patient care, diagnosis, and treatment of skin, and venereology diseases, conduct research to advance knowledge in dermatology and venereology, and engage in community outreach programs.

##### Department Aims ■

- 1- Implement undergraduate and postgraduate programs, in order to, achieving self-sufficiency in terms of faculty members Specialist clinicians in Dermatology and Venereology
- 2- To guide students in acquisition of a broad, evidence-based fund of knowledge, both medical and procedural, via clinical experience, reading, lectures and advanced educational tools.
- 3- Expanding research innovations and collaborations, to enhance health.
- 4- To teach and model the values of lifelong learning and humanism.

#### Program Mission and Aims

##### Program Mission ■

**Program Mission** is to produce professional, innovative and moral dermatology and venereology specialist graduates. In addition, developing research and community service activities in the field of dermatology and venereology by producing research outputs and community service activities.

##### Program Aims ■

The aim of this program is to provide the postgraduate student with the advanced medical

knowledge and skills essential for the mastery of practice of Dermatology & Venereology and necessary for further training and practice in the field of Dermatology & Venereology through achieving:

- 1- Clinical skills.
- 2- Patient care skills
- 3- Basic dermatology procedures such as; skin biopsy, laser, chemical peel, mesotherapy, cosmetic injections
- 4- Able to perform high standard scientific medical research and publication in indexed medical journals.
- 5- Maintenance of learning abilities necessary for continuous medical education
- 6- Ethical principles related to the practice in this highly sensitive specialty.
- 7- Active participation in community needs assessment and problems identification.

Program Benchmarks
Egyptian NRS
Indian NARS
<b>Program Benchmarks:</b> <ol style="list-style-type: none"><li>1- <b>Minia University</b> <a href="https://med.minia.edu.eg/Ehome.aspx/">https://med.minia.edu.eg/Ehome.aspx/</a></li><li>2- <b>Aswan University</b> <a href="https://med.aswu.edu.eg/specification-of-the-postgraduate-courses/">https://med.aswu.edu.eg/specification-of-the-postgraduate-courses/</a></li><li>3- <b>Tulane University</b> <a href="https://catalog.tulane.edu/courses/derm/">https://catalog.tulane.edu/courses/derm/</a></li><li>4- <b>SRM University</b> <a href="https://www.srmist.edu.in/college/medicine-and-health-sciences/">https://www.srmist.edu.in/college/medicine-and-health-sciences/</a></li><li>5- <b>ZULFIQAR ALI BHUTTO MEDICAL UNIVERSITY</b> <a href="https://www.szabmu.edu.pk/program/medicine-allied-disciplines">https://www.szabmu.edu.pk/program/medicine-allied-disciplines</a></li></ol>

## 6- Universal Health Services

<https://www.uhs.edu.pk/index4.php>

**ملحق (1)** المعايير الأكاديمية للمحتوى لهيئة الاعتماد.  
**ملحق (2)** مسح أسماء البرامج المماثلة للبرنامج الحالي.  
**ملحق (3)** مسح مخرجات التعلم في البرامج المماثلة للبرنامج الحالي.  
**ملحق (4)** مسح الساعات المعتمدة للبرامج المماثلة للبرنامج الحالي.  
**ملحق (5)** مسح المقررات الدراسية في البرامج المماثلة للبرنامج الحالي.

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

Current program	Similar Accredited Programs				Data Required		
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	
Program Name	MD in Dermatology and Venereology	MD in Dermatology and Venereology	MD in Dermatology	MD in Dermatology and Venereology	MD in Dermatology and Venereology	MD in Dermatology	MD in Dermatology and Venereology
Faculty/Department	Faculty of Medicine	Faculty of Medicine	School of Medicine	Medicine	medicine-and-health-sciences	Deanery of Clinical Sciences	College of Medicine
University	Aswan University	Assiut University	Tulane University	ZULFIQAR ALI BHUTTO MEDICAL UNIVERSITY	SRM University	Universal Health Services	21 September University
Country	Egypt	Egypt	USA	Pakistan	India	Pakistan – Lahore	Yemen
Study Type	Full-time	Full-time	Full-time	Full-time	Full-time	Full-time	Full-time
Study Mode	Course-work+ Clinicals	Course-work+ Clinicals	Course-work+ Clinicals	Clinicals + Research	Course-work+ Clinicals	Clinicals + Research	Course-work+ Clinicals
Number of Semesters	8- 12 semesters	8-12 semesters	7 – 10 semesters	12 semesters	6 – 8 semesters	12 semesters	10 semesters
Total Credits (Without Thesis)	75 credit hours	75 credit hours	60 Credits	N/A (Competency-based)	120 Credits	N/A (Competency-based)	58 credit hours
Core Course Credits	40	40	140	N/A	100	N/A	58
Elective Course Credits	5	5	40	N/A	20	N/A	N/A
Number of Core Courses	18	18	20	N/A	15	N/A	22
Number of Elective Courses	2	2	8	N/A	6	N/A	N/A
Clinical training	30	30	240	N/A	None	N/A	56
Thesis Credits	15 credit hours	15 credit hours	60	Required (No fixed credits)	10	Required (No fixed credits)	36 credit hours
Total Credits (Courses + Thesis)	90 credit hours	90 credit hours	220 Credits	N/A	130 Credits	N/A	150 credit hours

<b>Thesis Duration</b>	1.8 years	2 years	3 years	2 years	2 years	2 years	2 years
<b>Minimum Program Duration</b>	5 years	5 years	5 years	5 years	5 years	5 years	5 years
<b>Maximum Program Duration</b>	7 years	7 years	8 years	7 years	7 years	8 years	8 years

### Attributes of graduates:

#### Core Skills and Knowledge

##### 1. Diagnosis and Treatment:

- Ability to diagnose and treat a wide range of skin, hair, nail, and mucosal diseases, including eczema, psoriasis, and infections.

##### 2. Sexually Transmitted Diseases (STDs):

- Diagnosis and treatment of sexually transmitted infections and conditions related to the genital system.

##### 3. Advanced Procedures:

- Mastery of advanced techniques and procedures such as laser therapy, microdermabrasion, and chemical peels.

#### Research Skills

##### 1. Analytical Thinking:

- Ability to think critically and develop solutions to various medical problems.

##### 2. Research and Publication:

- Conducting medical research, publishing in peer-reviewed journals, and actively participating in scientific research projects.

##### 3. Continuous Learning:

- Staying updated with the latest developments and advancements in dermatology and venereology.

#### Practical Experience

##### 1. Clinical Training:

- Gaining extensive experience in university hospitals to manage a wide range of cases, from simple to complex.

#### Personal Skills

##### 1. Communication Skills:

- Ability to communicate effectively with patients and provide necessary medical advice.

##### 2. Professionalism:

- Commitment to medical ethics and building a good reputation in the medical field.

### Intended Learning Outcomes (ILOs)

#### Knowledge and Understanding (A)

Upon successful completion of the postgraduate MD in Dermatology and Venereology Program, the graduates will be able to

<b>A1</b>	Point out the normal structure and function of the human skin and on the macro and histological levels.
<b>A2</b>	Mention the normal growth, abnormal structure, function, and development of human skin
<b>A3</b>	list recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of dermatological, venereal diseases.
<b>A4</b>	Understand the etiopathology of skin disease.
<b>A5</b>	Enumerate methods of promoting health and preventing illness.
<b>A6</b>	Describe the scientific methods of establishing disease causation.
<b>A7</b>	Memorize common diagnostic and laboratory techniques necessary to establish diagnosis of various dermatological and venereal diseases.

<b>A8</b>	List the various therapeutic methods /alternatives used for various dermatological and venereal diseases.
<b>A9</b>	Understand the different type of laser and its application in various dermatology diseases.
<b>A10</b>	Mention Cosmetic Injectables procedures and cosmetic peeling and its application in dermatology.
<b>A11</b>	Mention the different side effect of various cosmetic procedures (laser, mesotherapy, chemical peeling, Cosmetic Injectables) and its managements.
<b>A12</b>	Understand dermatopathology of common dermatological diseases.
<b>A13</b>	Mention principles of evidence-based medicine, methodologies, tools and ethics of scientific research.
<b>A14</b>	Mention the principles and fundamentals of ethics, quality assurance and legal aspects of professional practice in the field of Dermatology and Venereology.
<b>A15</b>	Mention the effect of professional practice on the environment and the methods of environmental development and maintenance.

### Intellectual Skills (B)

Upon successful completion of the postgraduate MD in Dermatology and Venereology Program, the graduates will be able to:

<b>B1</b>	Integrate data acquired through history taking to reach a provisional diagnosis for various Dermatological, Venereal and Andrological problems.
<b>B2</b>	provides extensive level of patient care for patients with all common diagnoses and for uncomplicated procedures related to Dermatology, Venereology.
<b>B3</b>	Gather essential and accurate information about patients of the Dermatology & Venereology related conditions.
<b>B4</b>	Conduct scientific research studies that add to knowledge in the area of Dermatology and Venereology.
<b>B5</b>	Plan to improve performance in the field of Dermatology and Venereology.
<b>B6</b>	Identify Dermatological and Venereal problems and find solutions.
<b>B7</b>	Mange Scientific discussion based on scientific evidences and proofs.
<b>B8</b>	Interpret data acquired through researches using different statistical tests
<b>B9</b>	Identify and collect data variables impacting health and disease in the field of Dermatology, Venereology.
<b>B10</b>	Describe the theoretically type of hair transplant procedures and its complications.

### Professional and Practical Skills (C)

Upon successful completion of the postgraduate MD in Dermatology and Venereology Program, the graduates will be able to:

<b>C1</b>	Perform physical examination of patients.
<b>C2</b>	Write and evaluate of medical reports.
<b>C3</b>	Evaluate and develop methods and tools existing in the area of Dermatology and Venereology and andrology
<b>C4</b>	Perform advanced diagnostic and therapeutic procedures in this practice with perfection of basic procedures such as (skin biopsy ((shave, punch, excisional and incisional), mesotherapy, injectable cosmetic, electrocautery, phototherapy, laser etc.....))
<b>C5</b>	Preform simple dermatosurgery procedures (lipoma removal, epidermal nevus removal, epidermal cyst removal).
<b>C6</b>	Master the basic and modern professional skills in conducting researches in the field of Dermatology& Venereology.
<b>C7</b>	Preform skin scraping test, culture swabs, and skin patch test, skin prick test and understand its indications.
<b>C8</b>	Use recent advanced technological methods in collection, analysis and interpretation of data and in management of prevalent problems in the field of Dermatology.
<b>C9</b>	Handles unexpected complications, while demonstrating compassion and sensitivity to patient needs and concerns.
<b>C10</b>	Perform diagnostic and therapeutic procedures considered essential in the field of Dermatology, Venereology.

### General Skills (D)

Upon successful completion of the postgraduate MD in Dermatology and Venereology Program, the graduates will be able to:

<b>D1</b>	Present reports in seminars effectively.
<b>D2</b>	Use standard computer programs effectively
<b>D3</b>	Teach others and evaluate their performance.
<b>D4</b>	Assess himself and identify his personal learning needs.
<b>D5</b>	Use different sources for information and knowledge.

D6	Work coherently and successfully as a part of a team and team's leadership.
D7	Mange scientific meetings according to the available time.
D8	Communicate effectively and demonstrate caring and respectful behaviors when interacting with patients and their families in Dermatology & Venereology) related situations.
<p>ملحق (6) موازنة اهداف البرنامج مع مخرجات التعلم. ملحق (7) موازنة مخرجات التعلم المقصودة للبرنامج مع المعايير الوطنية. ملحق (8) موازنة مخرجات التعلم للبرنامج مع المعايير المرجعية للمحتوى العلمي.</p>	

### ▪ Program Structure:

Requirements	No. of Courses	Credit Hours	Rational Weight %
Supplementary courses	-	-	-
Core Courses	22	58	33%
Elective Courses	-	-	0%
Clinical training	Continue	56	44%
Thesis	1	36	17%
<b>Total:</b>		150	100%

### Study Plan:

اسم المقرر Course Title	رمز المقرر Code/ NO.	الساعات المعتمدة Credit Hours				عدد الايام الدراسية للمقرر	اجمالي الساعات المعتمدة للمقرر	المتطلبات القبليّة Pre- Requisites
		Theoretical	clinical	Months	الاجمالي Total C.H			
<b>Part 1</b>								
<b>Semester 1</b>								
1	Health Statistics	DV-101	2	-	-	2		None
2	Genetics	DV-102	2	-	-	2		None
3	Basic Immunology	DV-103	2	-	-	2		None
4	Pathology	DV-104	2	-	-	2		None
5	Medical ethics	DV -105	2	-	-	2		None
	<b>Total</b>		<b>10</b>					None
<b>Semester 2</b>								
1	Research Methodology	DV-106	2	-	-	2		None
2	Techniques in Microbiology	DV-107	2	-	-	2		None
3	Advanced Medical Molecular Biology	DV -108	3	-	-	3		None
4	Community Medicine	DV-109	3	-	-	3		None
	<b>Total credit hours</b>		<b>10</b>			<b>10</b>		None
<b>Semester 3 (Clinical Training)</b>								
1	Clinical Rotation (Emergency)	-	-	3	-	1		-
2	Clinical Rotation (Internal Medicine)	-	-	9	-	3		-
3	Clinical Rotation (Pediatrics)	-	-	3	-	1		-
4	Clinical Rotation (Cosmetic Surgery)	-	-	9	-	3		-
	<b>Total Clinical hours</b>			<b>24</b>		<b>8</b>		-
<b>Semester 4 (Clinical Training)</b>								

اسم المقرر Course Title	رمز المقرر Code/ NO.	الساعات المعتمدة Credit Hours				عدد الايام الدراسية للمقرر	اجمالي الساعات المعتمدة للمقرر	المتطلبات القبليّة Pre- Requisites
		Theoretical	clinical	Months	الاجمالي Total C.H			
1	Clinical Rotation (Dermatology)	-	-	36	-	12		-
	<b>Total Clinical hours</b>	-	-	<b>36</b>	-	<b>12</b>		-
<b>Semester 5</b>								
1	Introduction to Dermatology	DV- 110	3	-	-	3		-
2	Dermatopathologic Diagnosis	DV- 111	3	-	-	3		-
3	Biopsy & Laboratory Techniques	DV- 112	3	-	-	3		-
4	Dermatitis & Dermatosis	DV- 113	3	-	-	3		-
5	Discoid Lupus Erythematosus & Scleroderma	DV- 114	3	-	-	3		-
6	Tumors & Tumor- like Lesions	DV- 115	3	-	-	3		-
7	Nevi & Melanomas	DV- 116	3	-	-	3		-
8	Bacterial & Viral Infections	DV- 117	3	-	-	3		-
10	Pediatric Dermatology	DV- 118	3	-	-	3		-
11	Cosmetic Dermatology	DV- 119	3	-	-	3		-
1	Hair Dermatology	DV- 120	3	-	-	3		-
	<b>Total credit hours</b>		30	-	-	30		
<b>Part 2</b>								
<b>Semester 6 (Clinical Training)</b>								
1	Advanced Clinical Rotation 1		-	36	-	12		
	<b>Total Clinical hours</b>	-	-	<b>36</b>	-	<b>12</b>		-

اسم المقرر Course Title	رمز المقرر Code/ NO.	الساعات المعتمدة Credit Hours				عدد الايام الدراسية للمقرر	اجمالي الساعات المعتمدة للمقرر	المتطلبات القبليّة Pre- Requisites
		Theoretical	clinical	Months	الاجمالي Total C.H			
<b>Semester 7</b>								
1	Dermatopathology	DV-121	4	-	-	4		-
2	Minor Surgery (Biopsy, Laser, etc.)	DV-122	4	-	-	4		-
	<b>Total credit hours</b>		8			8		-
<b>Semester 8 (Clinical Training)</b>								
1	Advanced Clinical Rotation 2		-	36	-	12		
	<b>Total Clinical hours</b>	-	-	36	-	12		-
<b>Semester 9 (Clinical Training)</b>								
1	Advanced Clinical Rotation 3		-	36	-	12		
	<b>Total Clinical hours</b>	-	-	36	-	12		-
<b>Semester 10</b>								
1	Thesis Defense & Publication		30	-		30		
	<b>Total credit hours</b>		30	-		30		
<b>إجمالي الساعات المعتمدة</b>								









<b>Teaching Strategy</b>		
<b>N</b>	<b>Teaching Strategy</b>	<b>Description</b>
1	<b>Lectures</b>	To provide foundational and advanced theoretical knowledge.
2	<b>Clinical Rotations</b>	Real-life clinical exposure under supervision in cardiac and vascular units.
3	<b>Skills Labs</b>	Simulation-based training on models and advanced surgical instruments.
4	<b>Seminars &amp; Case Discussions</b>	Student-led or supervised analysis of cases to encourage critical thinking.
5	<b>Research Activities</b>	Guided research projects and thesis development aligned with local needs.

<b>Assessment Strategy</b>		
<b>N</b>	<b>Assessment Strategy</b>	<b>Description</b>
1	<b>Written Examinations</b>	MCQs, SAQs, and essay questions to assess theoretical understanding.
2	<b>Clinical Examinations</b>	OSCEs and structured clinical evaluations during rotations
3	<b>Logbooks and Portfolios</b>	Tracking practical procedures and reflective learning
4	<b>Thesis Evaluation</b>	Proposal defense, final thesis submission, and oral viva
5	<b>Continuous Assessment</b>	Class participation, presentations, and attendance tracking.
٦	<b>Case Report Presentations</b>	Evaluation of analytical and communication skills.
٧	<b>Peer and Supervisor Feedback</b>	Regular feedback to support learning and identify areas of improvement.

<b>Study methods and system in the program:</b>
<b>Study system:</b> Full time
<b>Study methods in the program:</b> semesters
Students cannot advance to <b>Part 2</b> without completing <b>100% of Part 1 credits</b> .
<b>Thesis Extension:</b> Max 2 additional years (total program duration: 5 years).
<b>Failures:</b> Dismissal after 3 failed courses or a CGPA <2.5 for 2 consecutive semesters.
<b>Number of years needed for completion of the program:</b> 5 Years
<b>Total credit hours required to award the degree</b> 150 Credit Hours

### Admission Requirements for the Program

Required qualification	Medical MBBS degree or equivalent.
Required language	Good in English
Required computer skills	Good
Other requirements	Submission of academic transcripts, letters of recommendation, and a personal statement.

### Graduation Requirements:

#### 1- Total Credit Hours Required

**Minimum Credits for Graduation: 150 Credits**

**Coursework:** 130 credits (Theoretical + Clinical + Practical).

**Thesis:** 30 credits (Original research with defense).

#### 2- Minimum Passing Grades per Course

Course Type	Passing Grade	Grading Scale
Core Courses (Anatomy, Physiology, etc.)	70% (C+)	Excellent (90-100%), Very Good (80-89%), Good (70-79%), Fail (<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** (30 credits).

**Publication:** At least 3 conference presentation or journal submission.

## 6. Additional Requirements

**Licensing Exam:** Pass national exams

## المصادر والتجهيزات والامكانات اللازمة لتنفيذ البرنامج:

### Resource and equipment's needed for Program Implementations

مثل: مصادر التعلم/ التجهيزات والأدوات والمواد التعليمية/ المعامل والمختبرات وغيرها...

#### Resources and Equipment Needed for Program Implementation

##### 1. Learning Resources

- **Textbooks & References:**

- Derma anatomy atlases.
- Cosmetic Surgery textbooks.
- Peer-reviewed journals (*Journal of dermatology JAAD, JEADV*).

- **Digital Databases:**

- PubMed, Scopus, UpToDate (for evidence-based practice).
- E-learning platforms (e.g., Moodle/Blackboard for course materials).

- **Simulation Software:**

- Medline, Ovid, Cochrane, and google scholar (data base for academic research)
- Virtual dissection tools (e.g., *Complete Anatomy*).
- Derma surgical simulators (e.g., *Surgical Theater*).

##### 2. Educational Tools & Equipment

- **Anatomy/Surgical Instruments:**

- facial anatomical models.
- Basic surgical kits (scalpels, forceps, dermal biopsy punches).
- Suture training kits.

- **Visualization & Recording:**

- Surgical monitors for live demonstrations.
- High-definition surgical cameras.

- **Diagnostic Tools:**

- Reflectance confocal microscopy, Dermoscopy, skin ultrasound, dermatopathology ( skin imaging and dermatopathology case libraries).

##### 3. Laboratories & Facilities

- **Microbiology Lab:**

- Scraping tools and swabs for analysis in microbiological studies

- **Surgical Skills Lab:**
  - biopsy and simple minor skin surgery simulators
  - Procedure-specific models (e.g., shunt placement).
- **Computer Lab:**
  - skin analysis
  - Electronic Medical Record (EMR) systems.
- 4. Clinical Facilities**
  - **Operating Rooms (ORs):**
    - Minor surgery equipments
    - Ventilators for derma critical care.
  - **Outpatient Clinics:**
    - Specialty clinics (e.g., dermatology, venereology).
- 5. Human Resources**
  - **Faculty:**
    - Board-certified dermatologist with teaching experience and a strong academic background
    - Pathology / simulation lab technicians.

الكادر التدريسي:			
أستاذ مساعد	أستاذ مشارك	أستاذ	
٣	١	١	الكادر المطلوب
٤	٢	١	الكادر المتوفر
			ملاحظة

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