



**كلية الطب**  
**وحدة ضمان الجودة**



**Faculty of Medicine**  
**Quality Assurance Unit**

***Master (MSC) Degree Program and Courses Specifications for***  
***Dermatology, Venereology and andrology***














**(According to currently applied **Credit point bylaws**)**

**Department of Dermatology,  
Venereology and Andrology**  
***Faculty of medicine***  
***Assiut University***  
***2022-2023***

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## Master degree of Dermatology and Venereology

### A. Basic Information

-  **Program Title:** Master degree of Dermatology and Venereology
-  **Nature of the program:** Single.
-  **Responsible Department:** Department of Dermatology and Venereology & Andrology - Faculty of Medicine- Assiut University
-  **Program Academic Director (Head of the Department):**
  -  Prof. Dr. Eman Riad Mohamed
- Coordinator (s):**
  - **Principle coordinator:** Prof. Dr. Nagwa Essa Abd El-Azeem .
  - **Assistant coordinator (s)** Prof. Dr. Eman Riad Mohamed
    - Prof. Dr. Dalia Abdel-Aziz Ahmed
    - Prof. Dr. Sahar Abdel-Moez Ahmed
    - Prof. Dr. Emad Abdelraheem Taha
    - Dr. Ayman Mohamed Mahran
    - Dr. Hisham Diab Gaber
    - Dr. Marwa Mohammad Abdel-Hakeem
-  **Internal evaluators:** Prof Dr Ensaf Mohamed Abdelmagid
-  **External evaluator:** Prof Dr Essameldin Abdelaziz Nada
-  **Date of Approval by the Faculty of Medicine Council of Assiut University:** 23-9-2014
-  **Date of most recent approval of program specification by the Faculty of Medicine Council of Assiut University:** 27-11-2022
-  **Total number of courses:** 7 courses.
-  **First part :**5 courses.
-  **Second part:** 2 courses.
-  **Elective course:**1 course

## B. Professional Information

### 1- Program aims

1/1 To Enable the candidates to keep with the international standards of patient care by achieving high levels of:



a- Clinical skills.



b- Patient care skills.



c- Simple surgical maneuvers such as; skin and testicular biopsy.

1/2 To introduce the candidates to the basics of scientific research.

1/3 Enable them to start professional careers as specialists in Egypt.

1/4 Make them recognized as specialists abroad.

1/5 Enable them to pursue higher studies and degrees.

1/6 Enable them to understand and to get the best of published scientific research and to do their own research.

**2-Intended learning outcomes (ILOs)**  
***for the whole program:***

**2/1 Knowledge and understanding:**

**A- Explain essential facts and principles of the following basic sciences which are appropriate to Dermatology and Venereology** including pathology, Physiology, Biochemistry, Microbiology & Immunology, related to Dermatology, Sexually Transmitted diseases and Andrology

**B- Mention essential facts and principles of clinically supportive science** including Basics of Internal Medicine, Basics of General Surgery & plastic surgery and Psychiatry which are appropriate to the following areas of Dermatology, Sexually Transmitted diseases and Andrology.

**C-Demonstrate sufficient knowledge of etiology, clinical picture, diagnosis , prevention and treatment for diseases or situations related to Dermatology, Sexually Transmitted diseases and Andrology.**

**D- Give the recent and update developments in the pathogenesis, diagnosis, prevention and treatment of common diseases related to Dermatology, Sexually Transmitted diseases and Andrology.**

**E- Mention the basic ethical and medicolegal principles relevant to Dermatology, Sexually Transmitted diseases and Andrology.**

**F- Mention the basics of quality assurance to ensure good clinical care in the field of Dermatology, Sexually Transmitted diseases and Andrology.**

**G-Mention the ethical and scientific principles of medical research.**

**H- State the impact of common health problems in the field of Dermatology, Sexually Transmitted diseases and Andrology on the society and how good clinical practice improves these problems.**

## **2/2 Intellectual outcomes**

- A. Correlate the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases of the Dermatology, Sexually Transmitted diseases and Andrology.
- B. Demonstrate an investigatory and analytic thinking approach (problem solving) to common clinical situations related to Dermatology, Sexually Transmitted diseases and Andrology.
- C. Design and present a case or review (through seminars/journal clubs) in one or more of common clinical problems relevant to Dermatology, Sexually Transmitted diseases and Andrology field.
- D. Formulate management plans and alternative decisions in different situations in the field of the Dermatology, Sexually Transmitted diseases and Andrology.

## **2/3 Skills**

### **2/3/1 Professional (practical and clinical) skills (Patient Care)**

- A. Obtain proper history and examine patients in caring and respectful behaviors.
- B. Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment for common conditions related to Dermatology, Sexually Transmitted diseases and Andrology..
- C. Carry out patient management plans for common conditions related to Dermatology, Sexually Transmitted diseases and Andrology.
- D. Use information technology to support patient care decisions and patient education in common clinical situations related to Dermatology, Sexually Transmitted diseases and Andrology.
- E. Perform competently non invasive and invasive procedures considered essential for the Dermatology, Sexually Transmitted diseases and Andrology.

F. Provide health care services aimed at preventing health problems related to Dermatology, Sexually Transmitted diseases and Andrology.

G. Provide patient-focused care in common conditions related to Dermatology, Sexually Transmitted diseases and Andrology, while working with health care professionals, including those from other disciplines .

H. Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records)

### 2/3/2 General (transferable) skills

#### **Including:**

- Practice-based Learning and Improvement
- Interpersonal and Communication Skills
- Professionalism
- Systems-based Practice

#### **Practice-Based Learning and Improvement**

- A. Perform practice-based improvement activities using a systematic methodology (share in audits and risk management activities and use logbooks).
- B. Appraises evidence from scientific studies.
- C. Conduct epidemiological Studies and surveys.
- D. Perform data management including data entry and analysis and using information technology to manage information, access on-line medical information; and support their own education.

- E. Facilitate learning of students and other health care professionals including their evaluation and assessment.

### **Interpersonal and Communication Skills**

- F. Maintain therapeutic and ethically sound relationship with patients.
- G. Elicit information using effective nonverbal, explanatory, questioning, and writing skills.
- H. Provide information using effective nonverbal, explanatory, questioning, and writing skills.
- I. Work effectively with others as a member of a health care team or other professional group.

### **Professionalism**

- J. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society
- K. Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, business practices
- L. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities

### **Systems-Based Practice**

- M. Work effectively in relevant health care delivery settings and systems including good administrative and time management.
- N. Practice cost-effective health care and resource allocation that does not compromise quality of care.
- O. Assist patients in dealing with system complexities.

### 3- Program Academic Reference Standards (ARS) (Annex 2)

#### Academic standards for master degree in Dermatology and Venereology

Assiut Faculty of Medicine developed master degree programs' academic standards for different clinical specialties.

In preparing these standards, the General Academic Reference Standards for post graduate programs (GARS) were adopted. These standards set out the graduate attributes and academic characteristics that are expected to be achieved by the end of the program.

These standards were approved by the Faculty Council on 17-6-2009. These standards were revised and approved without changes by the Faculty Council on 23-9-2014. These standards were recently revised and reapproved without changes by the Faculty Council on 27-11-2022.

### 4- Program External References(Benchmarks)

1. ACGME (Accreditation Council for Graduate Medical education).
2. University of Michigan Health System , Dermatology and Dermatopathology fellowships program  
(<http://www.med.umich.edu/derm/education/dermpathfel.shtml>)

### 5. Program Structure and Contents

**A. Duration of program:** 3 – 5 years

**B. Structure of the program:**

Total contact number of credit points 180 point (20 out of them for thesis)

**Didactic# 40 (22.2 %), practical 120 (66.7%), thesis 20 (11.1%), total 180 CP.**

**First part**

**Didactic 14 (35 %), practical 24 (60 %), elective course 2 CP (5%), total 40**

**Second part**

**Didactic 24 ( 20%), practical 96 ( 80 %), total 120**

**# Didactic (lectures, seminars, tutorial)**

**According the currently applied credit points bylaws:**

Total courses 160 credit point

Compulsory courses: 98.9%

Elective course: 2 credit point =1.25%

	<b>Credit points</b>	<b>% from total</b>
Basic science courses	24	13.3%
Humanity and social courses	2	1.1%
Speciality courses	134	74.5%
Others ( Computer, ...)		
Field training	120	66.7%
Thesis	20	11.1%

### **C. Program Time Table**

#### **A. Duration of program 3 years maximally 5 years divided into**

##### **○ Part 1: (One year)**

Program-related basic science courses and ILOs

Students are allowed to sit the exams of these courses after 12 months from applying to the MSc degree.

One elective course can be set during either the 1<sup>st</sup> or 2<sup>nd</sup> parts.

- **Thesis**

For the M Sc thesis;

MSc thesis subject should be officially registered within 6 months from application to the MSc degree,

Discussion and acceptance of the thesis could be set after 12 months from registering the MSc subject;

It should be discussed and accepted before passing the second part of examination)

- **Part 2 (2 years)**

Program –related speciality courses and ILOs

Students are not allowed to sit the exams of these courses before 3 years from applying to the MSc degree.

The students pass if they get 50% from the written exams and 60% from oral and clinical /practical exams of each course and 60% of summation of the written exams, oral and clinical/practical exams of each course

Total degrees 1900 marks.

700 marks for first part

1200 for second part

Written exam 40% - 70%.

Clinical/practical and oral exams 30% - 60%.

## D. Curriculum Structure: (Courses):

 courses of the program:

courses	Course Code	Core Credit points		
		Lectures	training	total
First Part				
Basic science courses (8CP) Course 1: Pathology Course 2: Physiology, Biochemistry and Microbiology and mycology	DVA205  DVA221A#	3 5(1.5+1.5+2)	- -	3 5
General clinical compulsory courses (6 points) Course 3: Internal medicine. Course 4: General surgery& Plastic surgery Course 5: Psychiatry	DVA218  DVA221B# DVA220	3  2(1+1) 1	5  3.5(2+1.5) 1.5	8  5.5 2.5
Elective courses*	2CP			
- Elective course				
Clinical training and scientific activities:				
Clinical training and scientific activities:(10 CP)	DVA218  DVA221B#  DVA220		10	10
Clinical training and scientific activities in			14	14

<b>Speciality course (14 CP)</b> <b><u>Course 6:</u></b> <b><u>Dermatology</u></b> <b><u>Course 7:Venorology</u></b> <b><u>and Anderology</u></b>	DAV221C		9	9
	DAV221D		5	5
<b>Total of the first part</b>		<b>16</b>	<b>24</b>	<b>40</b>
<b>Second Part</b>	Speciality courses 24 CP Speciality Clinical Work (log Book) 96 CP			
Speciality Courses		<u>24</u>		<b>24</b>
Course 6:Dermatology	DAV221C	15		
Course 7:venerology & andrology	DAV221D	9		
<b>Training and practical activities in speciality (96 CP) (96 CP)</b>			<u>96</u>	<b>96</b>
Course 6:Dermatology	DAV221C		60	
Course 7:venerology & andrology	DAV221D		36	
<b>Total of the second part</b>				<b>96</b>
<b>Thesis</b>				<b>20</b>
<b>Total of the degree</b>				<b>180</b>

### # Didactic (lectures, seminars, tutorial)

\* Elective courses can be taken during either the 1<sup>st</sup> or 2<sup>nd</sup> parts.

### Student work load calculation:

Work load hours are scheduled depending on the type of activities and targeted competences and skills in different courses

### Elective Courses#:

- Medical statistics.
- Evidence based medicine.
- Medicolegal Aspects and Ethics in Medical Practice and Scientific Research
- Quality assurance of medical education
- Quality assurance of clinical practice.
- Hospital management

# One of the above mentioned courses are prerequisites for fulfillment of the degree.

### Thesis:

20 CP are appointed to the completion and acceptance of the thesis.

### Speciality courses rotation:

Course Titles' list	% from total credit points	Level (Year)	Core Credit points		
			Didactic	training	Total
1)course 6 " Dermatology "	62.7%	1,2&3	15	69	84
2)course 7 " Venerology and Andrology"	37.3%	1,2&3	9	41	50
Total No. of courses: 2 courses	100%	1,2&3	24	110	134

## 6. Courses Contents (Annex 1)

The competency based objectives for each course/module/rotation are specified in conjunction with teaching/training methods, requirements for achieving these objectives and assessment methods.

See Annex 1 for detailed specifications for each course/ module

## 7-Admission requirements

### Admission Requirements (prerequisites) if any :

#### I. General Requirements:

- a. MBBCh Degree form any Egyptian Faculties of Medicine
- b. Equivalent Degree from medical schools abroad approved by the Ministry of Higher Education
- c. One year appointment within responsible department (for non Assiut University based registrars)

#### II. Specific Requirements:

- a. Fluent in English (study language)

### VACATIONS AND STUDY LEAVE

The current departmental policy is to give working residents **1: 3** weeks leave prior to first/ second part exams.

### FEES:

As regulated by the postgraduate studies rules and approved by the faculty vice dean of post graduate studies and the faculty and university councils.

## 8-Progression and completion requirements

- ✚ Examinations of the first part could be set at 12 months from registering to the MSc degree.
  - ✚ Examination of the second part cannot be set before 3 years from registering to the degree.
  - ✚ Discussion of the MSc thesis could be set after 1 year from officially registering the MSc subject before setting the second part exams.
- ✚ The minimum duration of the program is 3 years.

### The students are offered the degree when:

1. Passing the exams of all basic science, elective and speciality courses of this program as regulated by the post graduates approved rules by the faculty council.
2. Completing all scheduled CP and log book (minimum 80%).
3. Discussion and acceptance of the MSc\_thesis.

## 9- Program assessment methods and rules (Annex IV)

Method	ILOs measured
Written examinations: Structured essay questions Objective questions: MCQ Problem solving	K & I
Clinical: Long/short cases OSCE	K ,I, P &G skills
Structured oral	K ,I &G skills
Logbook assessment	All
Research assignment	I &G skills

### Weighting of assessments:

Courses		Degrees			
First Part	Course code	Written Exam	Degree		Total
			Oral Exam *	Practical / Clinical Exam	
First part					
Basic academic Courses:					
Pathology	DVA205	90	60	-	150
Physiology&Biochemistry& Microbiology& Mycology	DVA221A#	150(50+50+50)	100(25+25+50)	-	250
General clinical courses					
Course 3Internal medicine	DVA218	90	60		150
Course 4:General surgery& Plastic surgery	DVA221B#	40(20+20)	30(15+15)	30(15+15)	100
Course 5: Psychiatry	DVA220	30	20	-	50
Total of the first part		400	270	30	700
Second Part					
Speciality Courses:					
Course 6 : Dermatology Paper 1 Paper 2	DVA221C	150+ 150	225	225	750
Course 7: Unit 1: Venorology paper 1 Unit 2: andrology paper 2	DVA221D	150+ 150	75	75	450
Total of the degree		600	300	300	1200
Elective course		50	50		

\* 25% of the oral exam for assessment of logbook

**Total degree 1900**

**700 marks for first part**

**1200 for second part**

**Written exam 47.2 % (900 marks).**

**Clinical/practical and oral exams 52.8 % (1000 marks)**

**100 marks for elective course.**

### **Examination system:**

#### ➤ **First part:**

- Written exam in Pathology 3hours+ Oral exam.
- Written exam 3hours in Biochemistry, Physiology and Microbiology & Mycology + Oral exam
- Written exam 3hours in Internal Medicine and General Surgery+ Oral exam+ Clinical exam
- Written exam 2 hours in General Surgery and plastic surgery+ Oral exam+ Clinical exam
- Written exam 1 hour in Psychiatry + Oral exam

#### ➤ **Second part:**

- Written exam 2 papers for Dermatology course (2 papers), +2 papers for Andrology (1paper) and Venereology course (1paper) 3 hours for each paper + Oral exam+ Clinical /practical exam.

#### ➤ **Elective courses**

- Written exam one paper 1 hour in Elective course + Oral & Practical exam

## 10-Program evaluation

By whom	Method	sample
Quality Assurance Unit	Reports Field visits	#
External Evaluator (s):According to department council External Examiner (s): According to department council	Reports Field visits	#
Stakeholders	Reports Field visits Questionnaires	#
Senior students	Questionnaires	#
Alumni	Questionnaires	#

1- Quality Assurance Unit of Assiut Faculty of Medicine:

2- External Evaluator (s): –

- Prof Dr Essameldin Abdelaziz Nada, Prof. of dermatology, venereology and andrology, Sohag University.
- Prof. Dr. Sami Hanafy, Prof. of Andrology, Benha University
  - Prof. Dr. Attia Abdullah Attia, Prof. of Andrology, El Monofia University

3- External Examiner (s): As annually approved by staff members of the Dep. Of Dermatology, Venereology & Andrology, Assiut University.

4- Stakeholders of graduée: Questionnaires

5- Senior students

6- Alumni

\* Evaluation reports will be collected from sample of the above mentioned contributors.

**#Annex 5 contains evaluation templates and reports (Joined in the departmental folder).**

<b>11-Declaration</b>
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**We certify that all of the information required to deliver this program is contained in the above specification and will be implemented.**

**All course specifications for this program are in place.**

Contributor	Name	Signature	Date
▪ <b>Program Principle Coordinator:</b>	Prof. Dr. Nagwa Essa Abd El-Azem		
▪ <b>Head of the Responsible Department (Program Academic Director):</b>	Prof. Dr. Eman Riad Mohamed		










# Annex 1, Specifications for Courses / Modules

## Annex 1: specifications for courses/

### Course 1- Pathology

- **Name of department:** Department of Dermatology, Venereology and Andrology
- **Faculty of medicine**
- **Assiut University**
- **2022-2023.**

#### 1. Course data

-  **Course Title:** Pathology
-  **Course code:** DVA205
-  **Speciality** Dermatology, Venereology and Andrology
-  **Number of points:** Didactic3 CP (100%); 0 CP for training and total; 3CP.
-  **Department (s) delivering the course:** Pathology  
Department in conjunction with Department of Dermatology, Venereology and Andrology as annually approved by both departments councils.
-  **Coordinator (s):**  
Staff members of Pathology Department in conjunction with Staff members of Department of Dermatology, Venereology and Andrology as annually approved by both departments councils.
-  **Date last reviewed:** 4/2022
-  **General requirements (prerequisites) if any :** none
-  **Requirements from the students to achieve course ILOs are clarified in the joining log book.**

## 2. Course Aims

Acquire the student basic pathology facts necessary to dermatology , venenerology, and andrology

## 3. Course intended learning outcomes (ILOs):

### A- Knowledge and understanding

ILOs	Methods of teaching/ learning	<i>Methods of Evaluation</i>
<p>A. Identify the principle of general pathology;</p> <ul style="list-style-type: none"> <li>• . Histology of skin.</li> <li>• Inflammation-Pathogenesis.</li> <li>• Inflammation-Types.</li> <li>• Healing-mechanism.</li> <li>• Wound healing and complication.</li> <li>• Gross Pathological skin lesions and its pathological background.</li> <li>• Basic pathological changes of the skin (epidermal and dermal).</li> <li>• Major histopathological patterns in different skin diseases.</li> <li>• Techniques for biopsy</li> </ul>	<p>Lectures Didactics</p>	<p>Written and oral examination  Log book</p>
<p>B. Define the main dermatological disease categories that may affect the body including the following:</p> <ul style="list-style-type: none"> <li>-general pathology as mentioned in A.</li> <li>- basic mechanisms underlying these disorders (etiology, pathogenesis &amp; natural history). Of the following:               <ul style="list-style-type: none"> <li>• Granulomas.</li> </ul> </li> <li>- Neoplasia (classification and method of diagnosis)</li> <li>- Tumours of epithelial tissue (benign and malignant).</li> </ul>		

<ul style="list-style-type: none"> <li>• Tumours of blood vessels (benign and malignant).</li> <li>• Tumours of testis.</li> <li>• Tumours of pigmented cells (benign and malignant)</li> </ul>		
C. Describe the morphologic (gross & microscopic) changes occurring as a result of dermatologic diseases mentioned in B		

### **B- Intellectual outcomes**

<b>ILOs</b>	<b>Methods of teaching/ learning</b>	<b>Methods of Evaluation</b>
A. Correlates the facts of histopathology with clinical reasoning, diagnosis and management of common diseases related to Dermatology, venerology and Andrology.	Lectures Didactics	Written and oral examination  Log book
B. Predict the symptoms and signs of a disease based on the underlying gross & microscopic tissue		
C. Design and present cases , seminars in common problem		
D- Interpretation of a pathology report in a professional manner		

### **C-Practical skills (Patient Care)**

**Practical skills =0 CP**

### **D General Skills**

### **Practice-Based Learning and Improvement**

<b>ILOs</b>	<b>Methods of teaching/ learning</b>	<b>Methods of Evaluation</b>
Appraises evidence from scientific studies(journal club)	Lectures	Logbook
Perform data management including data entry and analysis.		
Facilitate learning of junior students and other health care professionals.		

### Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
D.Elicit information using effective nonverbal, explanatory, questioning, and writing skills.	-Observation -Senior staff experience	Logbook
E.Provide information using effective nonverbal, explanatory, questioning, and writing skills.		

### Professionalism

ILOs	Methods of teaching/ learning	Methods of Evaluation
F.Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society	-Observation -Senior staff experience	Logbook
G.Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		

### Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
H. Work effectively in relevant health care delivery settings and systems.	-Observation -Senior staff experience	Logbook

#### 4. Course contents (topic s/modules/rotation Course Matrix

##### Time Schedule: First Part

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
Histology of skin	A	-	-	B,D,E
Inflammation-Pathogenesis	A	A-C	-	B,D,E
Inflammation-Types	A,B	A	-	B,D,E
Healing-mechanism	A,B	A	--	B,D,E
Wound healing and complication	A,B	A	-	B,D,E
Gross Pathological skin lesions and its pathological background	A,B	A	-	B,D,E
Basic pathological changes of the skin (epidermal and dermal)	A,B	A	-	B,D,E
Major histopathological patterns in different skin diseases	A-C	A	-	B,D,E
Techniques for biopsy	A	A	-	B,D,E
Granulomas	B,C	A-C	-	A-H
Neoplasia (classification and method of diagnosis)	B,C	A-C	-	A-H
Tumours of epithelial tissue (benign and malignant)	B,C	A-C	-	A-H
Tumours of blood vessels (benign and malignant)	B,C	A-C	-	A-H
Tumours of testis	B,C	A-C	-	A-H
Tumours of pigmented cells (benign and malignant)	B,C	A-C	-	A-H

## 5. Course Methods of teaching/learning:

1. Lectures
2. Laboratory work

## 6. Course Methods of teaching/learning: for students with poor achievements

- Lectures
- Laboratory work

## 7. Course assessment methods:

### . Assessment tools:

- a. Written (90) and oral examination (60) including practical skills assessment
- b. Log book

### ii. Time schedule: AT THE END OF 1<sup>ST</sup> PART

### iii. Marks: 150(90 for written exam+ 60 for oral exam).

## 8. List of references

1- Course Notes

2- ***Essential Books (Text Books):***

- Lever's Histopathology of the skin 11<sup>th</sup> edition, Paperback – January 1, 2019

**3- Recommended book: Arthur Rook text book of Dermatology 9<sup>th</sup> edition – 2017,**

Christopher E. M. Griffiths (Editor), Jonathan Barker (Editor), Tanya O. Bleiker (Editor), Robert Chalmers (Editor), Daniel Creamer (Editor).

**4- Periodicals, Web sites, pubmed... etc**

## 9. Signatures

<b>Course Coordinator:</b>	<b>Head of the Department:</b>
<b>Date:</b>	<b>Date:</b>

## Course 2 Physiology, Biochemistry and Microbiology & Mycology


### Course 2; unit1: physiology :


- **Name of department: Dermatology, Venereology and Andrology**
- **Faculty of medicine , Assiut University**
- **2022-2023**

### **I. Module data**

 **Module Title:** physiology

 **Course code:** DVA221A#


 **Speciality :** Dermatology, Venereology and Andrology

 **Number of CP :** 1.5 (100% didactic) and 0CP for training and total 1.5CP

 **Department (s) delivering the course:** physiology

Department in conjunction with Department of Dermatology, Venereology and Andrology as annually approved by both departments councils.

#### **Coordinators :**

 **Staff members of :** physiology Department in conjunction with **Staff members of** Department of Dermatology, Venereology and Andrology as annually approved by both departments councils.

 **Date last reviewed:** 4/2022

 **Requirements (prerequisites) if any :**

Requirements from the students to achieve course ILOs are clarified in the joining log book

## 2. module Aims

a- Provide appropriate level of physiology knowledge necessary to dermatology, venorology and andrology.

## 3. intended learning outcomes (ILOs):

### A- Knowledge and understanding

	Methods of teaching/ learning	Methods of Evaluation
<p>A. Describe basic Physiologic details related to dermatology and venorology of the following :</p> <ul style="list-style-type: none"><li>- physiology of skin,</li><li>- male and female reproductive physiology.</li></ul> <p>B- Understand the sensory function of skin and itching, physiology of skin pigmentation,</p> <p>C. Recognize the skin as an organ and how it interacts with different body systems and homeostasis through neural and hormonal control and related disturbance.</p>	Lectures And practical	Written and oral examination  Log book

## B) Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Correlates the facts of <b>basic</b> Physiology with clinical reasoning, diagnosis and management of Dermatology and Andrology <b>diseases including</b> differentiation between different functions of the skin, sensory function; pain, itching, pigmentation, sweating, thermoregulation and male reproduction	Didactic (lectures, seminars, tutorial)	-Written and oral examination -Log book
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches to the effect of disturbance in the physiology of skin will affect many organs and disturb homeostasis.		

## C) Practical and Professional Skills

Practical skills =0 CP

### D General Skills

### Practice-Based Learning and Improvement

ILOs	Methods of teaching/ learning	Methods of Evaluation
A.Appraises evidence from scientific studies(journal club)	Lectures	Logbook
B.Perform data management including data entry and analysis.		
C. Facilitate learning of junior students and other health care professionals.		

## Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
D. Elicit information using effective nonverbal, explanatory, questioning, and writing skills.	-Observation -Senior staff experience	Logbook
E. Provide information using effective nonverbal, explanatory, questioning, and writing skills.		

## Professionalism

ILOs	Methods of teaching/ learning	Methods of Evaluation
F. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society	-Observation -Senior staff experience	Logbook
G. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		

## Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
H. Work effectively in relevant health care delivery settings and systems.	-Observation -Senior staff experience	Logbook

**Module contents (topic s/modules/rotation)**  
**Module Matrix**

**Time Schedule: First Part**

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
Homeostasis	C	A,B	-	A-H
Pain	C	A,B	-	A-H
Thermoregulation	C	A,B	-	A-H
Fever	C	A,B	-	A-H
Urine formation	C	A,B	-	A-H
Renal failure	C	A,B	-	A-H
Acid- Base balance	C	A,B	-	A-H
Disturbance of Acid- Base disturbance	C	A,B	-	A-H
Water and Electrolyte Regulation	C	A,B	-	A-H
Blood elements	C	A,B	-	A-H
Anemia	C	A,B	-	A-H
Capillary Circulation	A,C	A,B	-	A-H
Tissue fluid formation	A	A,B	-	A-H
Oedema	A ,C	A,B	-	A-H
Functions of the skin	A	A,B	-	A-H
Physiology of Itching	B	A,B	-	A-H
Physiology of Male Reproduction	A	A,B	-	A-H
Physiology of Female Reproduction	A	A,B	-	A-H
Infertility	A	A,B	-	A-H
Skin Circulation	A	A,B	-	A-H
Dermographism	B	A,B	-	A-H
Sensory Functions of skin	B	A,B	-	A-H
Itching	B	A,B	-	A-H

Physiology of Pigmentation	<b>B</b>	<b>A,B</b>	-	<b>A-H</b>
Skin manifestation of Endocrinal Diseases	<b>B</b>	<b>A,B</b>	-	<b>A-H</b>
Physiology of Eccrine sweat glands	<b>A</b>	<b>A,B</b>	-	<b>A-H</b>
Physiology of Apocrine sweat glands	<b>A</b>	<b>A,B</b>	-	<b>A-H</b>
Physiology of Sebaceous glands	<b>A</b>	<b>A,B</b>	-	<b>A-H</b>
Physiology of Hair	<b>A</b>	<b>A,B</b>	-	<b>A-H</b>
Hair cycle	<b>A</b>	<b>A,B</b>	-	<b>A-H</b>

#### **5. Module Methods of teaching/learning:**

- Didactic (lectures, seminars, tutorial)
- Observation
- Senior staff experience
- **Laboratory work**

#### **6. Module Methods of teaching/learning: for students with poor achievements**

- Didactic (lectures, seminars, tutorial)
- Observation
- Senior staff experience

#### **7. Module assessment methods:**

##### **i. Assessment tools:**

- Written and oral examination .
- Log book

##### **ii. Time schedule: end of first part**

##### **iii. Marks: 75 marks( 50 for written+ 25 for oral).**

## 8. List of references

8.1- Course Notes specific for each lecturer (Paper and / or electronic).

### **8.2- Essential Books (Text Books):**

-Review of medical physiology By: William F. Ganong  
Text Book of medical physiology By : Guyton. 12th Edition,2020.






8.3- Periodicals, Web Sites, ... etc.

www . Pubmed. Com, Am. J. of physiology




## Course 2; unit2: Biochemistry

- **Name of department: Dermatology, Venereology and Andrology**
- **Faculty of medicine , Assiut University**
- **2022-2023.**

### **I. Module data**

-  **Module Title:** Biochemistory
-  **Course code:** DVA221A#
-  **Speciality :** Dermatology, Venereology and Andrology
-  **Number of CP :** 1.5 (100% didactic) ; 0 for training and total 1.5CP
-  **Department (s) delivering the course:** Biochemistory  
Department in conjunction with Department of Dermatology, Venereology and Andrology as annually approved by both departments councils.

#### **Coordinators :**

-  **Staff members of** Biochemistory Department in conjunction with **Staff members of** Department of Dermatology, Venereology and Andrology as annually approved by both departments councils.
-  **Date last reviewed:** 4/2022
-  **Requirements (prerequisites) if any :**  
Requirements from the students to achieve course ILOs are clarified in the joining log book

## 2. module Aims

a- Provide appropriate level of biochemistry knowledge necessary to dermatology, venorology and andrology.

## 3. intended learning outcomes (ILOs):

### A) Knowledge and understanding

ILOs	Methods of teaching	Methods of Evaluation
<p>A. Describe the principles of the following:</p> <ul style="list-style-type: none"><li>-The biology of skin,</li><li>- Male and female reproductive hormonal biology.</li><li>- Molecular biology .</li><li>- The importance of diagnostic enzymology and tumor markers.</li></ul> <p>B. illustrate the facts of normal synthesis and metabolism related to dermatological diseases of the following:</p> <ul style="list-style-type: none"><li>- carbohydrates,</li><li>- lipids,</li><li>- proteins,</li><li>- vitamins and mineral,</li><li>- their abnormal metabolism related to dermatology .</li></ul> <p>C. Memorize the facts and principles of: the relevant biochemistry related to the skin as an organ and</p>	<p>Lectures Didactics</p>	<p>Written and oral examination</p> <p>Log book</p>

- skin interaction with different body systems and homeostasis through hormonal control.		
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### B)Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
Correlates the facts of <b>biochemistry</b> with clinical reasoning, diagnosis and management of Dermatology and Andrology <b>diseases including</b> differentiation between different metabolic skin diseases and its biologic related pathology.	Didactic (lectures, seminars, Laboratory)	-Written and oral examination -Log book

### C) Practical Skills

Practical skills = OCP

### D- General Skills

#### Practice-Based Learning and Improvement

ILOs	Methods of teaching/ learning	Methods of Evaluation
Appraises evidence from scientific studies(journal club)	Lectures	Logbook
Perform data management including data entry and analysis.		
Facilitate learning of junior students and other health care professionals.		

### Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
Elicit information using effective nonverbal, explanatory, questioning, and writing skills.	-Observation -Senior staff experience	Logbook
Provide information using effective nonverbal, explanatory, questioning, and writing skills.		

### Professionalism

ILOs	Methods of teaching/ learning	Methods of Evaluation
Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society	-Observation -Senior staff experience	Logbook
Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		

### Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
Work effectively in relevant health care delivery settings and systems.	-Observation -Senior staff experience	Logbook

#### 4. Module contents (topic s/modules/rotation Module Matrix

##### Time Schedule: First Part

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skill	Ge S
Introduction to metabolism	B	A	-	A
Carbohydrates metabolism	B	A	-	A
Lipid metabolism	B	A	-	A
Protein content of the body	B	A	-	A
Metabolism of proteins	B	A	-	A
Synthesis of important components from amino acids	B	A	-	A
Hormones	A	A	-	A
Heme metabolism	C	A	-	A
Mineral metabolism	B	A	-	A
Vitamins and Disease	B	A	-	A
Hyperuricemia	B	A	-	A
Blood coagulation	C	A	-	A
Diagnostic enzymology	A	A	-	A
Tumor markers	A	A	-	A
Hepatitis markers	A	A	-	A
Free radicals and disease	C	A	-	A
Molecular Biology	A	A	-	A

#### 5. Module Methods of teaching/learning:

1. Didactic (lectures, seminars, tutorial)
2. Observation
3. Senior staff experience
4. **Laboratory work**

## **6. Module Methods of teaching/learning: for students with poor achievements**

- A. Didactic (lectures, seminars, tutorial)
- B. Observation
- C. Senior staff experience
- D. Laboratory work

## **7. Module assessment methods:**

### **i. Assessment tools:**

- Written and oral examination including practical assessment skills
- Log book

### **ii. Time schedule: AT the end of 1<sup>st</sup> part**

### **iii. Marks: 75 marks ( 50 for written+ 25 for oral).**

## **8. List of references**

**8.1-** Course Notes specific for each lecturer Paper and / or electronic).

### **8.2- Essential Books (Text Books):**

- Harper's Biochemistry.32nd edition,2023, by Peter Kennelly (Author), Kathleen Botham (Author), Owen McGuinness (Author), Victor Rodwell (Author), P. Anthony Weil (Author).

### **8.3 -Recommended books:**

Lippincott's Illustrated Biochemistry, by Denise Ferrier (Author),7th edition,2017.

### **8.4- Periodicals, Web Sites**

e.g. www. Pubmed.com.

## Course 2; unit3: Microbiology, Mycology and Immunology

- **Name of department: Dermatology, Venereology and Andrology**
- **Faculty of medicine , Assiut University**
- **2022-2023**

### I. Module data

- ✚ **Module Title: : Microbiology, Mycology and Immunology**
- ✚ **Course code: DVA221A#**
- ✚ **Speciality : Dermatology, Venereology and Andrology**
- ✚ **Number of CP : 2 CP for didactic, lecture, tutorial teaching**
- ✚ **Department (s) delivering the course:** Microbiology and Immunology Department in conjunction with Department of Dermatology, Venereology and Andrology as annually approved by both departments councils.

#### **Coordinators :**

- ✚ **Staff members of** Microbiology and Immunology Department in conjunction with **Staff members of** Department of Dermatology, Venereology and Andrology as annually approved by both departments councils.
- ✚ **Date last reviewed: 4-2022**
- ✚ **Requirements (prerequisites) if any :**  
Requirements from the students to achieve course ILOs are clarified in the joining log book

## 2. Module Aims

a- Provide appropriate level of Microbiology, mycology and Immunology knowledge necessary to dermatology, venorology and andrology.

## 3. intended learning outcomes (ILOs):

### A) Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
<p>A. Describe the <b>Microbiology. mycology and Immunology</b> principles related to dermatological and venereal diseases including:</p> <ul style="list-style-type: none"> <li>- general bacterial morphology, physiology and genetic</li> <li>- the host parasite relationship and microbial pathogenesis.</li> <li>-the basics of antimicrobial uses and resistance.</li> </ul> <p>B..Explain the physiology of the immune system, its beneficial role, as well as its detrimental role in hypersensitivity, autoimmunity and transplant rejection.</p> <p>C. Illustrate the following :</p> <ul style="list-style-type: none"> <li>- the morphology, culture, antigenic structure and virulence factors of dermatologic microorganisms to outline the diagnosis, treatment, prevention and control of these diseases.</li> <li>- the impact of molecular technology in microbiology and immunology .</li> </ul>	<p>Lectures Didactics</p>	<p>Written and oral examination</p> <p>Log book</p>

### B- Intellectual outcomes

ILOs	Methods of teaching/ Learning	Methods of Evaluation
A. Correlates the facts of Microbiology and Immunology with clinical reasoning, diagnosis and management of common diseases related to Dermatology, venerology and Andrology	Didactic (lectures, seminars, tutorial)	-Written and oral examination -Log book
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches for laboratory diagnosis of common dermatologic or venereal diseases and select the most appropriate and cost-effective tool leading to the identification of the causative organism.		
C- Categorize a microorganism as a bacterium, virus or fungus according to standard taxonomy.		
D- Report and appraise a concise scientific activity according to standard scientific thinking and integrity.		

### C) Practical Skills

Practical skills= 0 CP

### D) General Skills

#### Practice-Based Learning and Improvement

ILOs	Methods of teaching/ Learning	Methods of Evaluation
Appraises evidence from scientific studies(journal club)	Lectures	Logbook
Perform data management including data entry and analysis.		
Facilitate learning of junior students and other health care professionals.		

## Interpersonal and Communication Skills

ILOs	Methods of teaching/ Learning	Methods of Evaluation
Elicit information using effective nonverbal, explanatory, questioning, and writing skills.	-Observation -Senior staff experience	Logbook
Provide information using effective nonverbal, explanatory, questioning, and writing skills.		

## Professionalism

ILOs	Methods of teaching/ Learning	Methods of Evaluation
F.Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society	-Observation -Senior staff experience	Logbook
G.Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		

## Systems-Based Practice

ILOs	Methods of teaching/ Learning	Methods of Evaluation
H.Work effectively in relevant health care delivery settings and systems.	-Observation -Senior staff experience	Logbook

**4. Module contents (topic s/modules/rotation**  
**Module Matrix**

**Time Schedule: First Part**

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
Bacterial structure, physiology, and classifications Bacterial genetics, antibacterial agents, mechanism of actions and resistance	A	A-D	-	A-E
Staphylococci, Streptococci, and Enterococci	A	A-D	-	A-E
Clostridia and other Gram positive bacilli (Corynebacteria, Listeria, bacillus group, and Actinomycosis)	A	A-D	-	A-E
Nisseria, Porvobacteria (Haemophilus, Bordetella, Brucella, Legionella, Yersinia, Pasteurella)	A	A-D	-	A-E
Enterobacteriaceae	A	A-D	-	A-E
Pseudomonas, Vibrios, Campylobacter, Helicobacter Gram negative anaerobic bacteria	A	A-D	-	A-E
Spirochetes, Mycobacteria, Chlamydia, Mycoplasma, Rickettsia	A	A-D	-	A-E
Basic mycology: classification and antifungal agents	A	A-D	-	A-E

Basic virology ,major virus group	<b>C</b>	<b>A-D</b>	-	<b>A-E</b>
Basic immunology: immune response(tissues and cells, types)	<b>B</b>	<b>A-D</b>	-	<b>A-E</b>
Humoral immunity, Immunoglobulins, Complement,Ag-Ab reactions)	<b>B</b>	<b>A-D</b>	-	<b>A-E</b>
Cell mediated immunity,Cytokines, Immunity to bacterial infections and immunoprophylaxis	<b>B</b>	<b>A-D</b>	-	<b>A-E</b>
Hospital acquired infections and infection control	<b>A</b>	<b>A-D</b>	-	<b>A-H</b>
Hypersensitivity	<b>B</b>	A-D	-	<b>A-E</b>
Autoimmunity and tumor immunology	<b>B,C</b>	A-D	-	<b>A-E</b>
Transplantation immunity	<b>B</b>	A-D	-	<b>A-H</b>
Immunodeficiency and infections in immunocompromised host	<b>B</b>	A-D	-	<b>A-H</b>
Sterilization and disinfection	<b>A</b>	A-D	-	<b>A-H</b>
Sexually transmitted infections	<b>A</b>	A-D	-	<b>A-H</b>
Septicaemia, Bacteraemia, FUO	<b>A,C</b>	A-D	-	<b>A-H</b>
Skin and soft tissue infections	<b>A,C</b>	A-D	-	<b>A-H</b>

### **5 Course Methods of teaching/learning:**

- i. Lectures**
- ii. Laboratory work**

## 6 Course Methods of teaching/learning: for students of limited abilities

1. Lectures
2. Laboratory work

## 7- Course assessment methods:

### i. Assessment tools:

- Written and oral examination 33.3 degree for each
- Log book

### ii. Time schedule: at the end of 1<sup>st</sup> part.

### iii. Marks 100(50 for written+ 50 for oral).

## 8. List of references

**-Course Notes**

**-Essential book:**

Gordon Reeves – Basic Immunology 4<sup>th</sup> edition, 2017

**-Recommended textbook:**

-Rook, Wilkinson and Ebling – Textbook of dermatology 9<sup>th</sup> edition, 2017

**-Periodicals, Web Sites, [www.pubmed.com](http://www.pubmed.com)**

## 9. Signatures

Course coordinator	
Module 1 Coordinator:	Head of the Department: .....
Date:	Date:
Module 2 Coordinator:	Head of the Department: .....
Date:	Date:
Module 3 Coordinator:	Head of the Department: .....
Date:	Date:

### Course 3: Internal medicine.

- **Name of department: Dermatology, Venereology and Andrology**
- **Faculty of medicine , Assiut University**
- **2022-2023**

#### I. Course data

- ✚ **Course Title:** Internal Medicine
  - ✚ **Course code:** DVA218
  - ✚ **Speciality :** Dermatology, and Venereology
  - ✚ **Number of CP :** : 3 CP for didactic, lecture, tutorial teaching(37.5%), 5 CP(62.5%) for training; total 8(100%) CP.
  - ✚ **Department (s) delivering the course:** Internal Medicine  
Department in conjunction with Department of Dermatology, Venereology and Andrology as annually approved by both departments councils.
- Coordinators :**
- ✚ **Staff members of** Internal Medicine Department in conjunction with **Staff members of** Department of Dermatology, Venereology and Andrology as annually approved by both departments councils.
  - ✚ **Date last reviewed:**4-2022
  - ✚ **Requirements (prerequisites) if any :**  
Requirements from the students to achieve course ILOs are clarified in the joining log book

## 2. Course Aims

2/1 Provide appropriate level of Internal Medicine knowledge necessary to dermatology, venorology and andrology.

## 3. Course intended learning outcomes (ILOs):

### A) Knowledge and understanding

ILOS	Methods of teaching/ learning	Methods of Evaluation
<p><b>A. Describe the etiology, clinical picture, diagnosis and management of the following diseases and clinical conditions:</b></p> <ul style="list-style-type: none"> <li>• -Organ failure (cardiac,hepatic, renal,respiratory)</li> <li>• Systemic failure(shock)</li> <li>• -Disorders of electrolytes and acid base balance</li> <li>• Cardiac arrhythmia</li> <li>• Diabetes mellitus</li> <li>• Neuropsychiatric aspects of aging</li> <li>• Disorders related to malnutrition</li> <li>• Infection in immunocompromized host/HIV</li> <li>• Types of haematological malignancies</li> <li>• Vasculitic disorders (differentiating parameters)</li> <li>• Connective tissue disorders (clinical aspects and investigations)</li> </ul>	Lectures And didactics	Written and oral examination MCQ Log book

<ul style="list-style-type: none"> <li>• Altered hypothalamo-pituitary-gonadal axis</li> <li>• Pituitary hypo- and hyper function</li> <li>• Thyroid hypo- and hyperfunction</li> <li>• Approach to patients with: hepatitis, neuropathy, recurrent thrombosis, bleeding tendency</li> <li>• Pituitary hypo- and hyper function</li> <li>• Thyroid hypo- and hyperfunction</li> <li>• Approach to patients with: hepatitis, neuropathy, recurrent thrombosis, bleeding tendency</li> </ul>		
<p>B-Mention the principles of management :</p> <ul style="list-style-type: none"> <li>• <b>Purpura ,nail abnormalities,.....</b></li> <li>• <b>Allergic manifestations</b></li> <li>• <b>Organ failure (cardiac,hepatic,renal,respiratory)</b></li> <li>• <b>Systemic failure(shock)</b></li> <li>• <b>Disorders of electrolytes and acid base bal Cardiac arrhythmia</b></li> <li>• <b>Diabetes mellitus</b></li> <li>• <b>Neuropsychiatric aspects of aging</b></li> </ul>		
C-State update and evidence based knowledge of conditions mentioned in B.		
D-Memorize the facts and principles of the relevant basic and clinically supportive sciences of medical problem related to <b>dermatology</b>		
E-Explain the facts and principles of the relevant basic and clinically supportive sciences of medical problem related to <b>dermatology</b>		

F-Describe the basic ethical and medicolegal principles of medical problem relevant to the <b>dermatology</b>		
G-Describe the basics of quality assurance to ensure good clinical care in his field		
H-Explain the ethical and scientific principles of medical research		
I-Explain the impact of common medical health problems in the field of Dermatology on the society		

### **B-Intellectual outcomes**

<b>ILOs</b>	<b>Methods of teaching/ learning</b>	<b>Methods of Evaluation</b>
A. Correlates the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common medical diseases related to <b>dermatology</b> .	Clinical rounds Senior staff experience	Procedure/case presentation Log book
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches to common clinical medical situations related to <b>dermatology</b> .		
C. Design and present cases , seminars in common medical <b>dermatology</b> problem		
D-Formulate management plans and alternative decisions in different medical situations in the field of the <b>dermatology</b>		

### C) Practical Skills( patient care)

ILOS	Methods of teaching/ Learning	Methods of Evaluation
A- Take full medical history B- Examine different systems efficiently & elicit signs. C- Order appropriate investigations for common medical conditions. D- Demonstrate effective communication with patients, relatives and colleagues. E- Cope with ethical and legal issues which occur during the management of patients with general medical problems.	training (clinical)	clinical problem solving and oral examination Log book

### D-General Skills

#### Practice-Based Learning and Improvement

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Perform practice-based improvement activities using a systematic methodology in the common problems (plain and conduct audit cycles)	-Case log -Observation and supervision -Written & oral communication	Procedure/case presentation -Log book and Portfolios
B. Appraises evidence from scientific studies related to patients' health problems.	-Journal clubs - Discussions in seminars and clinical rounds	

C. Conduct epidemiological Studies and surveys		
D. Perform data management including data entry and analysis.		
E. Facilitate learning of junior students and other health care professionals..		

### Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
F. Maintain therapeutic and ethically sound relationship with patients	Simulations Clinical round Seminars Lectures Case presentation Hand on workshops	Global rating Procedure/case presentation Log book <i>Portfolios</i> Chick list
G. Elicit information using effective nonverbal, explanatory, questioning, and writing skills		
H. Provide information using effective nonverbal, explanatory, questioning, and writing skills		
I. Work effectively with others as a member or leader of a health care team e.g. in labor ward		
J. Present a case in a common I problem		

## Professionalism

ILOs	Methods of teaching/ Learning	Methods of Evaluation
Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society that supersedes self-interest.	Observation Senior staff experience Case taking	1. Objective structured clinical examination 2. Patient survey
Demonstrate a commitment to ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.		1. 360o global rating
Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		

## Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
K. Work effectively in different health care delivery settings and systems.	Observation Senior staff experience	1. 360o global rating
L. Practice cost-effective health care and resource allocation that does not compromise quality of care		1. Check list evaluation of live or recorded performance
M. Assist patients in dealing with system complexities		1. 360o global rating 2. Patient survey

**Course contents (topic s/modules/rotation**  
**Course Matrix**

**Time Schedule: First Part**

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
Clinical symptoms and signs: e.g. purpura,nail abnormalities,.....	A,B,C	A	A,B	A-D
Allergic manifestations	A-C	A-D	A-D	A-E
Organ failure (cardiac,hepatic,renal,respiratory)	A-I	A-D	A-D	A-H
Systemic failure(shock)	A-I	A-D	A-D	A-H
Disorders of electrolytes and acid base balance	A-I	A-D	A-D	A-H
Cardiac arrhythmia	A-I	A-D	A-D	A-P
Diabetes mellitus	A-I	A-D	A-D	A-P
Neuropsychiatric aspects of aging	A-I	A-D	A-D	A-P
Disorders related to malnutrition	A-I	A-D	A-D	A-P
Infection in immunocompromized host/HIV	A-I	A-D	A-D	A-P
Types of haematological malignancies	A-I	A-D	A-D	A-P
Vasculitic disorders (differentiating parameters)	A-I	A-D	A-D	A-P
Connective tissue disorders (clinical aspects and investigations)	A-I	A-D	A-D	A-P

Altered hypothalamo-pituitary-gonadal axis	A-I	A-D	A-D	A-P
Pituitary hypo- and hyper function	A-I	A-D	A-D	A-P
Thyroid hypo- and hyperfunction	A-I	A-D	A-D	A-P
Approach to patients with: hepatitis, neuropathy, recurrent thrombosis, bleeding tendency	A-I	A-D	A-D	A-P
Pituitary hypo- and hyper function	A-I	A-D	A-D	A-P
Thyroid hypo- and hyperfunction	A-I	A-D	A-D	A-P

#### 5 Course Methods of teaching/learning:

1. Lectures
2. Clinical work

#### 6 Course Methods of teaching/learning: for students of limited abilities

1. Lectures
2. Clinical work

#### 7- Course assessment methods:

##### i. Assessment tools:

- c. Written and oral examination
- d. Log book

##### ii. Time schedule: at the end of 1<sup>st</sup> part.

##### iii. Marks: 150 (90 for written+30 for clinical+ 30 for oral)

#### 8. List of references

8.1- Course Notes

##### 8.2- *Essential Books (Text Books):*

- Davidson's textbook of medicine edition 23th
- Current textbook of medicine 57<sup>th</sup> edition 2018
- Cecil textbook of medicine 22<sup>nd</sup> edition, Reviewed in the United States on February 10, 2017

### 8.3-Recommended book

Harrison textbook of medicine 20<sup>th</sup> edition, 2018.

8.4 -Periodic website: [www.Pubmed.com](http://www.Pubmed.com),

[www.freemedicaljournals.com](http://www.freemedicaljournals.com)










## 9. Signatures

<b>Course Coordinator:</b> .....	<b>Head of the Department:</b> .....
<b>Date:</b>	<b>Date:</b>

#### Course 4: General and Plastic Surgery

- Name of department: Dermatology, Venereology and Andrology
- Faculty of medicine , Assiut University
- **2022-2023**
  - It is divided into 2 units:
- Unit 1 General Surgery
- unit 2 Plastic surgery

#### I. Course data

-  **Course Title:** General and Plastic Surgery
  -  **Course code:** DVA221B#.
  -  **Speciality :** Dermatology, Venereology and Andrology
  -  **Number of CP :** 2 CP for didactics and 3.5CP for training.  
Total CP 5.5 CP.
  -  **A- Unit one (General Surgery 1 CP for didactic, lecture, tutorial teaching, 2 CP for training)**
    - B - Unit two (Plastic Surgery 1 CP for didactic, lecture, tutorial teaching, 1.5 CP for training)**
  -  **Department (s) delivering the course:** General Surgery and Plastic Surgery Departments in conjunction with Department of Dermatology, Venereology and Andrology as annually approved by both departments councils.
- Coordinators :**
-  **Staff members of** General Surgery and Plastic Surgery Departments in conjunction with **Staff members of** Department of Dermatology, Venereology and Andrology as annually approved by both departments councils.
  -  **Date last reviewed:** 4-2022
  -  **Requirements (prerequisites) if any :**
    - Requirements from the students to achieve course ILOs are clarified in the joining log book

## 2. Course Aims

2/1-Provide the candidate basics knowledge and skills of general and plastic surgery situation related to dermatological and andro -venereal diseases.

## 3. Intended learning outcomes (ILOs):

### A) Knowledge and understanding

ILOS	Methods of teaching/ learning	Methods of Evaluation
<p><b>A-Describe the symptoms and sings of most common surgical conditions related to dermatological and andrology diseases.</b></p> <p><b><i>Unit 1 general surgery*conditions related to dermatological diseases of the following:</i></b>            Shock, Hemorrhage, blood transfusion, antibiotics in surgery            Surgical infections, gas gangrene and tetanus            Soft tissue infections.            Laser in surgery            Diseases of lymph nodes            Inflammatory bowel disease            Varicose veins and deep venous thrombosis            Chronic leg ulcer            Lymphodema (1ry and 2ry)            Basal cell carcinoma and other skin tumors            Cutaneous manifestations of breast cancer            Paget disease of the nipples.</p> <p><b><i>Unit 2 plastic surgery***conditions related to Andrology</i></b>            Scrotal swellings            (hydrocele, varicocele, epididymis)(            Hernia and testicular tumors            Congenital anomalies of the external genetalia            Perianal suppuration and fistula</p>	<p>Lectures And didactics</p>	<p>Written and oral examination</p> <p>Log book</p>

### B-Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Correlates the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common surgical diseases related to <b>Dermatology&amp; Andrology</b> .	Clinical rounds Senior staff experience	Procedure/case presentation Log book
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches to common clinical surgical situations related to <b>dermatology&amp; Andrology</b>		
C. Design and present cases , seminars in common surgical <b>Dermatology&amp; Andrology</b> problem		
D-Formulate management plans and alternative decisions in different surgical situations in the field of the <b>Dermatology&amp; Andrology</b>		

### C) Practical Skills

Competency and Skills	Methods of teaching/ Learning	Methods of Evaluation
A- take proper history case taking . B- Diagnose different surgical conditions mentioned above and related emergencies. C- master the skills for selection of patients suitable to elective surgical interventions.	Lectures And training (clinical and log training)	Written and oral examination  Log book

D- Manage preoperative steps related to andrological and dermatological procedures. E- Order appropriate investigations for surgically related andrological conditions. F- Manage efficiently with other colleagues in management of surgical elderly patient.		
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### **D- General skills**

#### **Practice-Based Learning and Improvement**

<b>ILOs</b>	<b>Methods of teaching/ learning</b>	<b>Methods of Evaluation</b>
A-Perform practice-based improvement activities using a systematic methodology in the common problems (plain and conduct audit cycles)	-Case log -Observation and supervision -Written & oral communication	Procedure/case presentation -Log book and Portfolios
B-Appraises evidence from scientific studies related to patients' health problems.	-Journal clubs - Discussions in seminars and clinical rounds	
C-Conduct epidemiological Studies and surveys		
D-Perform data management including data entry and analysis.		
E-Facilitate learning of junior students and other health care professionals..		

## Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
F-Maintain therapeutic and ethically sound relationship with patients	Simulations Clinical round Seminars Lectures Case presentation Hand on workshops	Global rating Procedure/case presentation Log book Portfolios Chick list
G-Elicit information using effective nonverbal, explanatory, questioning, and writing skills		
H-Provide information using effective nonverbal, explanatory, questioning, and writing skills		
I-Work effectively with others as a member or leader of a health care team e.g. in labor ward		
J-Present a case in a common I problem		

## Professionalism

ILOs	Methods of teaching/ Learning	Methods of Evaluation
K-Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society that supersedes self-interest.	Observation Senior staff experience Case taking	1. Objective structured clinical examination 2. Patient survey
L-Demonstrate a commitment to ethical principles pertaining to provision or		1. 360o global rating

withholding of clinical care, confidentiality of patient information, informed consent, and business practices.		
M- Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		

### Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
N-Work effectively in different health care delivery settings and systems.	Observation Senior staff experience	1. 360o global rating
O-Practice cost-effective health care and resource allocation that does not compromise quality of care		1. Check list evaluation of live or recorded performance
P-Assist patients in dealing with system complexities		1. 360o global rating 2. Patient survey

**Course contents (topic s/modules/rotation**  
**Course Matrix**

**Time Schedule: First Part**

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
<b>Module1: general surgery</b>				
Shock, Hemorrhage, blood transfusion, antibiotics in surgery	A	A,B,D	A,B,F	A-E
Surgical infections, gas gangrene and tetanus	A	A,B,D	A,B,F	A-E
Soft tissue infections.	A	A,B,D	A,B,F	A-E
Laser in surgery	A	D	A-F	A-H
Diseases of lymph nodes	A	A-D	A,B,F	A-H
Inflammatory bowel disease	A	A,B,D	A,B,F	A-H
Varicose veins and deep venous thrombosis	A	A-D	A,B,F	A-P
Chronic leg ulcer	A	A-D	A,B,F	A-P
Lymphodema (1ry and 2ry)	A	A-D	A,B,F	A-P
Basal cell carcinoma and other skin tumors	A	A-D	A,B,F	A-P
Cutaneous manifestations of breast cancer	A	A-D	A,B,F	A-P
Paget disease of the nipples	A	A-D	A,B,F	A-P
<b>Module 2: Plastic surgery</b>				
Scrotal swellings (hydrocele, varicocele, epididymis)	A	A-D	A-F	A-P
Hernia and testicular tumors	A	A-D	A,B,D,E,F	A-P
Congenital anomalies of the external genetalia	A	A-D	A-F	A-P
Perianal suppuration and fistula	A	A,B,D	A,B,D-F	A-P

### **5 Course Methods of teaching/learning:**

1. Lectures
2. seminars,
3. discussion with senior staff
4. observation
5. Clinical work

### **6 Course Methods of teaching/learning: for students of limited abilities**

1. Lectures
2. Seminars,
3. Discussion with senior staff
4. Observation
5. Clinical work

### **7- Course assessment methods:**

#### **i. Assessment tools:**

1. Written , oral and clinical examination
2. Log book

#### **ii. Time schedule: 1<sup>st</sup> part**

#### **iii. Marks: 100 MARKs (40 Didactic, 30 oral, 30 clinical)**

## 8. List of references

8.1- Course Notes

8.2- ***Essential Books (Text Books):***









- Bailey and Love's Short Practice of Surgery edition 26<sup>th</sup>, 2013
- Recommended book
- Current Surgical Diagnosis and Treatment, 15th Edition, 2022.
- WEBSITE: [www.Pubmed.com](http://www.Pubmed.com)

## 9. Signatures

Course Coordinator	
Unit 1 Coordinator: .....	Head of the Department: .....
Date:	Date:
Unit 2 Coordinator: .....	Head of the Department: .....
Date:	Date:

## Course 5: Psychiatry

### I. Course data

-  **Course Title:** Psychiatry
-  **Course code:** DVA220
-  **Speciality :** Dermatology, Venereology and Andrology  
**Number of CP 1 CP (40%)for didactic, lecture, tutorial teaching, 1.5 CP(60%) for training. Total 2.5CP(100%).**
-  **Department (s) delivering the course:** Neuropsychiatry  
Department in conjunction with Department of Dermatology, Venereology and Andrology.
-  **Coordinator (s):** Staff members of Neuropsychiatry  
Department in conjunction with Dermatology, Venereology and Andrology Department as annually approved by both departments councils
-  **Date last reviewed:** 4-2022
-  **Requirements (prerequisites) if any :**
  -  **None**

## 2. Course Aims

2/1 Provide the knowledge and attitudes required for psychiatric problems related to Dermatologic and andrological complaints.

2/2 Acquire the basics of psychological sexology facts necessary andrology .

## 3. Intended learning outcomes (ILOs):

### A) Knowledge and understanding

ILOS	Methods of teaching/ learning	Methods of Evaluation
<p>A. Describe the principles of psychiatry ology and sexology related to Andrology problems including the following:</p> <p>Psychology of sex</p> <p>Disorders of sexual cycle</p> <p>Paraphilias</p> <p>Gender identity disorders</p> <p>B- Illustrate the art of psychiatric concepts and condition related to dermatology and andrology including the following:</p> <p>Introduction and classification in psychiatry</p> <p>Introduction to management strategies in psychiatry</p> <p>Interface between psychiatry and dermatology, Andrology</p> <p>Common psychiatric conditions and their management.</p>	<p>Lectures</p> <p>Didactics</p> <p>discussion</p>	<p>Written and oral examination</p> <p>Log book</p>

## B) Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Correlates the facts of <b>basic</b> Sexology and psychiatry with clinical reasoning, diagnosis and management of related condition to Dermatology and Andrology <b>diseases</b> .	Didactic (lectures, seminars, tutorial)	-Written and oral examination -Log book
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches to the conditions mentioned above.		

## C) Practical Skills( Patient care)

ILOS	Methods of teaching/ learning	Methods of Evaluation
<p>A. Take full medical, Psychological history and assessment of patients.</p> <p>B- Diagnose psychiatric related dermatologic and andrological malfunctions</p> <p>C- Investigate properly in context with psychological condition of patients in our practice.</p> <p>D- Carry out management strategy for different psychological related conditions in association with psychologists.</p> <p>E. Communicate effectively with patients, relatives and psychiatrists.</p> <p>F. Cope with ethical and legal issues which occur during the management of patients with psychiatric problems</p>	<p>training (clinical)</p> <p>Discussion</p> <p>Observation</p>	<p>Written and oral examination</p> <p>Log book</p>

**D General Skills**  
**Practice-Based Learning and Improvement**

ILOs	Methods of teaching/ learning	Methods of Evaluation
A.Appraises evidence from scientific studies(journal club)	Lectures Discussion, observation	Logbook
B.Perform data management including data entry and analysis.		
C.Facilitate learning of junior students and other health care professionals.		

**Interpersonal and Communication Skills**

ILOs	Methods of teaching/ learning	Methods of Evaluation
D.Elicit information using effective nonverbal, explanatory, questioning, and writing skills.	-Observation -Senior staff experience	Logbook
E.Provide information using effective nonverbal, explanatory, questioning, and writing skills.		

**Professionalism**

ILOs	Methods of teaching/ learning	Methods of Evaluation
F.Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society	-Observation -Senior staff experience	Logbook
G.Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		

## Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
H.Work effectively in relevant health care delivery settings and systems.	-Observation -Senior staff experience	Logbook

### 4. Course contents (topic s/modules/rotation Course Matrix

#### Time Schedule: First Part

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
Psychology of sex	A	A	-	B-E
Disorders of sexual cycle	A	A	A-F	A-H
Paraphilias	A	A	A-F	A-H
Gender identity disorders	A	A,B	A-F	B-E
Introduction and classification in psychiatry	B	A	-	B-E
Introduction to management strategies in psychiatry	B	A	-	B-E
Interface between psychiatry and dermatology, Andrology	B	A	-	B-E
Common psychiatric conditions and their management	B	A,B	A-F	A-H

### 5 Course Methods of teaching/learning:

- Lectures.
- Clinical
- Tutorial.
- Discussion
- Observation

## **6 Course Methods of teaching/learning: for students of limited abilities**

- Lectures
- clinical
- tutorial.
- discussion
- observation

## **7- Course assessment methods:**

- Assessment tools:
  - Written and oral examination including practical skills assessment
  - Log book
- Time schedule: 1<sup>st</sup> part (year 1)
- Marks: 50(30 for written + 20 for oral).

## **8. List of references**

Course Notes: lecture notes.

## **9. Signatures**

<b>Course Coordinator:</b> .....	<b>Head of the Department:</b> .....
<b>Date:</b>	<b>Date:</b>

**Second Part**  
**Speciality Courses**

Course 'Titles' list	% from total credit points	Level (Year)	Core Credit points		
			Didactic	training	Total
<b>Course 6:" Dermatology "</b>	<b>62.7%</b>	<b>1,2&amp;3</b>	<b>15</b>	<b>69</b>	<b>84</b>
<b>Course 7: " Venerology and Andrology"</b>	<b>37.3%</b>	<b>1,2&amp;3</b>	<b>9</b>	<b>41</b>	<b>50</b>
<b>Total No. of course : 2 courses</b>	<b>100%</b>	<b>1,2&amp;3</b>	<b>24</b>	<b>110</b>	<b>134</b>

## Course 6: Dermatology

### 1. Course data

- ✚ Course Title: Dermatology .
- ✚ Course code: DVA221C
- ✚ **Speciality: Dermatology, Venereology and Andrology**
- ✚ Department (s) delivering the module: Department of Dermatology, Venereology & Andrology- Faculty of Medicine- Asyut University- EGYPT
- ✚ Coordinator (s):

Course	Principle coordinator	Assistant coordinator
<b>Course 6: Dermatology</b>	Prof Dr. Nagwa Essa Abdel-azeem	Prof. Dr. Eman Riad Mohamed, Prof. Dr. Dalia Abdel-Aziz Ahmed, Prof. Dr. Sahar Abdel-Moez Ahmed, Dr. Ayman Mohamed Mahran, Dr. Marwa Mohammad Abdel-Hakeem

- ✚ **Date last reviewed:** 4/2022
- ✚ **Admission Requirements (prerequisites) if any :** According to approved regulatory rules
  - I. General Requirements:**
    - none
  - II. Specific Requirements:**
- ✚ • Should have successfully completed basic medical training leading to MBBS, MD, or MB Ch from a recognized institution.
- ✚ • Must have completed a one year internship program that included at least two months of Internal Medicine.
- ✚ • Must be fully registered by the competent Authority, to practice medicine in the Arab Republic of Egypt.

## 2. Course Aims

2/1) To Enable the candidates to keep with the international standards of patient care in dermatology by achieving high levels of:



a- Clinical skills.



b- Patient care skills.



c- Simple surgical maneuvers such as; skin and testicular biopsy.

2/2) To introduce the candidates to the basics of scientific research.

2/3) Enable them to start professional careers as specialists in Egypt.

2/4) Make them recognized as specialists abroad.

2/5) Enable them to pursue higher studies and degrees.

2/6) Enable them to understand and to get the best of published scientific research and to do their own research.

### 3. intended learning outcomes (ILOs):

#### A- Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
<p>A. Describe the etiology, clinical picture, diagnosis and management of the following diseases and clinical conditions:</p> <ul style="list-style-type: none"> <li>• Neonatal Dermatoses and genodermatoses</li> <li>• Pruritis</li> <li>• Eczematous skin conditions including atopic and contact dermatitis</li> <li>• Lichenoid skin eruptions</li> <li>• Cutaneous erythemas</li> <li>• Occupational dermatoses</li> <li>• Inflammatory disorders of the dermis as sweets syndrome, pyoderma gangrenosum, erythema nodosum and others</li> <li>• Cutaneous physical injury as photodermatoses, cold, mechanical and thermal injury.</li> <li>• Cutaneous infections including, viral, bacterial, parasitic, and fungal skin diseases with special concern to leprosy and other chronic infections in our community.</li> <li>• Drug reactions</li> <li>• Skin tumours</li> <li>• Cutaneous pigmentary disorders</li> <li>• Cutaneous naevi</li> <li>• Urticarial and flushing disorders</li> <li>• Disorders of skin appendages (sweat and apocrine glands and hair)</li> <li>• Disorders of keratinization including psoriasis, ichthyotic disorders, keratodermas and others</li> <li>• Disorders of skin aging and geriatric dermatoses</li> <li>• Autoimmune connective tissue diseases</li> <li>• Diseases of connective tissue and subcutaneous fat</li> </ul>	<p>Didactic;</p> <ul style="list-style-type: none"> <li>-Lectures</li> <li>-Clinical rounds</li> <li>-Seminars</li> <li>-Clinical rotations (service teaching)</li> </ul>	<ul style="list-style-type: none"> <li>-OSCE</li> <li>-log book &amp; portfolio</li> <li>- MCQ examination</li> <li>-Oral and written exam</li> </ul>

<ul style="list-style-type: none"> <li>• Bullous skin diseases: Mechanobullous and Immunobullous skin diseases</li> <li>• Disorders of cutaneous vessels (arteries, veins and lymphatics) including vasculitis and occlusive disorders</li> <li>• Histocytosis and mastocytosis</li> <li>• Granulomatous skin diseases as sarcoidosis and others</li> <li>• Metabolic and nutritional dermatoses</li> <li>• Skin affection in systemic diseases and malignancies</li> <li>• Nail disorders</li> <li>• Disorders that associate affection of skin and other body systems and organs as eye, ear, mucosa, teeth, musculoskeletal, respiratory and nervous systems</li> <li>• Cutaneous lymphomas and lymphocytic infiltrate</li> <li>• Disorders of lips and oral cavity</li> <li>• Psychocutaneous disorders</li> <li>• Necrobiotic disorders.</li> </ul>		
<p><b>B. Illustrate the principles of diagnostic, therapeutic and preventive tools for the following disease:</b></p> <ul style="list-style-type: none"> <li>• Neonatal dermatoses and genodermatoses</li> <li>• Pruritis</li> <li>• Eczematous skin conditions including atopic and contact dermatitis</li> <li>• Lichenoid skin eruptions</li> <li>• Cutaneous erythemas</li> <li>• Occupational dermatoses</li> <li>• Inflammatory disorders of the dermis as sweets syndrome, pyoderma gangrenosum, erythema nodosum and others</li> <li>• Cutaneous physical injury as photodermatoses, cold, mechanical and thermal injury.</li> <li>• Cutaneous infections including, viral, bacterial, parasitic, and fungal skin diseases with special</li> </ul>	<p>Didactic;</p> <ul style="list-style-type: none"> <li>-Lectures</li> <li>-Clinical rounds</li> <li>-Seminars</li> <li>-Clinical rotations (service teaching)</li> </ul>	<ul style="list-style-type: none"> <li>-OSCE</li> <li>-log book &amp; portfolio</li> <li>- MCQ examination</li> <li>-Oral and written exam</li> </ul>

<p>concern to leprosy and other chronic infections in our community.</p> <ul style="list-style-type: none"> <li>• Drug reactions</li> <li>• Skin tumours</li> <li>• Cutaneous pigmentary disorders</li> <li>• Cutaneous naevi</li> <li>• Urticarial and flushing disorders</li> <li>• Disorders of skin appendages (sweat and apocrine glands and hair)</li> <li>• Disorders of keratinization including psoriasis, ichthyotic disorders, keratodermas and others</li> <li>• Disorders of skin aging and geriatric dermatoses</li> <li>• Autoimmune connective tissue diseases</li> <li>• Diseases of connective tissue and subcutaneous fat</li> <li>• Bullous skin diseases: Mechanobullous and Immunobullous skin diseases</li> <li>• Disorders of cutaneous vessels (arteries, veins and lymphatics) including vasculitis and occlusive disorders</li> <li>• Histocytosis and mastocytosis</li> <li>• Granulomatous skin diseases as sarcoidosis and others</li> <li>• Metabolic and nutritional dermatoses</li> <li>• Skin affection in systemic diseases and malignancies</li> <li>• Nail disorders</li> <li>• Skin infections (including COVID19).</li> <li>• Disorders that associate affection of skin and other body systems and organs as eye, ear, mucosa, teeth, musculoskeletal, respiratory and nervous systems</li> <li>• Cutaneous lymphomas and lymphocytic infiltrate</li> <li>• Disorders of lips and oral cavity</li> <li>• Psychocutaneous disorders</li> <li>• Necrobiotic disorders.</li> <li>• Skin cosmetic problems</li> </ul>		
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<p>C. State update and evidence based Knowledge of:</p> <ul style="list-style-type: none"> <li>• Genodermatoses</li> <li>• Immunodeficiency disorders</li> <li>• Bullous skin diseases</li> <li>• Bacterial, viral, fungal, parasitic and mycobacterial infections</li> <li>• Rare syndromes with Keratoderma</li> <li>• Some ichthyotic disorders</li> <li>• Rare cutaneous tumours</li> <li>• Granulomatous skin diseases as sarcoidosis and others</li> <li>• Metabolic and nutritional dermatoses</li> <li>• Vasculitic diseases</li> <li>• Panniculitis</li> <li>• Histocytosis</li> <li>• Necrobiotic disorders</li> <li>• Nail disorders</li> <li>• Infections and antibiotics .</li> </ul>	<p>Didactic;</p> <ul style="list-style-type: none"> <li>-Lectures</li> <li>-Clinical rounds</li> <li>-Seminars</li> <li>-Clinical rotations (service teaching)</li> </ul>	<ul style="list-style-type: none"> <li>-OSCE at the end of each year</li> <li>-log book &amp; portfolio</li> <li>- MCQ examination</li> <li>-Oral and written exam</li> </ul>
D.Memorize the facts and principles of the relevant basic and clinically supportive sciences related to dermatology		
E.Explain the facts and principles of the relevant basic and clinically supportive sciences related to dermatology		
F.Describe the basic ethical and medicolegal principles relevant to the dermatology		
G.Describe the basics of quality assurance to ensure good clinical care in his field		
H.Explain the ethical and scientific principles of medical research		
I.Explain the impact of common health problems in the field of Dermatology on the society.		

### B-Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Correlates the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases related to dermatology.	Clinical rounds Senior staff experience	Procedure/case presentation Log book
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches to common clinical situations related to dermatology.		
C. Design and present cases , seminars in common dermatology problem		
D-Formulate management plans and alternative decisions in different situations in the field of the dermatology		

### C- Practical skills (Patient Care)

ILOs	Methods of teaching/ learning	Methods of Evaluation
Take history, examine and clinically diagnose different conditions <b>related to Dermatology</b>	-Didactic; -Lectures -Clinical rounds -Seminars -Clinical rotations (service teaching)	- OSCE at the end of each year -log book & portfolio - MCQ examination
Order the following non invasive/invasive diagnostic procedures ✚ - fungal culture ✚ -Bacteriological swab	Clinical round with senior staff Observation	-Procedure presentation - Log book - Chick list

 -Trichogram	Post graduate teaching Hand on workshops	
<b>A.</b> Interpret the following non invasive&invasive diagnostic procedures - skin biopsy - Skin scraping and KOH test	Clinical round with senior staff	Procedure presentation - Log book - Chick list
<b>B.</b> Perform the following non invasive&nvasive diagnostic procedures  - Cutaneous laboratory tests as scrapings and obtaining hair, nail and tissue specimens for direct mycological examination  - Skin biopsy taking  - Wood's light examination  -Bacteriological swab  -Trichogram	Clinical round with senior staff -Perform under supervision of senior staff	Procedure presentation - Log book - Chick list
<b>C.</b> Perform the following non invasive &invasive therapeutic procedures: - Comedo extraction - Simple suturing technique - Electric cauterization - Cryotherapy - Intralesional injection - Ultraviolet therapy( phototherapy and photochemotherapy): for vitiligo, psoriasis, alopecia areata, atopic dermatitis, mycosis fugoides and pruritis - Cutaneous electrosurgery - Cutaneous cryosurgery	Clinical round with senior staff	
<b>D.</b> Carry out patient management plans for the following problems <ul style="list-style-type: none"> <li>• Leprosy</li> <li>• Autoimmune connective tissue diseases</li> </ul>		

<ul style="list-style-type: none"> <li>• Bullous diseases: Mechanobullous and Immunobullous skin diseases</li> <li>• Naevi: vascular and others</li> <li>• Urticaria, eczema and atopic dermatitis</li> <li>• Mycosis fungoides and other cutaneous lymphomas</li> <li>• Skin tumours</li> <li>• Vitiligo and pigmentary disorders</li> <li>• Tuberculosis</li> <li>• Psoriasis</li> <li>• Ichthyosis and disorders of keratinization</li> <li>• Alopecia areata</li> <li>• Acne vulgaris and post acne scar</li> <li>• Skin aging</li> </ul>		
<p>E. Use information technology to support patient care decisions and patient education for <b>the dermatology</b> related conditions.</p>		
<p>F. Provide health care services aimed at preventing the following conditions</p> <ul style="list-style-type: none"> <li>- Skin infection</li> <li>- Genodermatoses</li> <li>- Cutaneous allergy</li> <li>- Cutaneous physical injury</li> <li>- Skin affectin by nutritional or systemic disorders</li> <li>- Conditions predisposing to skin aging and malignancy</li> </ul>		
<p>G. Work with health care professionals, including those from other disciplines, to provide patient-focused care</p>		
<p>H. Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets.( Write a</p>		

consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records)		
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## D-General Skills

### Practice-Based Learning and Improvement

ILOs	Methods of teaching/ learning	Methods of Evaluation
A.Perform practice-based improvement activities using a systematic methodology in the common problems (plain and conduct audit cycles)	-Case log -Observation and supervision -Written & oral communication	Procedure/case presentation -Log book and Portfolios
B.Appraises evidence from scientific studies related to patients’ health problems.	-Journal clubs - Discussions in seminars and clinical rounds	
C.Conduct epidemiological Studies and surveys		
D.Perform data management including data entry and analysis.		
E.Facilitate learning of junior students and other health care professionals..		

## Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
F.Maintain therapeutic and ethically sound relationship with patients	Simulations Clinical round Seminars Lectures Case presentation Hand on workshops	Global rating Procedure/case presentation Log book Portfolios Chick list
G.Elicit information using effective nonverbal, explanatory, questioning, and writing skills		
H.Provide information using effective nonverbal, explanatory, questioning, and writing skills		
I.Work effectively with others as a member or leader of a health care team e.g. in labor ward		
J.Present a case in a common dermatological problem		
K. Write a report in <ul style="list-style-type: none"> <li>a. Fungal diseases</li> <li>b. Cutaneous problems related to various skin diseases</li> </ul>		
L. Counsel and educate patients and their family about: <ul style="list-style-type: none"> <li>• Various dermatological disorders</li> </ul>		

<ul style="list-style-type: none"> <li>• Dermatopathological examination of different skin diseases</li> <li>• Fungal skin diseases</li> <li>• Cutaneous cosmetic problems related various skin diseases</li> <li>• Dermatologic surgical procedures</li> </ul> <p>Skin aging</p>		
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### Professionalism

ILOs	Methods of teaching/ Learning	Methods of Evaluation
M. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society that supersedes self-interest.	Observation Senior staff experience Case taking	1. Objective structured clinical examination 2. Patient survey
N. Demonstrate a commitment to ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.		1. 360o global rating
O. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		

## Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
P. Work effectively in different health care delivery settings and systems.	Observation Senior staff experience	1. 360o global rating
Q. Practice cost-effective health care and resource allocation that does not compromise quality of care		1. Check list evaluation of live or recorded performance
R.. Assist patients in dealing with system complexities		1. 360o global rating 2. Patient survey

**4. Course contents (topic s/modules/rotation)**  
**Course Matrix**

**Time Schedule: Second part**

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
-Normal skin anatomy and histology	C	A	C	-
-Physiological functions of the skin in relation to its structure	A,B,D,E	A,B,D	A	-
-Diagnosis of skin diseases (excluding histopathology)	A-I	A-D	A-F	A,D,O
- Epidemiology of skin diseases	I	-	H,K	C
- skin diseases throughout life	A-I	A-D	A-F	A,C, D,O
-Racial influence on skin diseases	A-I	A-D	A-F	A,C,D,O
-Histopathology of the skin: General principles	C-E	A,B	C	J,K
-Molecular Biology	A-C	A,B	F,H	A,B
-Skin inflammation: Cells, molecules, mediators and their inter-relation	A-C	A,B	C	A
-Dermatologic immunology, allergy and photoimmunolgy: Pathogenesis and sequalae	A-C	A,B	F	A
-Wound healing and skin regeneration	A-C	A,B	F	A

-Genodermatoses: An introduction to genetics, prenatal diagnosis and selected syndromes	<b>A-I</b>	<b>A-D</b>	<b>A,D, F-J</b>	<b>A-R</b>
-Neonatal and pediatric dermatology	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
-Common naevi and developmental defects: Epidermal, dermal and vascular	<b>A-I</b>	<b>A-D</b>	<b>A,D, F-J</b>	<b>A-R</b>
-Pruritus: Pathway, mediators, modulators, situations and management	<b>A-I</b>	<b>A-D</b>	<b>A, D-J</b>	<b>A-R</b>
-Eczema, lichenification and prurigo	<b>A-I</b>	<b>A-D</b>	<b>A, D-J</b>	<b>A-R</b>
-Atopic dermatitis	<b>A-I</b>	<b>A-D</b>	<b>A, D-J</b>	<b>A-R</b>
-Contact dermatitis: Allergic, and irritant	<b>A-I</b>	<b>A-D</b>	<b>A, D-J</b>	<b>A-R</b>
-Occupational dermatoses	<b>A-I</b>	<b>A-D</b>	<b>A, D-J</b>	<b>A-R</b>
-Mechanical and thermal injury	<b>A-I</b>	<b>A-D</b>	<b>A, D-J</b>	<b>A-R</b>
-Reactions to cold	<b>A-I</b>	<b>A-D</b>	<b>A, D-J</b>	<b>A-R</b>
-Cutaneous photobiology: Basic principles, normal reactions, abnormal reactions, photodermatoses and phototherapy	<b>A-I</b>	<b>A-D</b>	<b>A, D-J</b>	<b>A-R</b>
-Viral infections: General pathology, herpes viruses, human papilloma virus, retrovirus, hepatitis viruses, HIV, Gianotti Crosti	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>

syndrome, pityriasis rosea and COVID19.				
-Bacterial infections: Normal flora, gram positive, gram negative and anaerobic bacteria	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
-Mycobacterial infections: Tuberculosis and atypical mycobacteria	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
-Leprosy	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
- Mycology : Superficial , subcutaneous and systemic mycoses with their management	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
- Parasitic worms and protozoa : schistosomiasis , amebiasis and leishmaniasis	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
- Diseases caused by Arthropods and other Noxious Animals: such as Scabies and pediculosis	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
- Disorders of keratinization	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
-Psoriasis	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
-Bullous eruptions: · Immunobullous disorders · Mechanobullous disorders	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
-Lichen planus and lichenoid eruptions	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
-Sebaceous glands: Structure, function and diseases (including acne	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>

vulgaris, naevi and tumours				
-Rosacea, perioral dermatitis and similar dermatoses, Flushing and flushing syndromes	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
-Sweat glands: common disorders of both eccrine and apocrine glands	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
-Disorders of connective tissue: · Elastin · Collagen · Premature aging	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
-Erythemas: · Diffuse, localized, figurate, multiform and toxic · Erythroderma	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
-Urticaria and Mastocytosis	<b>A-I</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
- Subcutaneous fat disorders	<b>A-H</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
-Diseases of the Veins and Arteries, Leg ulcers	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
-Disorders of lymphatic vessels	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
-Purpura, microvascular occlusion and telangiectasia	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
-Cutaneous vasculitis, neutrophilic disorders and related disorders	<b>A-H</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
-Necrobiotic disorders	<b>A-H</b>	<b>A-D</b>	<b>A-G</b>	<b>A-R</b>
-Histiocytosis	<b>A-H</b>	<b>A-D</b>	<b>A-G</b>	<b>A-R</b>

-Cutaneous lymphomas and lymphocytic infiltrations		<b>A-D</b>	<b>A-G</b>	<b>A-R</b>
-Autoimmune connective tissue diseases: · Lupus erythematosus · Scleroderma, mixed connective tissue disease and dermatomyositis · Lichen sclerosus, scleroedema, Sjogren's syndrome and rheumatoid disease	<b>A-I</b>	<b>A-D</b>	<b>A-G</b>	<b>A-R</b>
-Metabolic and nutritional diseases: · Porphyrias · Xanthomas and hyperlipidaemias · Amyloidosis · Mucinoses and disorders of amino acid metabolism · Angiokeratodermas, lipoid proteinosis · Nutrition and the skin · Skin disorders in D.M	<b>A-I</b>	<b>A-D</b>	<b>A-G</b>	<b>A-R</b>
-Sarcoidosis	<b>A,B</b>	<b>A-D</b>	<b>A-G</b>	<b>A-I</b>
-Systemic diseases and the skin	<b>A-I</b>	<b>A-D</b>	<b>A-G</b>	<b>A-R</b>
-Psychocutaneous disorders	<b>A-I</b>	<b>A-D</b>	<b>A-G</b>	<b>A-R</b>
-The nails: Anatomy and nail disorders	<b>A-I</b>	<b>A-D</b>	<b>A-G</b>	<b>A-R</b>
-The hair: Anatomy and hair disorders	<b>A-I</b>	<b>A-D</b>	<b>A-G</b>	<b>A-R</b>

-Pregnancy related skin conditions	<b>A-I</b>	<b>A-D</b>	<b>A-G</b>	<b>A-R</b>
- Epidermal skin tumours: Common benign, premalignant and malignant	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
- Lentigos, Melanocytic naevi and malignant melanoma	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
- The melanocyte: · Biology, function and hypermelanosis · Disorders of skin colour · Vitiligo	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
- General aspects of treatment: · Systemic, local and others · Retinoids · Antifungal and antiviral drugs · Antibiotics and dapsons · Antihistaminics and antiallergic drugs · Immunosuppressive drugs · Immunomodulators: topical and systemic · sunscreens · Phototherapy and photodynamic therapy	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
-Drug reactions, erythema multiform, Steven- Johnson syndrome and Toxic epidermal Necrolysis	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>

- Cutaneous tumors	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
- The oral cavity (mucosa and teeth disorders related to skin)	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
- Disorders relating skin and other body system as eye, ear, respiratory , genital and GIT	<b>A-I</b>	<b>A-D</b>	<b>A-J</b>	<b>A-R</b>
-General aspects of treatment	<b>A-I</b>	<b>A-D</b>	<b>E-I</b>	<b>A-R</b>
-Dermatological surgery	<b>A-F</b>	<b>A-D</b>	<b>E-I</b>	<b>A-R</b>
- Lasers and Flashlamps	<b>A-F</b>	<b>A-D</b>	<b>E-I</b>	<b>A-R</b>
-Radiotherapy and reaction to ionizing radiation	<b>A-F</b>	<b>A-D</b>	<b>F,J</b>	<b>A-R</b>
-Aging skin	<b>A-I</b>	<b>A-D</b>	<b>A, D-J</b>	<b>A-R</b>

## 5. Methods of teaching/learning:

1. Didactic (lectures, seminars, tutorial)
2. Outpatient
3. Inpatient
4. Case presentation
5. Direct observation
6. journal club
7. Critically appraised topic.
8. Educational prescription
9. Clinical rounds

10. Clinical rotation in dermabrasion, laser and biopsy room
11. Senior staff experience
12. Case log
13. Observation and supervision
14. Written & oral communications
15. Simulation
16. Hand on work shop
17. Service teaching
18. Perform under supervision of senior staff
19. Postgraduate teaching

#### **6. Course Methods of teaching/learning: for students with poor achievements**

1. Extra Didactic (lectures, seminars, tutorial) according to their needs
2. Extra training according to their needs

#### **7. Course assessment methods:**

##### **i. Assessment tools:**

- Oral examination
- Clinical examination
- Written examination
- Objective structure clinical examination (OSCE)
- Procedure/case Log book and Portfolios
- Simulation
- Record review (report)
- Patient survey
- Global rating
- Check list evaluation of live or recorded performance

##### **ii. Time schedule: 3-5 years**

##### **iii. Marks: ...750 ,(300 for written,+ 225 for oral and 225 for clinical).**

## 8. List of references

### i. Lectures notes

Hard or soft copies from lectures by staff members of the Dep. of Dermatology, Venereology & Andrology

### ii. Essential books

Principles of Dermatology, Venereology & Andrology Book by Staff Members of the Department of Dermatology, Venereology & Andrology -Assiut University

Andrews textbook of Dermatology 13<sup>th</sup> edition, 2019

### iii. Recommended books

Rook text book of Dermatology, 9<sup>th</sup> Edition, 2016

Cosmetic Dermatology by Lesli Bauman 2<sup>nd</sup> edition, 2009 (waiting for the 3<sup>rd</sup> edition by the end of the year)

### iv. Periodicals, Web sites, ... etc

- Journal of American Academy of Dermatology.
- British Journal of dermatology.
- Archive of Dermatology

### v. others

Periodic Journal clubs and scientific meetings arranged in the Dep.of Dermatology, Venereology & Andrology

## 9. Signatures

<b>Course Coordinator:</b>	<b>Head of the Department:</b> -
<b>Date:</b>	<b>Date:</b>

## Course 7: Venereology and Andrology

### 1. Course data

- ✚ Course Title: Venorology and Andrology.
- ✚ Course code: DVA221D
- ✚ Speciality: Dermatology, Venereology and Andrology.
- ✚ Credit points :9 CP for didactics and 41 CP for training ; total 50 CP
- ✚ Department (s) delivering the module: Department of Dermatology, Venereology & Andrology- Faculty of Medicine- Asyut University- EGYPT
- ✚ Coordinator (s):

Course	Principle coordinator	Assistant coordinator
<b>COURSE 7:- Andrology &amp;Venereology</b>	Prof Dr. Emad Abd Elraheem Taha	prof. Dr. Hisham Diab Gaber

- ✚ Date last reviewed: 4/2022
- ✚ Admission Requirements (prerequisites) if any : According to approved regulatory rules
  - III. General Requirements:
    - none
  - IV. Specific Requirements:
    - ✚ • Should have successfully completed basic medical training leading to MBBS, MD, or MB Ch from a recognized institution.
    - ✚ • Must have completed a one year internship program that included at least two months of Internal Medicine.

- ✚ • Must be fully registered by the competent Authority, to practice medicine in the Arab Republic of Egypt.

## 2. Course Aims

2/1) To Enable the candidates to keep with the international standards of patient care in venereology and andrology by achieving high levels of:

- ✚ a- Clinical skills.
- ✚ b- Patient care skills.
- ✚ c- Simple surgical maneuvers such as; skin and testicular biopsy.

2/2) To introduce the candidates to the basics of scientific research.

2/3) Enable them to start professional careers as specialists in Egypt.

2/4) Make them recognized as specialists abroad.

2/5) Enable them to pursue higher studies and degrees.

2/6) Enable them to understand and to get the best of published scientific research and to do their own research.

### 3. Intended learning outcomes (ILOs):

#### Course7: Andrology, Venereology

#### A- Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
<p>A. Describe the etiology, clinical picture, diagnosis and management of the following diseases and clinical conditions:</p> <ul style="list-style-type: none"> <li>❖ Congenital anomalies of male genital system.</li> <li>❖ Puberty disorders</li> <li>❖ Introduction to male infertility</li> <li>❖ Aetiology of male infertility</li> <li>❖ Diagnosis of male infertility</li> <li>❖ Medical treatment of male infertility</li> <li>❖ ART</li> <li>❖ Surgical treatment</li> <li>❖ Gynecomastia.</li> <li>❖ Introduction to Sexology.</li> <li>❖ Disorders of desire</li> <li>❖ Aetiology of erectile dysfunction</li> <li>❖ Diagnosis of Erectile dysfunction</li> <li>❖ Medical treatment of ED</li> <li>❖ Disorders of libido</li> <li>❖ Sex therapy</li> <li>❖ Sexual Perversions</li> <li>❖ Gene therapy</li> <li>❖ Surgical treatment</li> <li>❖ Ejaculatory disorders</li> <li>❖ Female sexual dysfunction.</li> <li>❖ Sexual deviations.</li> <li>❖ Aging male.</li> </ul>	<p>Didactic;</p> <ul style="list-style-type: none"> <li>-Lectures</li> <li>-Clinical rounds</li> <li>-Seminars</li> <li>-Clinical rotations (service teaching)</li> </ul>	<ul style="list-style-type: none"> <li>-OSCE at the end of each year</li> <li>-log book &amp; portfolio</li> <li>- MCQ examination</li> <li>-Oral and written exam</li> </ul>

<ul style="list-style-type: none"> <li>❖ Introduction to STDs</li> <li>❖ Male genital system inflammations and male accessory gland infections including COVID-19</li> <li>❖ Female genital system inflammations as pelvic inflammatory disease and vaginitis</li> <li>❖ Genodermatosis</li> <li>❖ Male and female genital discharge</li> <li>❖ Gonorrhea</li> <li>❖ Chlamydia</li> <li>❖ Mycoplasma</li> <li>❖ Chancroid</li> <li>❖ Granuloma inguinal</li> <li>❖ Urethritis and urethral discharge</li> <li>❖ Male and Female genital dermatoses</li> <li>❖ Male and Female genital ulcers and neoplasms</li> <li>❖ Inguinoscrotal sweelings</li> <li>❖ Syphilis</li> <li>❖ HIV</li> <li>❖ Herpes Simplex</li> <li>❖ Genital warts</li> <li>❖ Sexually transmitted viral hepatitis</li> <li>❖ Molluscum contagiosum</li> <li>❖ Genital candidiasis</li> <li>❖ Genital trichomoniasis</li> <li>❖ Parasitic STDs</li> </ul>		
<p>B. Outline the principles of  <b>diagnostic&amp;therapeutic&amp;preventive tools in</b></p> <ul style="list-style-type: none"> <li>• Male fertility disorders</li> <li>• <b>Male sexual dysfunction</b></li> <li>• <b>Sexually transmitted infections</b></li> </ul>		
<p>C. State update and evidence based Knowledge of</p> <ul style="list-style-type: none"> <li>• Male fertility disorders</li> <li>• <b>Male sexual dysfunction</b></li> <li>• <b>Sexually transmitted infections</b></li> </ul>		

D. Memorize the facts and principles of the relevant basic and clinically supportive sciences related to <b>Andrology, Sexology &amp; Venereology</b>		
E. Mention the basic ethical and medicolegal principles relevant to the <b>Andrology, Sexology &amp; Venereology</b> .		
F. Mention the basics of quality assurance to ensure good clinical care in his field		
G. Mention the ethical and scientific principles of medical research		
H. State the impact of common health problems in the field of speciality on the society.		

### B- Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Correlates the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases related to <b>Andrology, Sexology &amp; Venereology</b> .	Didactic; -Lectures -Clinical rounds -Seminars -Clinical rotations (service teaching)	-OSCE at the end of each year -log book & portfolio - MCQ examination -Oral and written exam
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches to common clinical situations related to <b>Andrology, Sexology &amp; Venereology</b> .		
C. Design and present cases , seminars in common problem		
D-Formulate management plans and alternative decisions in different situations in the field of the <b>Andrology, Sexology &amp; Venereology</b>		

### C-Practical skills (Patient Care)

ILOs	Methods of teaching/ learning	Methods of Evaluation
<p>A. Take history, examine and clinically diagnose different conditions <b>related to Andrology, Sexology &amp; Venereology</b></p>	<p>-Didactic; -Lectures -Clinical rounds -Seminars -Clinical rotations (service teaching)</p>	<p>- OSCE at the end of each year -log book &amp; portfolio - MCQ examination</p>
<p>B. Order the following non invasive&amp;invasive diagnostic procedures</p> <ul style="list-style-type: none"> <li>- Semen analysis</li> <li>- Urine analysis</li> <li>- Hormonal profile</li> <li>- CASA</li> <li>- sperm function tests</li> <li>- sperm ultrastructure studies</li> <li>- Male hormonal profile</li> <li>- Scrotal duplex</li> <li>- TRUS</li> <li>- penile duplex</li> <li>- vasography</li> <li>- cavernosography</li> <li>- Rigiscan</li> </ul>	<p>Clinical round with senior staff Observation Post graduate teaching Hand on workshops</p>	<p>-Procedure presentation - Log book - Chick list</p>
<p>C. Interpret the following non invasive&amp;invasive diagnostic procedures</p> <ul style="list-style-type: none"> <li>- Semen analysis</li> </ul>	<p>Clinical round with senior staff</p>	<p>Procedure presentation - Log book - Chick list</p>

<ul style="list-style-type: none"> <li>- Male hormonal profile report</li> <li>- Intracorporal injection</li> <li>- testicular biopsy</li> </ul>		
<p><b>D. Perform the following non invasive&amp;invasive diagnostic procedures</b></p> <ul style="list-style-type: none"> <li>- semen analysis</li> <li>- EPS</li> <li>- Testicular biopsy</li> <li>- Intracorporeal injection</li> <li>- cavernosometry.</li> </ul>	<p>Clinical round with senior staff</p> <p>-Perform under supervision of senior staff</p>	<p>Procedure presentation</p> <ul style="list-style-type: none"> <li>- Log book</li> <li>- Chick list</li> </ul>
<p><b>E. Perform the following non invasive&amp;invasive therapeutic procedures</b></p> <ul style="list-style-type: none"> <li>- Cautery of genital warts (chemical and physical)</li> <li>- Intracorporeal injection</li> </ul>		
<p><b>F. Prescribe the following non invasive&amp;invasive therapeutic procedures:</b></p> <ul style="list-style-type: none"> <li>- Medical treatment for male infertility, STDs and sexual dysfunction</li> <li>- Male hormone replacement therapy</li> <li>- Assisted Reproductive Technologies</li> </ul>		
<p><b>G. Carry out patient management plans for the following problems</b></p> <ul style="list-style-type: none"> <li>• Puberty Disorders.</li> <li>• Male infertility.</li> <li>• Ejaculatory dysfunction</li> <li>• Erectile dysfunction.</li> </ul>		

• Sexually transmitted diseases		
H. Use information technology to support patient care decisions and patient education for <b>the Andrology, Sexology &amp; Venereology</b> related conditions.		
I. Provide health care services aimed at preventing the following conditions - Sexually Transmitted diseases - Male reproductive dysfunction		
J. Work with health care professionals, including those from other disciplines, to provide patient-focused care .		
I. Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets.( Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records)		

## D - General Skills

### Practice-Based Learning and Improvement

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Perform practice-based improvement activities using a systematic methodology(audit, logbook)	Case log -Observation and supervision -Written & oral communication	Procedure/case presentation -Log book and Portfolios
B. Appraises evidence from scientific studies(journal club)	Journal clubs - Discussions in seminars and clinical rounds	

C. Conduct epidemiological Studies and surveys.	Clinical rounds Senior staff experience	
D. Perform data management including data entry and analysis.		
E. Facilitate learning of junior students and other health care professionals.		

### Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
F. Maintain therapeutic and ethically sound relationship with patients.	Simulations Clinical round Seminars Lectures Case presentation Hand on workshops	Global rating Procedure/case presentation Log book Portfolios Chick list
G. Elicit information using effective nonverbal, explanatory, questioning, and writing skills.		
H. Provide information using effective nonverbal, explanatory, questioning, and writing skills.		
I. Work effectively with others as a member of a health care team or other professional group.		
J. Present a case in seminar		
K. Write a report in discharge card.		
L. Council patients and families about conditions the following Basic Andrology <ul style="list-style-type: none"> <li>Male infertility</li> <li>Sexology and sex education.</li> </ul> Sexually transmitted diseases		

### Professionalism

ILOs	Methods of teaching/ learning	Methods of Evaluation
M. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society	Observation Senior staff experience Case taking	1. Objective structured clinical examination

		2. Patient survey
N. Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, business practices		1. 360o global rating
O. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		

### Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
P. Work effectively in relevant health care delivery settings and systems.	Observation Senior staff experience	1. 360o global rating
Q. Practice cost-effective health care and resource allocation that does not compromise quality of care.		1. Check list evaluation of live or recorded performance
R. Assist patients in dealing with system complexities.		

**4. Course contents (topic s/modules/rotation**  
**Course Matrix**

**Time Schedule: Second part**

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
<b>VENEROLOGY &amp; Andrology</b>				
Embryology of male genital tract: <ul style="list-style-type: none"> <li>• Sex differentiation.</li> <li>• Development and descent of the testis.</li> <li>• Development of internal and external genitalia.</li> </ul>	<b>A,D,E</b>	<b>A</b>	-	-
Anatomy of male genital tract: <ul style="list-style-type: none"> <li>• Anatomy of Gonads.</li> <li>• Internal and External genitalia.</li> </ul>	<b>A,D,E</b>	<b>A</b>	<b>H</b>	<b>E</b>
Physiology pf Reproduction: <ul style="list-style-type: none"> <li>• Spermatogenesis.</li> <li>• Hormonal Control</li> <li>• Fertilization and implantation.</li> </ul>	<b>A-E</b>	<b>A</b>	<b>B-K</b>	<b>A,B,D, E</b>
Physiology of Sex response cycle: <ul style="list-style-type: none"> <li>• Desire.</li> <li>• Excitation.</li> <li>• Orgasm.</li> </ul>	<b>A-E</b>	<b>A</b>	<b>B-K</b>	<b>A,B,D, E</b>

<ul style="list-style-type: none"> <li>• Resolution</li> </ul>				
Physiology of Ejaculation: <ul style="list-style-type: none"> <li>• Central and peripheral nervous system.</li> </ul>	<b>A-E</b>	<b>A</b>	<b>B-K</b>	<b>A,B,D, E</b>
Biochemistry of Seminal plasma and prostatic secretions.	<b>A-E</b>	<b>A</b>	<b>B-K</b>	<b>A,B,D, E</b>
Pathology of male Genital tract: <ul style="list-style-type: none"> <li>• Testicular inflammations.</li> <li>• Testicular Tumours.</li> <li>• Epididymal; Tumours.</li> <li>• Prostaic hyperplasia.</li> <li>• Prostatic Tumour.</li> </ul>	<b>A-H</b>	<b>A</b>	<b>B-K</b>	<b>A,B,D, E</b>
Genetics and Mollecular biology of human reproduction	<b>A-H</b>	<b>A</b>		<b>D, H-M</b>
Introduction to Andrology.	<b>A,D,E</b>	<b>A</b>		<b>-</b>
Congenital anomalies of male genital tract: <ul style="list-style-type: none"> <li>• Anomalies of the Testes.</li> <li>• Anomalies of the penis and Urethra.</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Puberty disorders: <ul style="list-style-type: none"> <li>• Precocious puberty.</li> <li>• Delayed Puberty.</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Gynecomastia	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Andropause	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Introduction to male infertility	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>

Obstructive male infertility: <ul style="list-style-type: none"> <li>• Intratesticular.</li> <li>• Epididymal.</li> <li>• Vasal.</li> <li>• Ejaculatory duct obstruction.</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Endocrinal infertility: <ul style="list-style-type: none"> <li>• Hypothalamic.</li> <li>• Pituitary.</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Immunological male infertility.	<b>A-H</b>	<b>A-C</b>	<b>A-K</b>	<b>A-R</b>
Genetic infertility.	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Ejaculatory and Coital infertility.	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
MAGI (male accessory glands infections).	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Varicocele.	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Cryptorchidism.	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Testicular Torsion		<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Miscellaneous causes of male infertility	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Clinical diagnosis of male infertility: <ul style="list-style-type: none"> <li>• History.</li> <li>• Examination.</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Investigations of male infertility: <ul style="list-style-type: none"> <li>• Manual Semen analysis.</li> <li>• CASA.</li> <li>• Electron Microscopy.</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>

<ul style="list-style-type: none"> <li>• Bacteriologic Examination of Semen.</li> <li>• Hormonal evaluation.</li> <li>• Imaging Technique.</li> <li>• Chromatin studies.</li> <li>• Antisperm antibodies.</li> </ul>				
Medical treatment of male infertility: <ul style="list-style-type: none"> <li>• Specific Treatment.</li> <li>• Non specific treatment.</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Assisted reproductive techniques: <ul style="list-style-type: none"> <li>• IUI.</li> <li>• IVF.</li> <li>• ICSI.</li> <li>• New techniques.</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>I,K</b>	<b>A-R</b>
Male contraception: <ul style="list-style-type: none"> <li>• Mechanical.</li> <li>• Physiological.</li> <li>• Chemical.</li> <li>• Hormonal.</li> <li>• Surgical</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>I,K</b>	<b>A-R</b>
Introduction to Sexology	<b>A-H</b>	<b>A</b>	<b>H</b>	<b>-</b>
Disorders of sexual development: <ul style="list-style-type: none"> <li>• Intersex .</li> <li>• Micropenis.</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>A-C, K</b>	<b>A-R</b>
Disorders of psychosexual maturation:	<b>A-G</b>	<b>A-D</b>	<b>,K</b>	<b>A-R</b>

<ul style="list-style-type: none"> <li>• Gender identity disorders.</li> <li>• Homosexuality.</li> <li>• Rape.</li> <li>• Incyst.</li> <li>• Paraphilias.</li> </ul>				
Disorders of Libido: <ul style="list-style-type: none"> <li>• HSD.</li> <li>• ISD.</li> <li>• Hyperlibido.</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Aetiology of erectile dysfunction		<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Clinical diagnosis of ED: <ul style="list-style-type: none"> <li>• History.</li> <li>• Examination</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Investigations of ED: <ul style="list-style-type: none"> <li>• ICI.</li> <li>• Penile duplex.</li> <li>• Rigiscan.</li> <li>• Cavernosography.</li> <li>• Cavernosometry.</li> <li>• Hormonal evaluation.</li> <li>• Investigations for the cause.</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Medical Treatment of ED: <ul style="list-style-type: none"> <li>• Systemic.</li> <li>• ICI.</li> <li>• Local</li> <li>• MUSE</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Sex therapy of sexual disorders:	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>

<ul style="list-style-type: none"> <li>• Educational psychosexual therapy.</li> <li>• Behavioral psychosexual therapy.</li> <li>• Analytic psychosexual therapy.</li> </ul>				
Peyronies disease.	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Priapism: <ul style="list-style-type: none"> <li>• Low Flow priapism.</li> <li>• High Flow priapism.</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Female sexual dysfunction: <ul style="list-style-type: none"> <li>• HSD and ISD.</li> <li>• Sexual arousal disorders.</li> <li>• Inhibited orgasm.</li> <li>• Anorgasmia.</li> <li>• Vaginismus.</li> <li>• Dyspareunia.</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>I,K</b>	<b>A-R</b>
Ejaculatory disorders: <ul style="list-style-type: none"> <li>• Premature ejaculation.</li> <li>• Delayed ejaculation.</li> <li>• Anejaculation.</li> <li>• Retrograde ejaculation.</li> <li>• Anorgasmia.</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Androgens and Replacement therapy: <ul style="list-style-type: none"> <li>• Oral.</li> <li>• Parental.</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>

<ul style="list-style-type: none"> <li>• Local.</li> <li>• Implant</li> </ul>				
Scrotal swelling	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Testicular Torsion	<b>A-E</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Introduction to Sexually transmitted disease.	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Gonorrhoea	<b>A-D</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Non gonococcal Urethritis	<b>A-D</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Lymphogranuloma venerium	<b>A-D</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Syphilis	<b>A-D</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Chancroid	<b>A-D</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Mycoplasma	<b>A-D</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Granuloma inguinal	<b>A-D</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Genital herpes	<b>A-D</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Genital warts	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
HIV and viral hepatitis	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Molluscum contagiosum	<b>A-D</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Other viral STDs: Epstien Bar Virus. Cytomegalovirus.	<b>A-D</b>	<b>A-D</b>	<b>G-K</b>	<b>A-R</b>
Fungal STDs	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Protozoal STDs	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Parasitic STDs	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	
Prostatitis: <ul style="list-style-type: none"> <li>• Bacterial.</li> <li>• A Bacterial.</li> <li>• Granulomatous.</li> <li>• Inflammatory</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Epididymitis and epididymo-orchitis: <ul style="list-style-type: none"> <li>• Bacterial.</li> <li>• Non Bacterial.</li> <li>• Chemical.</li> </ul>	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>

Urethritis: • Gonococcal. • Non gonococcal	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Vaginitis	<b>A-H</b>	<b>A-D</b>	<b>I,J</b>	<b>A-R</b>
Balanitis and Posthitis	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Vulvitis	<b>A-H</b>	<b>A-D</b>	<b>I,J</b>	<b>A-R</b>
Pelvic inflammatory disease	<b>A-H</b>	<b>A-D</b>	<b>I,J</b>	<b>A-R</b>
STDs causing urethral discharge	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
STDs causing genital ulcers	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
STDs causing arthritis and Reiter's disease	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
STDs with oral affections	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
STDs with neurological affection	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
STDs with ocular affection	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
STDs with lymphadenopathy	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>
Male and Female genital dermatoses and neoplasms	<b>A-H</b>	<b>A-D</b>	<b>A-K</b>	<b>A-R</b>

### **5. Methods of teaching/learning:**

- Didactic (lectures, seminars, tutorial)
- Outpatient
- Inpatient
- Case presentation
- Direct observation
- journal club
- Critically appraised topic.
- Educational prescription
- Clinical rounds

- Clinical rotation in dermabrasion, laser and biopsy room
- Senior staff experience
- Case log
- Observation and supervision
- Written & oral communications
- Simulation
- Hand on work shop
- Service teaching
- Perform under supervision of senior staff
- Postgraduate teaching

#### **6. Course Methods of teaching/learning: for students with poor achievements**

- Extra Didactic (lectures, seminars, tutorial) according to their needs
- Extra training according to their needs

#### **7. Course assessment methods:**

##### **i. Assessment tools:**

Oral examination  
 Clinical examination  
 Written examination  
 Objective structure clinical examination (OSCE)  
 Procedure/case Log book and Portfolios  
 Simulation  
 Record review (report)  
 Patient survey  
 Global rating  
 Check list evaluation of live or recorded performance

##### **ii. Time schedule: 2-4 years**

##### **iii. Marks: ...1200 ,(500 didactic, 360 oral and 340 clinical), 60% MODULE 1, 40% MODULE 2**

## 8. List of references

### i. Lectures notes

Hard or soft copies from lectures by staff members of the Dep. of Dermatology, Venereology & Andrology

### ii. Essential books

Principles of Dermatology, Venereology & Andrology Book by Staff Members of the Department of Dermatology, Venereology & Andrology -Assiut University  
Ashraf Fayez book of Andrology, 2018

### iii. Recommended books

-Sexually transmitted diseases of the tropics (Arya), Male Reproductive Health and Dysfunction (Neichlag 3<sup>rd</sup> edition), 2016.  
-Text book of Erectile Dysfunction (Goldstein), Male Infertility (Lipshultz), 2nd edition, eBook, ISBN 9781841846460  
Published December 22, 2008 by CRC Press.

### iv. Periodicals, Web sites, ... etc

i. Asian J of Andrology website ([www.AJA.org](http://www.AJA.org))

### v. others

Periodic Journal clubs and scientific meetings arranged in the Dep. of Dermatology, Venereology & Andrology

## 9. Signatures

<b>Course Coordinator:</b> <b>Prof. Dr. Emad Abdelraheem Taha</b>	<b>Head of the Department:</b> <b>Prof. Dr. Eman Riad Mohamed</b>
<b>Date: 4-2022</b>	<b>Date: 4-2022</b>

## **ANNEX 2**

# **Program Academic Reference Standards (ARS)**

### ***1- Graduate attributes for master degree in Dermatology and venerology***

***The Graduate (after residence training and master degree years of study) must:***

- 1-** Have the capability to be a scholar, understanding and applying basics, methods and tools of scientific research and clinical audit in ***Dermatology and venerology***.
- 2-** Appraise and utilise scientific knowledge to continuously update and improve clinical practice in related ***Dermatology and venerology***.
- 3-** Acquire sufficient medical knowledge in the basic biomedical, clinical, behavioural and clinical sciences, medical ethics and medical jurisprudence and apply such knowledge in patient care in the field of ***Dermatology and venerology***.
- 4-** Provide patient care that is appropriate, effective and compassionate for dealing with common health problems and health promotion using evidence-based and updated information.
- 5-** Identify and share to solve health problems in his speciality.
- 6-** Acquire all competencies –including the use of recent technologies- that enable him to provide safe, scientific, and ethical and evidence based clinical care including update use of new technology in ***Dermatology and venerology***.
- 7-** Demonstrate interpersonal and communication skills that ensure effective information exchange with individual patients

and their families and teamwork with other health professions, the scientific community and the public.

**8-** Function as supervisor, and trainer in relation to colleagues, medical students and other health professions.

**9-** Acquire decision making capabilities in different situations related to ***Dermatology and venerology***.

**10-** Show responsiveness to the larger context of the health care system, including e.g. the organisation of health care, partnership with health care providers and managers, practice of cost-effective health care, health economics, and resource allocations.

**11-** Be aware of public health and health policy issues and share in system-based improvement of health care.

**12-** Show appropriate attitudes and professionalism.

**13-** Demonstrate skills of lifelong learning and maintenance of competence and ability for continuous medical education and learning in subsequent stages in ***Dermatology and venerology*** or one of its subspecialties.

## ***2- Competency based Standards for clinical master degree graduates***

### **2.1- Knowledge and understanding**

***By the end of the program, the graduate should demonstrate satisfactory knowledge and understanding of***

**2-1-A-** Established basic, biomedical, clinical, epidemiological and behavioral sciences related conditions, problem and topics.

**2-1-B-** The relation between good clinical care of common health problems in the ***Dermatology and venerology*** and the welfare of society.

**2-1-C-** Up to date and recent developments in common problems related to ***Dermatology and venerology***.

**2-1-D-** Ethical and medicolegal principles relevant to practice in ***Dermatology and venerology***.

**2-1-E** -Quality assurance principles related to the good medical practice in ***Dermatology and venerology***.

**2-1-F-** Ethical and scientific basics of medical research.

### **2.2- Intellectual skills:**

***By the end of the program, the graduate should be able to demonstrate the following:***

**2-2-A-** Correlation of different relevant sciences in the problem solving and management of common diseases of ***Dermatology and venerology***.

**2-2-B-** Problem solving skills based on data analysis and evaluation (even in the absence of some) for common clinical situations related to ***Dermatology and venerology***.

**2.2- C-** Demonstrating systematic approach in studying clinical problems relevant to ***Dermatology and venerology***.

**2-2-D-** Making alternative decisions in different situations in ***Dermatology and venerology***.

### **2.3- Clinical skills**

***By the end of the program, the graduate should be able to***

**2-3-A** - Provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.

**2-3-B**- Demonstrate patient care skills relevant to ***Dermatology and venerology*** for patients with common diseases and problems.

**2-3- C**- Write and evaluate reports for situations related to the field of ***Dermatology and venerology***.

### **2.4- General skills**

***By the end of the program, the graduate should be able to***

#### ***Competency-based outcomes for Practice-based Learning and Improvement***

**2-4-A**- Demonstrate practice-based learning and improvement skills that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence,, improvements in patient care and risk management.

**2-4-B**- Use all information sources and technology to improve his practice.

**2-4-C**- Demonstrate skills of teaching and evaluating others.

#### ***Competency-based objectives for Interpersonal and Communication Skills***

**2-4-D**- Demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their families, and other health professionals.

#### ***Competency-based objectives for Professionalism***

**2-4-E**- Demonstrate professionalism behaviors, as manifested through a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.

 ***Competency-based objectives for Systems-based Practice***

**2-4-F-** Demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively use system resources to provide care that is of optimal value.

**2-4-g-** Demonstrate skills of effective time management.

**2-4-H-** Demonstrate skills of self and continuous learning.

# Annex 3, Methods of teaching/learning

**Annex 3, Methods of teaching/learning**

	Patient care	Medical knowledge	Practice- based learning/ Improvement	Interpersonal and communication skills	Professionalism	Systems- based practice
Didactic (lectures, seminars, tutorial )	X	X		X	X	X
journal club,	X	X	X			
Educational prescription	X	X	X	X	X	X
Present a case (true or simulated) in a grand round	X	X	X	X	X	
Observation and supervision	X		X	X	X	X
conferences		X	X	X		X
Written assignments	X	X	X	X	X	X
Oral assignments	X	X	X	X	X	X

### **Teaching methods for knowledge**

- ❖ Didactic (lectures, seminars, tutorial )
- ❖ journal club
- ❖ Critically appraised topic
- ❖ Educational prescription (a structured technique for following up on clinical questions that arise during rounds and other venues).
- ❖ Present a case (true or simulated) in a grand round
- ❖ Others

### **Teaching methods for patient care**

- ❖ Observation and supervision /Completed tasks procedure/case logs
- ❖ On-the-job” training without structured teaching is not sufficient for this skill (checklists).
- ❖ Simulation is increasingly used as an effective method for skill/ teamwork training.

### **Teaching methods for other skills**

- ❖ Written communication (e.g., orders, progress note, transfer note, discharge summary, operative reports, and diagnostic reports).
- ❖ Oral communication (e.g., presentations, transfer of care, interactions with patients, families, colleagues, members of the health care team) and/or non verbal skills (e.g., listening, team skills)

- ❖ Professionalism, including medical ethics, may be included as a theme throughout the program curriculum that includes both didactic and experiential components (e.g., may be integrated into already existing small group discussions of vignettes or case studies and role plays, computer-based modules) and may be modeled by the faculty in clinical practice and discussed with the resident as issues arise during their clinical practice.

# Annex 4, Assessment methods

**Annex 4, ILOs evaluation methods for Master Degree students.**

Method	Practical skills	K	Intellectual	General skills			
	Patient care	K	I	Practice-based learning/Improvement	Interpersonal and communication skills	Professionalism	Systems-based practice
Record review	X	X	X		X	X	X
Checklist	X				X		
Global rating	X	X	X	X	X	X	X
Simulations	X	X	X	X	X	X	
Portfolios	X	X	X	X	X		
Standardized oral examination	X	X	X	X	X		X
Written examination	X	X	X	X			X
Procedure/case log	X	X					
OSCE	X	X	X	X	X	X	X

#### **Annex 4, Glossary of Master Degree doctors assessment methods**

- ❖ Record Review – Abstraction of information from patient records, such as medications or tests ordered and comparison of findings against accepted patient care standards.
- ❖ Chart Stimulated Recall – Uses the MSc doctor's patient records in an oral examination to assess clinical decision-making.
- ❖ Mini clinical evaluation: Evaluation of Live/Recorded Performance (single event) – A single resident interaction with a patient is evaluated using a checklist. The encounter may be videotaped for later evaluation.
- ❖ Standardized Patients (SP) – Simulated patients are trained to respond in a manner similar to real patients. The standardized patient can be trained to rate MSc doctor's performance on checklists and provide feedback for history taking, physical examination, and communication skills. Physicians may also rate the MSc doctor's performance.
- ❖ Objective Structured Clinical Examination (OSCE) – A series of stations with standardized tasks for the MSc doctors to perform. Standardized patients and other assessment methods often are combined in an OSCE. An observer or the standardized patient may evaluate the MSc doctors.

- ❖ Procedure or Case Logs – MSc doctors prepare summaries of clinical experiences including clinical data. Logs are useful to document educational experiences and deficiencies.
- ❖ PSQs – Patients fill out Patient Survey questionnaires (PSQs) evaluating the quality of care provided by a MSc doctors.
- ❖ Case /problems – assess use of knowledge in diagnosing or treating patients or evaluate procedural skills.
- ❖ Models: are simulations using mannequins or various anatomic structures to assess procedural skills and interpret clinical findings. Both are useful to assess practice performance and provide constructive feedback.
- ❖ 360 Global Rating Evaluations – MSc doctors, faculty, nurses, clerks, and other clinical staff evaluate MSc doctors from different perspectives using similar rating forms.
- ❖ Portfolios – A portfolio is a set of project reports that are prepared by the MSc doctors to document projects completed during the MSc study years. For each type of project standards of performance are set. Example projects are summarizing the research literature for selecting a treatment option, implementing a quality improvement program, revising a medical student clerkship elective, and creating a computer program to track patient care and outcomes.
- ❖ Examination MCQ – A standardized examination using multiple-choice questions (MCQ). The in-training examination and written board examinations are examples.

- ❖ Examination Oral – Uses structured realistic cases and patient case protocols in an oral examination to assess clinical decision-making.
- ❖ Procedure or Case Logs – MSc doctors prepare summaries of clinical experiences including clinical data. Logs are useful to document educational experiences and deficiencies.
- ❖ PSQs – Patients fill out Patient Survey questionnaires (PSQs) evaluating the quality of care provided by MSc doctors.

# Annex 5, program evaluation tools

By whom	Method	sample
Quality Assurance Unit	Reports Field visits	#
External Evaluator (s):According to department council External Examiner (s): According to department council	Reports Field visits	#
Stakeholders	Reports Field visits Questionnaires	#
Senior students	Questionnaires	#
Alumni	Questionnaires	#

# Annex 6, program Correlations:

مصفوفة توافق المعايير القومية القياسية العامة لبرامج الماجستير مع المعايير الأكاديمية المعتمدة  
من كلية الطب □ جامعة أسيوط لدرجة الماجستير في الامراض الجلدية و التناسلية

## I- General Academic Reference Standards (GARS) versus Program ARS

### 1- Graduate attributes

Faculty ARS	NAQAEE General ARS for Postgraduate programs
1- Have the capability to be a scholar, understanding and applying basics, methods and tools of scientific research and clinical audit in <i>Dermatology &amp; Venereology</i> .	1- إجادة تطبيق أساسيات و منهجيات البحث العلمي واستخدام أدواته المختلفة
2- Appraise and utilise scientific knowledge to continuously update and improve clinical practice in <i>Dermatology &amp; Venereology</i> .	2- تطبيق المنهج التحليلي واستخدامه في مجال التخصص
3- Acquire sufficient medical knowledge in the basic biomedical, clinical, behavioural and clinical sciences, medical ethics and medical jurisprudence and apply such knowledge in patient care in <i>Dermatology &amp; Venereology</i> .	3- تطبيق المعارف المتخصصة و دمجها مع المعارف ذات العلاقة في ممارسته المهنية

<p>4- Provide patient care that is appropriate, effective and compassionate for dealing with common health problems and health promotion using evidence-based and update information.</p>	<p>4- إظهار وعيا بالمشاكل الجارية و الرؤى الحديثة في مجال التخصص</p>
<p>5- Identify and share to solve health problems in <i>Dermatology &amp; Venereology</i>.</p>	<p>5- تحديد المشكلات المهنية و إيجاد حلول لها</p>
<p>6- Acquire all competencies that enable him to provide safe, scientific, ethical and evidence based clinical care including update use of new technology in <i>Dermatology &amp; Venereology</i>.</p>	<p>6- إتقان نطاق مناسب من المهارات المهنية المتخصصة، واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية</p>
<p>7- Demonstrate interpersonal and communication skills that ensure effective information exchange with individual patients and their families and teamwork with other health professions, the scientific community and the public.</p> <p>8- Function as supervisor, and trainer in relation to colleagues, medical students and other health professions.</p>	<p>7- التواصل بفاعلية و القدرة على قيادة فرق العمل</p>

9- Acquire decision making capabilities in different situations related to <i>Dermatology &amp; Venereology</i> .	8- اتخاذ القرار في سياقات مهنية مختلفة
10- Show responsiveness to the larger context of the health care system, including e.g. the organisation of health care, partnership with health care providers and managers, practice of cost-effective health care, health economics, and resource allocations.	9- توظيف الموارد المتاحة بما يحقق أعلى استفادة و الحفاظ عليها
11- Be aware of public health and health policy issues and share in system-based improvement of health care.	10- إظهار الوعي بدوره في تنمية المجتمع و الحفاظ على البيئة في ضوء المتغيرات العالمية و الإقليمية
12- Show appropriate attitudes and professionalism.	11- التصرف بما يعكس الالتزام بالنزاهة و المصداقية و الالتزام بقواعد المهنة
13- Demonstrate skills of lifelong learning and maintenance of competence and ability for continuous medical education and learning in subsequent stages in <i>Dermatology &amp; Venereology</i> or one of its subspecialties.	12- تنمية ذاته أكاديميا و مهنيا و قادرا علي التعلم المستمر

## 2. Academic standard

Faculty ARS	NAQAAE General ARS for Postgraduate programs
2.1.A -Established basic, biomedical, clinical, epidemiological and behavioral sciences related conditions, problems and topics.	2-1-أ- النظريات و الأساسيات المتعلقة بمجال التعلم وكذا في المجالات ذات العلاقة.
2.1.B- The relation between good clinical care of common health problems in and the welfare of society.	2-1-ب- التأثير المتبادل بين الممارسة المهنية وانعكاسها علي البيئة.
2.1. C- Up to date and recent developments in common problems related to <i>Dermatology &amp; Venereology</i> .	2-1-ج- التطورات العلمية في مجال التخصص.
2.1. D- Ethical and medicolegal principles relevant to practice in the <i>Dermatology &amp; Venereology</i> .	2-1-د- المبادئ الأخلاقية و القانونية للممارسة المهنية في مجال التخصص.
2.1. E- Quality assurance principles related to the good medical practice in <i>Dermatology &amp; Venereology</i> .	2-1-هـ- مبادئ و أساسيات الجودة في الممارسة المهنية في مجال التخصص
2.1. F- Ethical and scientific basics of medical research.	2-1-و- أساسيات وأخلاقيات البحث العلمي

<p>2.2. A-Correlation of different relevant sciences in the problem solving and management of common diseases of <i>Dermatology &amp; Venereology</i>.</p> <p>2.2. B- Problem solving skills based on data analysis and evaluation (even in the absence of some) for common clinical situations related to <i>Dermatology &amp; Venereology</i>.</p>	<p>2-2-أ- تحليل و تقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل</p>
<p>2.2. B- Problem solving skills based on data analysis and evaluation (even in the absence of some) for common clinical situations related to <i>Dermatology &amp; Venereology</i>.</p>	<p>2-2-ب- حل المشاكل المتخصصة مع عدم توافر بعض المعطيات</p>
<p>2.2. A-Correlation of different relevant sciences in the problem solving and management of common diseases of <i>Dermatology &amp; Venereology</i>.</p>	<p>2-2-ج- الربط بين المعارف المختلفة لحل المشاكل المهنية</p>
<p>2.2. C- Demonstrating systematic approach in studying clinical problems relevant to the <i>Dermatology &amp; Venereology</i></p>	<p>2-2-د- إجراء دراسة بحثية و /أو كتابة دراسة علمية منهجية حول مشكلة بحثية</p>

<p>2.4.A-Demonstrate practice-based learning and Improvement skills that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, improvements in patient care and risk management</p>	<p>2-2هـ- تقييم المخاطر في الممارسات المهنية في مجال التخصص</p>
<p>2.4.A-Demonstrate practice-based learning and Improvement skills that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, improvements in patient care and risk management</p>	<p>2-2و- التخطيط لتطوير الأداء في مجال التخصص</p>
<p>2.2.D- Making alternative decisions in different situations in the field of <i>Dermatology &amp; Venereology</i>.</p>	<p>2-2ز- اتخاذ القرارات المهنية في سياقات مهنية متنوعة</p>
<p>2.3.A- provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.</p> <p>2.3.B- Demonstrate patient care skills relevant to <i>Dermatology &amp; Venereology</i></p>	<p>2-3أ- إتقان المهارات المهنية الأساسية و الحديثة في مجال التخصص</p>

for patients with common diseases and problems.	
2.3.C- Write and evaluate reports for  Situation related to <i>Dermatology &amp; Venereology</i> .	2-3-ب- كتابة و تقييم التقارير المهنية
2.3.A- provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health. 2.3.B- Demonstrate patient care skills relevant to that <i>Dermatology &amp; Venereology</i> for patients with common diseases and problems.	2-3-ج- تقييم الطرق و الأدوات القائمة في مجال التخصص
2.4.D- Demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their families, and other health professionals.	2-4-أ- التواصل الفعال بأنواعه المختلفة
2.4.A-Demonstrate practice-based learning and improvement skills that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, improvements in patient care and risk management 2.4.B- Use all information sources and	2-4-ب- استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية

technology to improve his practice.	
<p>2.4.A-Demonstrate practice-based learning and improvement skills that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, improvements in patient care and risk management</p> <p>2.4.B- Use all information sources and technology to improve his practice.</p> <p>2.4.E-Demonstrate professionalism behavior, as manifested through a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.</p>	<p>2-4-ج- التقييم الذاتي وتحديد احتياجاته التعليمية الشخصية</p>
<p>2.4.A-Demonstrate practice-based learning and improvement skills that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, , improvements in patient care and risk management.</p>	<p>2-4-د- استخدام المصادر المختلفة للحصول على المعلومات و المعارف</p>

2.4. C- Demonstrate skills of teaching and evaluating others.	2-4-2 هـ- وضع قواعد ومؤشرات تقييم أداء الآخرين
2.4. F- Demonstrate an awareness of  and responsiveness to the larger context and system of health care and the ability to effectively use system resources to provide care that is of optimal value.	2-4-2 و- العمل في فريق ، وقيادة فرق في سياقات مهنية مختلفة
2.4.G- Demonstrate skills of effective time management.	2-4-2 ز- إدارة الوقت بكفاءة
2.4.H- Demonstrate skills of self and continuous learning.	2-4-2 ح- التعلم الذاتي و المستمر

**Comparison between ARS and ILOS for master degree  
in *Speciality***

<b>(ARS)</b>	<b>(ILOs)</b>
<p><b><u>2-1- Knowledge and understanding</u></b></p> <p><b>2-1-A-</b> Established basic, biomedical, clinical, epidemiological and behavioral sciences related conditions, problem and topics.</p>	<p><b><u>2-1- Knowledge and understanding</u></b></p> <p><b>2-1-A-</b> Explain the essential facts and principles of relevant basic sciences including, , pathology, physiology , biochemistry, microbiology and mycology related to <i>Dermatology &amp; Venereology</i>.</p> <p><b>2-1-B-</b> Mention <u>essential facts</u> of clinically supportive sciences including Basics of internal medicine, general and plastic surgery and psychiatry related to <i>Dermatology &amp; Venereology</i></p> <p><b>2-1-C-</b> Demonstrate sufficient knowledge of etiology, clinical picture, diagnosis, prevention and treatment of the common diseases and situations related to <i>Dermatology &amp; Venereology</i>.</p>
<p><b>2-1-B</b> The relation between good clinical care of common health problem in the <i>Dermatology</i></p>	<p><b>2-1-H-</b> State the impact of common health problems in the field of <i>Dermatology &amp; Venereology</i> on the society and how good clinical</p>

<i>&amp;Venereology</i> and the welfare of society.	practice improve these problems.
<b>2-1-C-</b> Up to date and recent developments in common problems related to the field of <i>Dermatology &amp;Venereology</i> .	<b>2-1-C-</b> Demonstrate sufficient knowledge of etiology, clinical picture, diagnosis, prevention and treatment of the common diseases and situations related to <i>Dermatology &amp;Venereology</i> . <b>2-1-D-</b> Give the recent and update developments in the pathogenesis, diagnosis, prevention and treatment of common diseases related to <i>Dermatology &amp;Venereology</i> .
<b>2-1-D-</b> Ethical and medicolegal Principles relevant to practice in the <i>Dermatology &amp;Venereology</i> field.	<b>2-1-E-</b> Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to the field of <i>Dermatology &amp;Venereology</i> .
<b>2-1-E-</b> Quality assurance principles related to the good medical practice in the <i>Dermatology &amp;Venereology</i> field.	<b>2-1-F-</b> Mention the basics and standards of quality assurance to ensure good clinical practice in the field <i>Dermatology &amp;Venereology</i> .
<b>2-1-F-</b> Ethical and scientific basics of medical research.	<b>2-1-G-</b> Mention the ethical and scientific principles of medical research methodology.

<p><b><u>2-2- Intellectual skills:</u></b></p> <p><b>2-2-A-</b>Correlation of different relevant sciences in the problem solving and management of common diseases of the <i>Dermatology &amp;Venereolog.</i></p>	<p><b><u>2-2- Intellectual skills:</u></b></p> <p><b>2-2-A-</b> Correlate the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases of the <i>Dermatology &amp;Venereology.</i></p>
<p><b>2-2-B-</b>Problem solving skills based on data analysis and evaluation (even in the absence of some) for common clinical situations related to <i>Dermatology &amp;Venereology.</i></p>	<p><b>2-2-B-</b> Demonstrate an investigatory and analytic thinking approach (problem solving) to common clinical situations related to <i>Dermatology &amp;Venereology</i></p>
<p><b>2-2-C-</b> Demonstrating systematic approach in studding clinical problems relevant to the <i>Dermatology &amp;Venereology</i> field.</p>	<p><b>2-2-C-</b> Design and /or present a case or review (through seminars/journal clubs.) in one or more of common clinical problems relevant to the <i>Dermatology &amp;Venereology</i> field.</p>
<p><b>2-2-D</b> Making alternative decisions in different situations in the field of the <i>Dermatology &amp;Venereology.</i></p>	<p><b>2-2-D-</b> Formulate management plans and alternative decisions in different situations in the field of the <i>Dermatology &amp;Venereology.</i></p>

continuous <b>(ARS)</b>	continuous <b>(ILOs)</b>
<p><b><u>2-3- Clinical skills:</u></b></p> <p><b>2-3-A-</b> Provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.</p> <p><b>2-3-B-</b> Demonstrate patient care skills relevant to that <i>Dermatology &amp; Venereology</i> for patients with common diseases and problems.</p>	<p><b><u>2/3/1/Practical skills (Patient Care :)</u></b></p> <p><b>2-3-1-A-</b> Obtain proper history and examine patients in caring and respectful behaviors.</p> <p><b>2-3-1-B-</b> Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment for common conditions related to <i>Dermatology &amp; Venereology</i>.</p> <p><b>2-3-1-C-</b> Carry out patient management plans for common conditions related to <i>Dermatology &amp; Venereology</i>.</p> <p><b>2-3-1-D-</b> Use information technology to support patient care decisions and patient education in common clinical situations related to <i>Dermatology &amp; Venereology</i>.</p> <p><b>2-3-1-E-</b> Perform competently non invasive and invasive procedures considered</p>

	<p>essential for the <i>Dermatology &amp; Venereology</i>.</p> <p><b>2-3-1-F-</b> Provide health care services aimed at preventing health problems related to <i>Dermatology &amp; Venereology</i>.</p> <p><b>2-3-1-G-</b> Provide patient-focused care in common conditions related to <i>Dermatology &amp; Venereology</i> while working with health care professionals, including those from other disciplines.</p>
<p><b>2-3-C-</b> Write and evaluate reports for situations related to the field of <i>Dermatology &amp; Venereology</i>.</p>	<p><b>-3-1-H</b> Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets. (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records).</p>
<p><b><u>2-4- General skills</u></b></p> <p><b>2-4-A-</b> Demonstrate practice-based learning and improvement skills that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, improvements in</p>	<p><b><u>2/3/2 General skills</u></b></p> <p><b>2-3-2-A-</b> Perform practice-based improvement activities using a systematic methodology (share in audits and risk management activities and use logbooks).</p> <p><b>2-3-2-B-</b> Appraises evidence from scientific studies.</p>

patient care and risk management	<b>2-3-2-C-</b> Conduct epidemiological studies and surveys.
<b>2-4-B-</b> Use all information sources and technology to improve his practice.	<b>2-3-2-C-</b> Conduct epidemiological studies and surveys.  <b>2-3-2-D.</b> Perform data management including data entry and analysis and using information technology to manage information, access on-line medical information; and support their own education.
<b>2-4-C-</b> Demonstrate skills of teaching and evaluating others.	<b>2-3-2-E-</b> Facilitate learning of students other health care professionals including their evaluation and assessment.
<b>2-4-D-</b> Demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their families, and other health professionals.	<b>2-3-2-F-</b> Maintain therapeutic and ethically sound relationship with patients.  <b>2-3-2-G-</b> Elicit information using effective nonverbal, explanatory, questioning, and writing skills.  <b>2-3-2-H-</b> Provide information using effective nonverbal, explanatory, questioning, and writing skills.  <b>2-3-2-I-</b> Work effectively with others as a member of a health care team or other professional group.

<p><b>2-4-E-</b>Demonstrate professionalism behaviors, as manifested through a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.</p>	<p><b>2-3-2-J-</b> Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society.</p> <p><b>2-3-2-K-</b> Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, business practices.</p> <p><b>2-3-2-L-</b>Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.</p>
<p><b>2-4-F-</b> Demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively use system resources to provide care that is of optimal value.</p>	<p><b>2-3-2-M-</b>Work effectively in relevant health care delivery settings and systems including good administrative and time management</p> <p><b>2-3-2-N-</b> Practice cost-effective health care and resource allocation that does not compromise quality of care.</p> <p><b>2-3-2-O-</b> Assist patients in dealing with system complexities.</p>
<p><b>2-4-G-</b> Demonstrate skills of effective time management</p>	<p><b>2-3-2-M-</b>Work effectively in relevant health care delivery settings and systems including good</p>

	administrative and time management
<b>2-4-H-</b> Demonstrate skills of self and continuous learning.	<b>2-3-2-A-</b> Perform practice-based improvement activities using a systematic methodology (share in audits and risk management activities and use logbooks).

### III-Program matrix Knowledge and Understanding

Course	Program covered ILOs							
	2/1/A	2/1/B	2/1/C	2/1/D	2/1/E	2/1/F	2/1/G	2/1/H
Course 1: Pathology	✓							
Course 2: Physiology & Biochemistry Microbiology& Mucology.	✓							
Course 3 : Internal medicine	✓	✓	✓	✓	✓	✓	✓	✓
Course 4: General surgery and Plastic surgery	✓	✓	✓	✓	✓	✓	✓	✓
Course5: Psychiatry	✓	✓	✓	✓	✓			
Course 6: Dermatology	✓	✓	✓	✓	✓	✓	✓	✓
Course 7: Venorology and Anderology.	✓	✓	✓	✓	✓	✓	✓	✓

## Intellectual

Course	Program covered ILOs			
	2/2/A	2/2/B	2/2/C	2/2/D
Course 1: Pathology	✓	✓		
Course 2: Physiology & biochemistry & microbiology & mycology	✓	✓		
Course 3 : Internal medicine	✓	✓	✓	✓
Course 4: General surgery and plastic surgery	✓	✓		
Course 5: Psychiatry	✓	✓		
Course 6: Dermatology	✓	✓	✓	✓
Course 7: Venereology and andrology	✓	✓	✓	✓

### Practical Skills (Patient Care)

Course	Program covered ILOs							
	2/3/1 /A	2/3/1 /B	2/3/1 /C	2/3/1 /D	2/3/1 /E	2/3/1 /F	2/3/1 /G	2/3/1 /H
Course 1: Pathology								
Course 2: Physiology & biochemistry & microbiology & mycology								
Course 3 : Internal medicine	✓	✓	✓				✓	
Course 4: General surgery and plastic surgery	✓	✓	✓				✓	
Course 5: Psychiatry	✓	✓	✓		✓		✓	
Course 6: Dermatology	✓	✓	✓	✓	✓	✓	✓	✓
Course 7: Venereology and andrology	✓	✓	✓	✓	✓	✓	✓	✓

## General Skills

Course	Program covered ILOs							
	2/3/2 /A	2/3/2 /B	2/3/2 /C	2/3/2 /D	2/3/2 /E	2/3/2 /F	2/3/2 /G	2/3/2 /H
Course 1: Pathology		✓		✓	✓		✓	✓
Course 2: Physiology & biochemistry & microbiology & mycology		✓		✓	✓		✓	✓
Course 3 : Internal medicine	✓	✓	✓	✓	✓	✓	✓	✓
Course 4: General surgery and plastic surgery		✓		✓	✓		✓	✓
Course 5: Psychiatry		✓		✓	✓		✓	✓
Course 6: Dermatology	✓	✓	✓	✓	✓	✓	✓	✓
Course 7: Venereology and andrology	✓	✓	✓	✓	✓	✓	✓	✓

## General Skills

Course	Program covered ILOs						
	2/3/2/I	2/3/2/J	2/3/2/K	2/3/2/L	2/3/2/M	2/3/2/N	2/3/2/O
Course 1: Pathology		✓		✓	✓		
Course 2: Physiology & biochemistry & microbiology & mycology		✓		✓	✓		
Course 3 : Internal medicine	✓	✓	✓	✓	✓	✓	✓
Course 4: General surgery and plastic surgery	✓	✓	✓	✓	✓	✓	✓
Course 5: Psychiatry		✓		✓	✓		
Course 6: Dermatology	✓	✓	✓	✓	✓	✓	✓
Course 7: Venereology and andrology	✓	✓	✓	✓	✓	✓	✓

# Annex 7, Additional information:

## Annex 7 Additional Information

### \* Staff members:

Dermatology, Venereology and Andrology Department			
Academic degree	Members	Mobile	Home Tel
Head of Department			
	Prof. Dr. Eman Riad Mohamed		
Dermatology, Venereology and Andrology Department			
Professor	Insaf Mohamed Abdel-Majid Khalil		
Professor	Alaa El-Din Hasan Abdel-Aal Hasan Mobasher		
Professor	Nagwa Issa Abdel-Azim Salim		
Professor	Azza Mahfouz Abdel-Majeed Fahmy		
Professor	Hatem Zidan Mohamed Abdel-Razek		
Professor	Mohamed Issam El-Din Mohamed Ali		
Professor	Eman Riad Mohamed Hanafy Othman		
Professor	Dalia Abdel-Aziz Ahmed Atallah		
Professor	Sahar Abdel-Moez Ahmed Ismail		
Professor	Ali Mohamed Abdel-Rahman Mahran		
Professor	Emad El-Din Kamal Ibrahim		
Professor	Emad Abdel-Rahim Taha Obeid		
Professor	Doaa Samir Sayed Mohamed Abdel-Kader		
Associate Professor	Fathia Ali Ibrahim		
Associate Professor	Hisham Zian		
Associate Professor	Iman Mohamed Kamal El-Sayed Yousef		
Associate Professor	Hisham Diab Gaber Diab		
Associate Professor	Amira Ali Abdel-mottaleb Hussein		
Associate Professor	Hanan Ahmed Morsy Abdel-Jalil		
Associate Professor	Sara Mohamed Ibrahim Ahmed Awad		
Associate Professor	Ayman Mohamed Mahran		
Associate Professor	Reham Maher Abdel-Gabr Abdel-Nasser		

<b>Associate Professor</b>	<b>Doaa Ahmed El-Sayed Abo Taleb</b>		
<b>Associate Professor</b>	<b>Radwa Mohammed Abdel-Moneim Bakr</b>		
<b>Associate Professor</b>	<b>Yasmin Mostafa Tawfik</b>		
<b>Associate Professor</b>	<b>Aya Yousef Badran</b>		
<b>Lecturer</b>	<b>Osama Mohamed Hasan</b>		
<b>Lecturer</b>	<b>Ahmed Abdel-Aal Abdel-Majid Abdel-Aal</b>		
<b>Lecturer</b>	<b>Howida Omar Towisy</b>		
<b>Lecturer</b>	<b>Rofaida Refaat</b>		
<b>Lecturer</b>	<b>Amr Alaa-Eldin Mobasher</b>		
<b>Lecturer</b>	<b>Marwa Mohammad Mekkawy</b>		
<b>Lecturer</b>	<b>Ahmed Mahmoud Abd Ellah</b>		
<b>Lecturer</b>	<b>Eman Fathy Ahmed</b>		
<b>Lecturer</b>	<b>Heba Hasan Sayed</b>		

Program Time Table <sup>\$</sup>																																					
Course/ Module Title/ILO s	1 <sup>st</sup> year												2 <sup>nd</sup> year												3 <sup>rd</sup> year												
	1 <sup>st</sup> 6 months						2 <sup>nd</sup> 6 months						1 <sup>st</sup> 6 months						2 <sup>nd</sup> 6 months						1 <sup>st</sup> 6 months						2 <sup>nd</sup> 6 months						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
Modules																																					
Basic Sciences ILOs																																					
Dermatology																																					
Andrology and Venereology																																					
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