



Faculty of Medicine
Quality Assurance Unit

Master (MSc) Degree Program and Courses
Specifications for Andrology , SEXOLOGY and Sexually
Transmitted Diseases

(According to currently applied Credit Point **by laws**)

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

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Master Degree of Andrology, Sexology and Sexually Transmitted Diseases

A. Basic Information

-  **Program Title:** Master degree of Andrology, Sexology and Sexually Transmitted Diseases.
-  **Nature of the program:** Single.
-  **Department (s) responsible:** Department of Dermatology, Venereology & Andrology - Faculty of Medicine- Assiut University
-  **Program Director:** Prof. Dr. Eman Riyad
-  **Coordinator (s):**
 - **Principle coordinator:** Dr. Ali Mahran
 - Assistants coordinator (s):** Prof. Dr. Emad Kamal
-  **Internal evaluators:** Prof Dr Hatem Zedan Mohammed, Assiut University
-  **External evaluator:** Prof Dr Ahmad Attia Awad, Cairo University.
Prof. Dr. Mohammad M Farid Rabea, Cairo University
-  **Date of approval of program specification by the Faculty of Medicine Council of Assiut University:** 18/3/2019.
-  **Date of most recent approval of program specification by the Faculty of Medicine Council of Assiut University:** 27-11-2022.
-  **Total number of courses:** 10courses.
 - First part :** 8 courses
 - Second part :** 1 course
 - Elective course :** one course.

B. Professional Information

1- Program aims

1/1. To Enable the candidates to keep with the international standards of patient care in andrology, sexology and Sexually Transmitted Diseases field by achieving high levels of:

- a- Clinical skills including Patient care skills.
- b- Simple surgical maneuvers related to andrology, sexology and Sexually Transmitted Diseases such as; skin and testicular biopsy.

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

1/3. To 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 Andrology, Sexology and Sexually Transmitted Diseases (STD) including Research methodology and Statistics ,Ethics in scientific research, Medical Microbiology and Immunology, Anatomy and Embryology and Clinical Pathology related to **Andrology, Sexology and STDs**

B- Mention essential facts and principles of clinically supportive science including General Surgery, Psychiatry related to andrology, sexology and Psychosexual Disorders and Internal Medicine which are appropriate to the following areas of **Andrology, Sexology and STDs**

C-Demonstrate sufficient knowledge of etiology, clinical picture, diagnosis, prevention and treatment for diseases or situations related to Andrology, Sexology and STDs

D- Give the recent and update developments in the pathogenesis, diagnosis, prevention and treatment of common diseases related to Andrology, Sexology and STDs

E- Mention the basic ethical and medicolegal principles relevant to Andrology, Sexology and STDs

F- Mention the basics of quality assurance to ensure good clinical care in the field of Andrology, Sexology and STDs

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

H- State the impact of common health problems in the field of Andrology, Sexology and STDs 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 **Andrology, Sexology and STDs**
- B. Demonstrate an investigatory and analytic thinking approach (problem solving) to common clinical situations related to **Andrology, Sexology and STDs**
- C. Design and present case for common problem related to **Andrology, Sexology and STDs**
- D. Formulate management plans and alternative decisions in different situations in the field of the **Andrology, Sexology and STDs**.

2/3 Skills

2/3/1 Practical 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 **Andrology, Sexology and STDs**.
- C. Carry out patient management plans for common conditions related to **Andrology, Sexology and STDs**
- D. Use information technology to support patient care decisions and patient education in common clinical situations related to **Andrology, Sexology and STDs**
- E. Perform competently non invasive and invasive procedures considered essential for the **Andrology, Sexology and STDs**.
- F. Provide health care services aimed at preventing health problems related to **Andrology, Sexology and STDs**.
- G. Provide patient-focused care in common conditions related to **Andrology, Sexology and STDs**, 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 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 use logbooks).
- B. Appraises evidence from scientific studies.
- C. Conduct epidemiological Studies and surveys.
- D. Perform data management including data entry and analysis.
- E. Facilitate learning of students and other health care professionals.

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.
- 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 Andrology, Sexology and Sexually Transmitted Diseases(STDs)**

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)

- a- ACGME (Accreditation Council for Graduate Medical Education).
- b- Area of andrology and reproductive medicine: (The curriculum offered by the European Academy of Andrology, EAA) .
[https://www.andrologyacademy.net/#:~:text=The%20European%20Academy%20of%20Andrology%20\(EAA\)%20is%20an%20association%20of,the%20area%20of%20male%20health.](https://www.andrologyacademy.net/#:~:text=The%20European%20Academy%20of%20Andrology%20(EAA)%20is%20an%20association%20of,the%20area%20of%20male%20health.)
- c- Area of Sexual medicine: (The program offered by the International society of Sexual Medicine).
- d- Area of STDs: (Specialty training curriculum For genito-urinary medicine, Joint Royal Colleges of Physicians Training Board UK).
- e- The program also matches the degree of Andrology offered by German Federal Medical Board (Facharzt Andrologie).
- f- The Master Degree of Andrology offered by T Andrology Department, Faculty of Medicine, Suez canal university.
- g- The Master Degree of Andrology offered by Andrology Department, Faculty of Medicine, Cairo University.

5. Program Structure and Contents

A. Duration of program 3-5 years

B. Structure of the program:

Didactic **40 CP** (25%), practical **120 CP** (75%). Total **160 CP** (100%)

First part

Didactic **16 CP** (40%), practical **24 CP** (60 %). Total **40CP** (100 %).

Second part

Didactic **24 (20 %)** practical **96 (80 %)**. Total **120CP** (100%)

Research **20 points**

According the currently applied by laws:

Compulsory courses: **98.75%**

Optional courses: **- 0**

Elective courses: **1.25%.**

	Points	% from total
▪ Basic courses	19	11.87
▪ Humanity and social courses	2	1.25%
▪ Specialized courses	134	83.75
▪ Others (Computer, ...)	2	1.25
▪ Field training	120	75

C. Program Time Table**a. Duration of program 3 -5 years divided into**○ **Part 1: (One year)**

Program-related basic courses (one year)

Students are allowed to sit the exams of these courses after 12 months

From applying to the master degree.

One elective course can be set during either the 1st or 2nd 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 (Two years)**

Program –related specialized science 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 exams of each course and 60% of summation of the written exams, oral and clinical exams of each course

Total degrees 1900 marks.

700 marks for first part

1200 for second part

Written exam 40% - 70%.

Clinical and oral exams 30% - 60%.

D. Curriculum Structure: (Courses / Modules/ units/ rotations):

 Courses of the program:

Courses	Course Code	Core Credit points		
		Lectures(didactics)	training	total
First Part				
Academic basic Courses (6 CP)				
1) Course 1: Research methodology and Statistics	AVS209	1	-	1
2) Course 2: Ethics in scientific research	AVS210	1	-	1
3) Course 3: Medical Microbiology and Immunology	AVS207	2	-	2
4) Course 4: Anatomy and Embryology	AVS201	2	-	2
5) Course 5: Clinical Pathology	AVS231	2	-	2
General clinical courses (8 CP)				
Course 6: General Surgery	AVS211	4	5	9
Course 7: Psychiatry related to andrology, sexology and Psychosexual disorders.	AVS220	1	1	2
Course 8: Internal Medicine	AVS218	1	4	5
Elective courses*	2CP			
- Elective course		2	-	2
Course 6: General Surgery	AVS211		5	5
Course 7: Psychiatry related to andrology, sexology and Psychosexual disorders.	AVS220		1	1
Course 8: Internal Medicine	AVS218		4	4
Specialized Clinical Work (14 CP)	AVS221		14	14
Course 9: Andrology, Sexology and sexually transmitted diseases(STDs).				
Thesis	20 CP			

Second Part	Specialized courses 24 CP Specialized Clinical Work (log Book) 96 CP			
Specialized Courses (24 CP) Course9;Andrology, Sexology and sexually transmitted diseases (STDs) Unit1: Male reproductive Medicine and Surgery. Unit 2: Sexual Medicine and Surgery Unit 3: Sexually Transmitted Diseases (STDs) Unit 4: Assistance Reproduction. Unit 5: Andrology Related Disorders	AVS221	<u>24CP</u>	96	120
Specialized Clinical Work (96 CP)			96	
Total	180			

* Elective courses can be taken during either the 1st or 2nd 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#:

- Scientific Writing.
- Communication Skill
- Infection Control
- Critical Appraisal
- Evidence based medicine.
- Quality assurance of medical education.

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.

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. Below is the model for this specification (for details see Annex 1)

7-Admission requirements

Admission Requirements (prerequisites) if any :

I. General Requirements:

- a) MBBCh Degree from 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)

Specific Requirements:

- Fluent in English (study language)





VACATIONS AND STUDY LEAVE

The current departmental policy is to release resident from their clinical duties for 15-21 days prior to the scheduled date for the first and final certifying Master Degree examination

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 logbook(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 (Total 100%)

Courses	Course code	Degrees			
		Written Exam	Oral Exam	Practical /Clinical Exam	Total
First Part		700			
Essential Courses:					
Course 1: Research methodology and Statistics & Course 2: Ethics in scientific research (time: 2hours)	AVS209 & AVS210	35 & 35	15 & 15	- -	50 & 50
Course 3: Medical Microbiology and Immunology& Course 5: Clinical pathology (time: 3hours)	AVS207 & AVS231	60 & 60	40 & 40	- -	100 & 100
Course 4: Anatomy and Embryology (time: 2hours)	AVS201	60	40	-	100
Course 6: General surgery (time: 3hours)	AVS211	120	40	40	200
Course7: Psychiatry related to andrology, sexology and Psychosexual Disorders (time: 1hour)	AVS220	30	20	-	50
Course 8: Internal Medicine (time: 1hour)	AVS218	25	10	15	50
Scientific Activities (log book)					
Second Part		1200			
Specialized Courses: Course9; Andrology , Venorology , sexology and	AVS221	600 4 papers (12hours) ; each paper 3 hours	300	300	1200

Sexually transmitted diseases					
Paper 1;Unit 1&4 : - Male reproductive Medicine and Surgery&(Assistance Reproduction (time: 3hours)		160			
Paper2; unit 2:Sexual Medicine and Surgery(time: 3hours)		160			300
Paper 3;Unit3: sexually transmitted diseases(STDs)(Time 3 hours)		160			300
Paper 4;Unit 5 : - Andrology Related Disorders)(Time 3 hours)		120			200
Total	12 h	600	300	300	1200
Scientific Activities (log Book)			25% oral marks		
Elective course	1h	50			50

§ The Total mark of the first part is 700 mark

Total degrees 1900 marks.

700 marks for first part

1200 for second part

Examination system:

• First part:

- Written exam (2 hours in time)in Course 1: Research methodology and Statistics & Course 2: Ethics in scientific research + Oral exam
- Written exam(3 hours in time) in Course 3: Medical Microbiology and Immunology& Course 5: Clinical pathology + Oral exam
- Written exam (2 hours in time) in Anatomy and embryology+ Oral exam.
- Written exam (3 hours in time) in General surgery + Oral exam+ Clinical exam.
- Written exam (1 hour in time) in Psychiatry related to andrology, sexology and Psychosexual Disorders +oral exam
- Written exam (3 hours in time) internal medicine + Oral exam+ Clinical exam.

➤ Second part:

- Written exam four papers in 5 units as each paper(3 hours in time) + Oral exam+ Clinical 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)

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

4- Stakeholders of gradu  : 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.

11-Declaration

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
Program Principle Coordinator:	Dr. Ali Mahran		
Head of the Responsible Department (Program Academic Director):	Prof. Dr. Eman Riyad		

Annex 1, Specifications for Courses / Modules

First Part

Basic Science Courses

Course 1: Research methodology and Statistics

- Name of department: *Dermatology, venorology and Andrology*
- Faculty of medicine
- Assiut University
- 2019-2020/2020-2021

1. Course data

- Course Title: : Research methodology and Statistics.
- Course code: AVS209
- Speciality Andrology, venorology and sexual transmitted diseases.
- Number of Credit points: Didactic 0.CP(50%) practical 0.5(50%)CP.total 1 CP (100%)
- Department (s) delivering the course: *Dermatology, venorology and Andrology*
- Coordinator (s):According to approval of Department council in conjunction with public health department
- Date last reviewed: February 2019
- General requirements (prerequisites) if any :
- General Requirements:
- MBChB from any Egyptian Faculty of medicine
- Equivalent degree from medical schools abroad approved by the ministry of higher education
- Regulatory role of post graduate studies of Assiut Faculty of Medicine

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

2. Course Aims

2/1-The candidate acquires the basics of medical biostatistics and epidemiological methods necessary for reasoning and management of common problems related to andrology, sexology and sexual transmitted diseases.

3. Course intended learning outcomes (ILOs):

A- Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
A- Define the following in biostatistics and research methods in Medicine: <ul style="list-style-type: none"> • Variables, their types and the scales of measurements. • Descriptive statistics for different types of variables. • Sampling and its techniques. • Mortality, morbidity and fertility measures. • screening, sensitivity ,specificity, predictive values, reliability and yield of screening test • Incidence, prevalence, risk, relative risk and odds ratio 	lectures seminar	written exam tasks logbook assignments oral exam
B-Describe the following in biostatistics and research methods: <ul style="list-style-type: none"> • Population and its relation to sample. • study design, uses, and limitations 	lectures seminar	written exam tasks logbook assignments oral exam
C-List the following: <ul style="list-style-type: none"> • Types of study designs. • Types of samples • - Examples of different types of variables 	lectures seminar	written exam tasks assignments oral exam

D. Explain the following: <ul style="list-style-type: none"> ○ Value of screening tests, sensitivity, specificity, and predictive values. ○ Rationale for Statistics in Medicine. ○ Impact of population growth on development and health issues. ○ Rationale for selecting certain study design and sampling technique. 	lectures seminar	written exam tasks logbook assignments oral exam
E. State updated and evidence based Knowledge of : <ul style="list-style-type: none"> - Statistical analysis - Study design applied 	lectures seminar	written exam tasks logbook assignments oral exam
F. Mention the basic ethics for conducting a research and medicolegal principles relevant to data confidentiality.	lectures seminar	written exam tasks logbook assignments oral exam
Mention the basics of quality control in conducting researches	lectures seminar	written exam tasks logbook assignments oral exam

B- Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Analyze and interpret given data related to common health problems using Biostatistics and research methods.	lectures seminar	written exam tasks logbook assignments oral exam
B. Demonstrate an investigatory and analytic thinking (problem solving) in common clinical situations related to biostatics and research methods in Andrology, sexology and sexual transmitted diseases.	lectures seminar	written exam tasks logbook assignments oral exam
C. Design research and present study data , in seminars	lectures seminar	written exam tasks logbook assignments oral exam
D-Formulate management plans and alternative decisions in different situations in the field of the biostatics and research methods in Andrology, sexology and sexual transmitted diseases.	lectures seminar	written exam <ul style="list-style-type: none"> • tasks • logbook assignments • oral exam
E- Discuss the impact of population growth on development and health issues related to Andrology, sexology and sexual transmitted diseases..	lectures seminar	written exam tasks logbook assignments

		oral exam
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C- Practical skills (Patient Care)

ILOs	Methods of teaching/ learning	Methods of Evaluation
A-Examine data using statistical test of the following: Different types of variables. - Frequency distribution to a given data and its interpretation	lectures seminar	<i>written exam</i> <i>tasks</i> <i>logbook</i> <i>assignments</i> oral exam
B-Interpret the following: results of significant statistical tests - different mortality, morbidity and fertility measures	lectures seminar	<i>written exam</i> <i>tasks</i> <i>logbook</i> <i>assignments</i> oral exam
C-Conduct epidemiological Studies and surveys	lectures seminar	<i>written exam</i> <i>tasks</i> <i>logbook</i> <i>assignments</i> oral exam
D-Measure disease risk factors	lectures seminar	<i>written exam</i> <i>tasks</i> <i>logbook</i> <i>assignments</i> oral exam
E-Compute fertility , mortality and morbidity rates	lectures seminar	<i>written exam</i> <i>tasks</i> <i>logbook</i> <i>assignments</i> oral exam
F-Calculate and interpret sensitivity, specificity, and predictive values of a screening test	lectures seminar	<i>written exam</i> <i>tasks</i> <i>logbook</i> <i>assignments</i> oral exam

G- Design suitable research study.	lectures seminar	<i>written exam</i> <i>tasks</i> <i>logbook</i> <i>assignments</i> oral exam
H-Managing data collection team	lectures seminar	<i>written exam</i> <i>tasks</i> <i>logbook</i> <i>assignments</i> oral exam
I-Summarize and present data.	lectures seminar	<i>written exam</i> <i>tasks</i> <i>logbook</i> <i>assignments</i> oral exam
J-Use information technology to support data management	lectures seminar	<i>written exam</i> <i>tasks</i> <i>logbook</i> <i>assignments</i> oral exam

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, critical appraisal)	- Lectures -Practical sessions - Discussion - Readings - Community campaign	critical appraisal
B- Appraise evidence from scientific studies(journal club)	- Lectures -Practical sessions - Discussion - Readings - Community campaign	critical appraisal
C- Conduct epidemiological Studies and surveys.	- Lectures -Practical sessions - Discussion - Readings - Community campaign	attendance and participation
D- Perform data management including data entry and analysis.	Summer field work. participation in projects	attendance and participation
E- Facilitate training of junior students and other health care professionals.	Summer field work. participation in projects	attendance and participation

Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
F- Maintain ethically sound relationship with community members.	- Lectures -Practical sessions - Discussion - Readings - Community campaign	Written exams Oral exams Practical exams
G- Provide information using effective nonverbal, explanatory, questioning, and writing skills.	- Lectures -Practical sessions - Discussion	Written exams Oral exams

	<ul style="list-style-type: none"> - Readings - Community campaign 	Practical exams
H- Work effectively with others as a member of a health care team or other professional group.	<ul style="list-style-type: none"> - Lectures - Practical sessions - Discussion - Readings - Community campaign 	Written exams Oral exams Practical exams
I- Present results of researches in seminars	<ul style="list-style-type: none"> - Lectures - Practical sessions - Discussion - Readings - Community campaign 	Written exams Oral exams Practical exams
J- Write a report on summer field work	<ul style="list-style-type: none"> - Lectures - Practical sessions - Discussion - Readings - Community campaign 	Written exams Oral exams Practical exams

Professionalism

ILOs	Methods of teaching/ learning	Methods of Evaluation
K- Demonstrate respect, compassion, and integrity to the needs of society	<ul style="list-style-type: none"> - Lectures - Practical sessions - Discussion - Readings - Community campaign 	Written exams Oral exams Practical exams
L- Demonstrate a commitment to ethical principles including confidentiality of participants' information and informed consent	<ul style="list-style-type: none"> - Lectures - Practical sessions - Discussion - Readings - Community campaign 	Written exams Oral exams Practical exams
M- Demonstrate sensitivity and responsiveness to population culture, age, gender, and disabilities	<ul style="list-style-type: none"> - Lectures - Practical sessions - Discussion - Readings - Community campaign 	Written exams Oral exams Practical exams

Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
N- Perform data management including data entry and analysis.	-Observation and supervision -Written and oral communication	Log book

Course Matrix

Time Schedule: First Part

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skills	General Skills
introduction to statistics	A	A	A-C	A
basic statistical concepts	B-E	A,B	A-D,F,J	A
presentation of data	A-C	B,C	A-D,G,H	A
measures of central tendency	A-C	C,D	A,C,J	B-G,L-N
measures of dispersion	A-C	A-E	B,C	B,C,L-M
significance tests for quantitative variables	E-G	B-D	F,G,H	C,D,F-L
significance tests for qualitative variables	E-G	B-D	A-C	B-G,L-N
Correlation	E-G	A-E	A-D	A,F,F-L
introduction to epidemiologic methods	A-C	A-C	B,C	A,B,C,F-I
sources of data and data collection	A-C	A-E	A-D	B-G,L-N
sampling techniques	C-F	A,B	B,C	A,F,L-N
sample size calculation	C-F	A-E	C-J	B-G,L-N
study design	C-G		A,C-J	A,B,C,H-L
Screening	C-G	A-E	B,F-J	A,D,H,L,N
introduction to statistics	A	A	A-C	A
basic statistical concepts	B-E	A,B	A-D,F,J	A
presentation of data	A-C	B,C	A-D,G,H	A
measures of central tendency	A-C	C,D	A,C,J	B-G,L-N
measures of dispersion	A-C	A-E	B,C	B,C,L-M
significance tests for quantitative variables	E-G	B-D	F,G,H	C,D,F-L
significance tests for qualitative variables	E-G	B-D	A-C	B-G,L-N
Correlation	E-G	A-E	A-D	A,F,F-L
introduction to epidemiologic methods	A-C	A-C	B,C	A,B,C,F-I
sources of data and data collection	A-C	A-E	A-D	B-G,L-N
sampling techniques	C-F	A,B	B,C	A,F,L-N

5. Course Methods of teaching/learning:

- Lectures , seminars
- Practical sessions
- Discussion
- Readings
- Community campaign
- Observation and supervision
- Written and oral communication
- participation in projects

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

More;

1. Lectures , seminars
2. -Practical sessions
3. - Discussion
4. - Readings
5. - Community campaign
6. Observation and supervision
7. Written and oral communication
8. Participation in projects

7. Course assessment methods:

i. Assessment tools: written exam

Oral exam

Logbook

Quizzes

ii. Time schedule:- 1st part

iii. Marks: written: 35

Oral: 15

- Total: 50

8. List of references

i. Lectures notes

ii. Essential books

- Maxcy-Rosenau (2010): Public health and preventive medicine, Prentice- Hall International Inc. 15th edition
- Park K. (2007) eighteenth edition: Environment and Health at Park's textbook of preventive and social medicine. Ms Banarsidas Bhanot, ., India.
- R. Beaglehole , R.Bonita and T Kjellström (2006): Basic Epidemiology .

iii. Recommended books

- Dimensions of Community Health, Boston Burr Ridge Dubuque, short Textbook of preventive and social Medicine 2012.
- Epidemiology in medical practice, 5th edition. Churchill Livingstone. New York, London and Tokyo 2003.

iv. Periodicals, Web sites, ... etc

- International Journal of epidemiology
- ECMA periodicals
- www. Who. Int
- www.cdc.org
- www. BMJ.com
- www. JAMA.com

v. Others

other relevant books and web sites

9. Signatures

Course Coordinator:	Head of the Department:
Date:	Date:

Course 2: Ethics in scientific research

Name of department:

Dermatology ,venorology & Andrology

Faculty of medicine

Assiut University

2019-2020/2020-2021

1. Course data

- Course Title: - Ethics in scientific research
- Course code: AVS210
- Speciality: Andrology, sexology and sexual transmitted disease.
- Number of credit points: 1 credit point
- Department (s) delivering the course: Andrology, sexology and sexual transmitted disease in conjunction with forensic medicine and toxicology departments.
- Course coordinator: according to departmental council approval
- Date last reviewed: 2019.
- Requirements (prerequisites) if any :
- . Requirements from the students to achieve course ILOs are clarified in the joining log book.

2. Course Aims

2/1-To describe the basic ethical and medicolegal principles and bylaws relevant to practice in the field of Andrology , sexology and sexual transmitted diseases

3. Intended learning outcomes (ILOs):

A knowledge and understanding

Competency and Skills	Methods of teaching/ learning	Methods of Evaluation
A. Mention principals of Taking consent either before procedure or clinical trials .	Lecture and discussion	Oral &Written exam
B. Mention principals of Writing a reviewer medical report	Lecture and discussion	Oral &Written exam
C. Mention principals of medical ethics.	Lecture and discussion	Oral &Written exam
D. Mention principals of writing research or project reports.	Lecture and discussion	Oral &Written exam
E. Explain principals of medical and case reports.	Lecture and discussion	Oral &Written exam

B. intellectual

Competency and Skills	Methods of teaching/ learning	Methods of Evaluation
A. Present case , seminars in consent	Lecture and discussion	Oral &Written exam
B. Present case, seminars in research ethics	Lecture and discussion	Oral &Written exam

C. Practical skills

Competency and Skills	Methods of teaching/ learning	Methods of Evaluation
A. Identify medical ethics and ethics in research.	Lecture and discussion	Reading Discussion
B. Prepare and write consent.	Lecture and discussion	Reading Discussion
C. Identify medical responsibilities.	Lecture and discussion	Reading Discussion
D. Write certificate.	Lecture and discussion	Reading Discussion and active participation
E. Deal with a case of Suspicious in practice	Lecture and discussion	Reading Discussion and active participation
F. Write medical research reports	Lecture and discussion	Reading Discussion and active participation

D general skills

Competency and Skills	Methods of teaching/ learning	Methods of Evaluation
A. Present a case.	Lecture and discussion	Global rating logbook
B. Write a consultation note	Lecture and discussion	Global rating logbook
C. Inform patients and maintaining comprehensive.	Lecture and discussion	Global rating logbook
D. Make timely and legible medical records	Lecture and discussion	Global rating logbook
E. Acquire the teamwork skills	Lecture and discussion	Global rating logbook

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

Time Schedule: First Part

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skills	General
	A	B	C	D
1. Consent.	B,C	A	D,E	A
2. Medical Reports	A	B	G	A,D,E
3. Ethics in research.	A	A	A	-
4. Medical ethics.	E	B	A,B,C	B,C,E

5. Course Methods of teaching/learning:

1. Lectures.
2. Discussions.
3. Exercises.

6. Course assessment methods:

i. Assessment tools:

1. Written examination.
2. Attendance and active participation.
3. Oral examination.

ii. Time schedule First part.

iii. Marks: 50 (35 for written exam and 15 for oral exam).

7. List of references

i. Lectures notes

- Course notes.
- Staff members print out of lectures and/or CD copies.

ii. Essential books

- Ballantyne B., Marrs T. and Syversen T.(1999):General and Applied Toxicology.2nd edition. MACMILLAN REFERENCE LTD.UK.
- Bernard Knight and Pekka Saukko (2004): Knight Forensic Pathology. Hodder Arnold press

iii. Recommended books

- Klassen D. (2001): Casarett and Doull's Toxicology the basic science of poisons. McGraw. Hill press medical publishing division New York

iv. Journal and web site

- Journals of all Egyptian Universities of Forensic Medicine and Clinical Toxicology.
- All International Journals of Forensic Medicine and Clinical Toxicology which available in the university network at www.sciencedirect.com. As :








Forensic Science International Journal.

8. Signatures

- Course Coordinator: Prof.	- Head of the Department: Prof.
Date:	Date:

Course 3 :Medical Microbiology and Immunology

I. Module data

-  **Course Title: Medical Microbiology and Immunology Course code: course code: AVS207**
-  **Specialty :** Andrology, Sexology and STDs
-  **Number of points: Didactics 1.2CP(60%), practical 0.8CP(40%). Total 2 CP**
-  **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 Department of Dermatology, Venereology and Andrology as annually approved by both departments councils.
-  **Date last reviewed: 2/2019**
-  **Requirements (prerequisites) if any :**
None

2. Course Aims

Provide the basic facts of **Microbiology and Immunology** that are necessary and appropriate for clinical reasoning of situations related to Andrology, Sexology and STDs

3. Course intended learning outcomes (ILOs):

A) Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Describe the Microbiological and immunological principles related to Andrology, Sexology and STDs diseases including: <ul style="list-style-type: none">Protective functions of the immune system and its role in the pathophysiology of male genital infections.	Lectures Didactics	Written and oral examination Logbook

<ul style="list-style-type: none"> • The essential knowledge of bacteriology, virology and mycology and its applications in the andrology and venereology field. • Demonstration of conceptual awareness of male genital infections, their microbial causes, clinical presentation, laboratory diagnosis, prevention and treatment. • Awareness with the principles of sterilization and infection control. 		
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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 Andrology, Sexology and STDs	Didactic (lectures, seminars, tutorial)	-Written and oral examination -Logbook
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches for laboratory diagnosis of common situations in 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

Competency and Skills	Methods of teaching/ learning	Methods of Evaluation
A-List the causative microorganisms, pathogenesis, and microbiological diagnosis of the following clinical conditions: <ul style="list-style-type: none"> • Male genital tract infections • Sexually-transmitted infections. • Genital warts. B-Identify the types, causative microorganisms, risk factors and preventive measures of nosocomial infections. C-Use the microscope. D-Demonstrate different types of conventional culture media. E-Apply staining techniques of bacteria and fungi.	Lectures And training (laboratory work)	Written and oral examination Logbook

F-Identify the morphological and cultural characters of bacteria and fungi.		
G-Interpret biochemical test for identification of bacteria and fungi.		
H- Interpret antibiotic susceptibility testing.		

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

**4. contents (topic s/modules/rotation
Course 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-H	A-H
Staphylococci, Streptococci, and Enterococci	A	A-D	A-H	A-E
Clostridia and other Gram positive bacilli (Corynebacteria, Listeria, bacillus group, and Actinomycosis)	A	A-D	A-H	A-E
Nisseria, Porvobacteria (Haemophilus, Bordetella, Brucella, Legionella, Yersinia, Pasteurella)	A	A-D	A-H	A-E
Enterobacteriaceae	A	A-D	A-H	A-E
Pseudomonas, Vibrios, Campylobacter, Helicobacter Gram negative anaerobic bacteria	A	A-D	A-H	A-E
Spirochetes, Mycobacteria, Chlamydia, Mycoplasma,	A	A-D	A-H	A-E
Basic mycology: classification and antifungal agents	A	A-D	H-A	A-E
Basic virology, major virus group	C	A-D	A-H	A-E
Basic immunology: immune response (tissues and cells, types)	B	A-D	H-A	A-E
Humoral immunity, Immunoglobulins, Complement, Ag-Ab reactions)	B	A-D	A-H	A-E
Cell mediated immunity, Cytokines, Immunity to bacterial infections and immunoprophylaxis	B	A-D	H-A	A-E
Autoimmunity and tumor immunology	B,C	A-D	A-H	A-E
Immunodeficiency and infections in immunocompromised host	B	A-D	H-A	A-H
Sterilization and disinfection	A	A-D	A-H	A-H
Sexually transmitted infections	A	A-D	H-A	A-H
Skin and soft tissue infections	A,C	A-D	A-H	A-H

5 Module Methods of teaching/learning:

- i. Lectures
- ii. Laboratory work

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

- Lectures
- Laboratory work

7- Assessment methods:

i. Assessment tools:

- Written and oral examination 33.3 degree for each
- Logbook

ii. Time schedule: at the end of 1st part.

iii. Marks =100(60 written +40 oral)

8-List of references:

- Jawetz, Melnick, and Adelberg's Medical Microbiology. Geo F. Brook, Janet S. Butel, Stephen A. Morse (eds).
- Medical Microbiology, A short course. Ellen J. Baron, Robert SC, Dexte HH, James NM, Jerrold AT (eds). Wilsey-Liss.
- Microbiology, a clinical approach. Anthony S, Jennifer S, Danielle MS (eds). Garland science.
- PowerPoint version of the lecture uploaded on the Facebook page of Microbiology and Immunology Department, Faculty of Medicine, Suez Canal University.
- Hand-outs prepared by microbiology staff members in the department.
- Web sites:

asmnews@asmusa.org

<http://www.microbelibrary.org>









www.pubmed.com

9. Signatures

Course Coordinator:	Head of the Department:
Date:	Date:

Course 4: Anatomy and Embryology

I. Course data

-  **Course Title:** Anatomy and embryology.
-  **Course code:** AVS201
-  **Specialty :** Andrology, Sexology and STDs
-  **Number of points:** Didactics 1(50%), practical 1CP (50%); total 2 CP.
-  **Department (s) delivering the course:** Anatomy Department in conjunction with Department of Dermatology, Venereology and Andrology as annually approved by both departments councils.
-  **Coordinators :** Staff members of Anatomy Department in conjunction with Department of Dermatology, Venereology and Andrology as annually approved by both departments councils..
-  **Date last reviewed:** --2/2019
-  **Requirements (prerequisites) if any :**
None

2. Course Aims

2/1-Provide the basic facts of Anatomy and embryology that are necessary for clinical reasoning in Andrology, Sexology and STDs

3. intended learning outcomes (ILOs):

A- Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
<p>A. Describe the Anatomy principles related to Andrology, Sexology and STDs diseases including:</p> <ul style="list-style-type: none"> - Embryology of male reproductive organs -Anatomy of male reproductive and sex organs - Anatomy of male pelvis. <p>B..Explain the embryology and anatomy of internal and external male genital organs.</p> <p>C. Illustrate the following :</p> <ul style="list-style-type: none"> - the anatomy of male genital organs to outline the diagnosis, treatment, prevention and control of andrological diseases. - the impact of embryology and anatomy . 	<p>Lectures Didactics</p>	<p>Written and oral examination</p> <p>Logbook</p>

B- Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
<p>A. Correlates the facts of anatomy with clinical reasoning, diagnosis and management of common diseases related to Andrology, Sexology and STDs</p> <p>B. Demonstrate an investigatory and analytic thinking (problem solving) approaches for diagnosis of common andrological or venereal diseases and select the most appropriate and cost-effective tool leading to the identification of the cause.</p> <p>C- Report and appraise a concise scientific activity according to standard scientific thinking and integrity.</p>	<p>Didactic (lectures, seminars, tutorial)</p>	<p>-Written and oral examination</p> <p>-Logbook</p>

C- Practical Skills

Competency and Skills	Methods of teaching/ learning	Methods of Evaluation
A. Master the basic skills related to the following : Anatomy of male reproductive organs. - Identification of different anatomical details of male pelvic organs.	Lectures And training (laboratory work)	Written and oral examination Logbook

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

4.Contents (topic s/modules/rotation Course Matrix

Time Schedule: First Part

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
Embryology of internal male genital organs	A	A-D	-	A-E
Embryology of external male genital organs	A	A-D	A	A-E
Anatomy of internal male genital organs	A	A-D	A	A-H
Anatomy of external male genital organs)	A	A-D	A	A-H
Anatomy of the male pelvis	A	A-D	A	A-E
Anatomy of the anterior abdominal wall	A	A-D	A	A-H

5-Methods of teaching/learning:

- Lectures
- Laboratory work

6- Methods of teaching/learning: for students of limited abilities

- Lectures
- Laboratory work

7- Assessment methods:

i. Assessment tools:

- Written and oral examination
- Logbook

ii. Time schedule: at the end of 1st part.

iii. Marks = 100(60 Written+40 oral)

8- List of references:

Course Notes

Essential book:

Cunningham's Textbook of Anatomy

Recommended textbook:

Grey's Textbook of Anatomy









Periodicals, Web Sites, www.pubmed.com

9. Signatures

Course Coordinator	
Course Coordinator:	Head of the Department:
Date:	Date:

Course 5: Clinical pathology

I. Course data

-  **Course Title:** Clinical pathology
-  **Course code:** AVS231
-  **Specialty:** Andrology, Sexology and STDs
-  **Number of points:** Didactics 1.2CP(60%), practical 0.8CP(40%); total 2 CP(100%).
-  **Department (s) delivering the course:** clinical pathology department in conjunction with Department of Andrology, Sexology and STDs as annually approved by both departments councils.
-  **Coordinators:** Staff members of clinical pathology department in conjunction with Department of Andrology, Sexology and STDs as annually approved by both departments councils.
-  **Date last reviewed:** 2/2019
-  **Requirements (prerequisites) if any:**
None

2. Course Aims

2/1-Provide the basic facts of **clinical pathology** that are necessary for clinical reasoning of common situations in Andrology, Sexology and STDs

3. intended learning outcomes (ILOs):

A-Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
<u>A-Describe and explain different aspects and future perspectives of:</u> <ul style="list-style-type: none"> • Laboratory diagnosis of sexually transmitted diseases • (HIV , HSV, HBV, HPV, Chlamydia, gonorrhea, syphilis, and others) • Semen analysis • CASA • DNA fragmentation tests • Tests assessing sperms chromatin condensation • Endocrinal evaluation of male infertility • Genetic evaluation of male infertility • Post coital test • Diagnostic tests for Immunological male infertility • Tumour markers of prostatic and testicular markers. • Sertoli cells markers • PSA. • Markers of spermatogenesis. • Epididymal markers • Prostatic markers • Seminal vesicle markers • Testicular markers. 	Lectures Didactics	Written and oral examination Logbook

B-Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A-Apply conceptual approach for pathogenesis of common male genital infections.	Didactic (lectures, seminars, tutorial)	-Written and oral examination -Logbook
B-Formulate a systematic approach for microbiological diagnosis of common male genital infections.		

C- Practical Skills

Competency and Skills	Methods of teaching/ learning	Methods of Evaluation
A-Apply approach for evaluation of the following; <ul style="list-style-type: none"> • Semen analysis. • Identification how to do DNA fragmentation index. • Testicular markers evaluation. • Epididymal, prostatic and seminal vesicular markers evaluation 	Lectures And training (laboratory work)	Written and oral examination Logbook

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

4. Contents (topic s/modules/rotation Course Matrix

Time Schedule: First Part

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
Laboratory diagnosis of sexually transmitted diseases	A	A-D	A	A-H
Semen analysis interpretation	A	A-D	-A	A-H
DNA fragmentation tests interpretation	A	A-D	-A	A-H
Genetic infertility work-up	A	A-D	-A	A-H
Immunological infertility work-up	A	A-D	-A	A-H
Testicular and prostatic cancer markers	A	A-D	-A	A-H

5. Methods of teaching/learning:

- Lectures
- Seminars
- Didactic teaching.

5. Methods of teaching/learning: for students of limited abilities

- Lectures
- Seminars
- Didactic teaching

7- Assessment methods:

i. Assessment tools:

- Written and oral examination
- Logbook

ii. Time schedule: at the end of 1st part.

iii. Marks 100= 100(60 Written+40 oral)

8- List of references









Lecture notes

9. Signatures

Course Coordinator	Head of the Department:
Date:	Date:

Course 6: General Surgery

I. Course data

-  **Course Title:** General surgery
-  **Course Code** AVS211
-  **Specialty :** Andrology, Sexology and STDs
-  **Number of points:** Didactic 4CP(44.4 %), practical 5 CP(55.6%); total 9CP(100%)
-  **Department (s) delivering the course:** General surgery Department in conjunction with Department of Dermatology, Venereology and Andrology as annually approved by both departments councils.
-  **Coordinators:** Staff members of General surgery Department in conjunction with Staff members of Department of Dermatology, Venereology and Andrology as annually approved by both departments councils.
-  **Date last reviewed:** 2/2019
-  **Requirements (prerequisites) if any :**
None

2. Course Aims

2/1 Provide the candidate basics knowledge and clinical skills of general surgery related to Andrology, Sexology and STDs conditions .

3. Intended learning outcomes (ILOs):

A) Knowledge and understanding

ILOS	Methods of teaching/ learning	Methods of Evaluation
A-Describe the symptoms and sings of most common surgical conditions related to andrology diseases. <ul style="list-style-type: none"> • Shock, Hemorrhage, blood transfusion, antibiotics in surgery • Surgical infections, gas gangrene and tetanus • Soft tissue infections. • Diseases of lymph nodes • Undescended testis • Scrotal swellings • (hydrocele, varicocele, epididymis) • Hernia and testicular tumors • Congenital anomalies of the external genetalia 	Lectures And didactics	Written and oral examination Logbook

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 Andrology .	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 Andrology		
C. Design and present cases , seminars in common surgical Andrology problem		
D-Formulate management plans and alternative decisions in different surgical situations in the field of the Andrology		

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. D- Manage preoperative steps related to andrological procedures. E- Order appropriate investigations for surgically related andrological conditions. F- Manage efficiently with other colleagues in management of surgical elderly patient.	Lectures and training (clinical and log training) Lectures seminars, discussion with senior staff observation Clinical work	Written and oral examination Logbook

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)	Lectures	Logbook
B. Appraises evidence from scientific studies(journal club)		
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.	Observation -Senior staff experience	Logbook
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 different topics related to Andrology, Sexology and STDs		
K. Write a report in different topics related to Andrology, Sexology and STDs		
L. Counsel patients and families about different topics related to Andrology, Sexology and STDs		

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	Logbook
N. Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, business practices		
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	Logbook
Q. Practice cost-effective health care and resource allocation that does not compromise quality of care.		
R. Assist patients in dealing with system complexities.		

4.Contents (topic s/modules/rotation

Course Matrix

Time Schedule: First Part

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
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-R
Soft tissue infections.	A	A,B,D	A,B,F	A-E
Undescended Testis	A	A,B,D	A,B,F	A-E
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 genitalia	A	A-D	A-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. Logbook
- ii. Time schedule: 1st part
- iii. Marks: 200 marks(120 written+40 oral+40clinical)

8. List of references

8.1- Course Notes

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

- Bailey and Love's Short Practice of Surgery.
- RECOMMENDED BOOK
- Current Surgical Diagnosis and Treatment, 11th Edition.
- WEBSITE: www.Pubmed.com

9. Signatures

Course Coordinator:

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Date:









Head of the Department:

.....

Date:

Course 7: Psychiatry related to andrology, sexology and Psychosexual Disorders

I. Course data

-  **Course Title:** Psychiatry related to andrology, sexology and Psychosexual Disorders
-  **Course code:** AVS220
-  **Specialty :** Andrology, Sexology and STDs
-  **Number of points:** Didactics 1CP(50%), practical 1 CP(50%). Total 2CP(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, STDs and Andrology Department as annually approved by both departments councils
-  **Date last reviewed:** -3/2019
-  **Requirements (prerequisites) if any :**
None

2. Course Aims

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

2/2-Acquire the basics of psychological sexology facts that are necessary for andrology and sexology.

3. Intended learning outcomes (ILOs):

A) Knowledge and understanding

ILOS	Methods of teaching/ learning	Methods of Evaluation
<p>A. Describe the principles of psychology and sexology related to Andrology problems including the following:</p> <ul style="list-style-type: none"> • Psychology of sex • Disorders of sexual cycle • Paraphilias • Gender identity disorders <p>B- Illustrate the art of psychiatric concepts and condition related to andrology including the following:</p> <ul style="list-style-type: none"> • Introduction and classification in psychiatry • Introduction to management strategies in psychiatry • Interface between psychiatry and andrology • Common psychiatric conditions and their management. 	<p>Lectures Didactics discussion</p>	<p>Written and oral examination Logbook</p>

B) Intellectual outcomes

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

C) Practical Skills

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 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> <ul style="list-style-type: none"> ▪ Lectures. ▪ Tutorial. ▪ Discussion ▪ Observation ▪ CLINICAL CASE 	<p>Written and oral examination</p> <p>Logbook</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-H
Paraphilias	A	A	A-F	A-H
Gender identity disorders	A	A,B	-	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 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
- tutorial.
- discussion
- observation
- clinical case

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

- Lectures
- tutorial.
- discussion
- observation
- clinical case

7.Course assessment methods:

i. Assessment tools:

- Written and oral examination including practical skills assessment
- Logbook

ii. Time schedule: first part

iii. Marks: 50(30 written+20 oral) marks

8. List of references

Course Notes: lecture notes.

9. Signatures

Course Coordinator:

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Date:









Head of the Department:

.....

Date:

Course 8: Internal Medicine

I. Course data

-  **Course Title:** Internal Medicine
-  **Course code:** AVS218
-  **Specialty:** Andrology, Sexology and STDs
-  **Number of points:** Didactics 1(50%)CP, practical 1(50%)CP; total 2 CP(100%).
-  **Department (s) delivering the course:** Internal medicine Department in conjunction with Department Andrology, Sexology and STDs as annually approved by both departments councils.
-  **Coordinators:** Staff members Internal Medicine Department in conjunction with Department of Andrology, Sexology and STDs as annually approved by both departments councils.
-  **Date last reviewed:** 2/2019
-  **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 basic facts and clinical skills of internal medicine that are necessary for common situation management related to Andrology, Sexology and STDs

3. Intended learning outcomes (ILOs):

A- Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Describe the etiology, clinical picture, diagnosis and management of the following diseases and clinical conditions:- <ul style="list-style-type: none">• Approach to the Patient: i.e.History and Physical Examination• Hematopoiesis; Hematopoietic Growth Factors & The Peripheral Blood Smear	Lectures Didactics	Written and oral examination Logbook

<ul style="list-style-type: none"> • Immunosuppressing Drugs Including Corticosteroids • Antithrombotic Therapy • Principles of Genetics and the Inherited basis of common diseases • The Innate and the Adaptive Immune System • Prevention and Control of Health Care-Associated Infections • Diabetes mellitus • Arterial Hypertension • Atherosclerosis, Thrombosis, and Vascular Biology • Diseases of the Aorta & Atherosclerotic and other Peripheral Arterial Disease • Chronic Kidney Disease • Treatment of Irreversible Renal Failure • Hepatic Failure and Liver Transplantation • Approach to the Anemias • Disorders of Lipid Metabolism • Wilson Disease • Neuroendocrinology and the Neuroendocrine System • The Systemic Vasculitides • Approach to the Patient with Urinary Tract Infection • Tuberculosis • Autonomic Disorders and Their Management 		
<p>B. Mention the principles of management:</p> <p>-Organ failure (cardiac, hepatic, renal, respiratory)</p>		

-Systemic failure(shock) -Disorders of electrolytes and acid base balance -Cardiac arrhythmia Diabetes mellitus Neuropsychiatric aspects of aging		
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 Andrology		
E. Explain the facts and principles of the relevant basic and clinically supportive sciences of medical problem related to andrology		
F. Describe the basic ethical and medicolegal principles of medical problem relevant to the andrology		
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 andrology 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 medical diseases related to Andrology.	Clinical rounds Senior staff experience	Procedure/case presentation Logbook
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches to common clinical medical situations related to Andrology.		
C. Design and present cases , seminars in common medical Andrology problem		
D-Formulate management plans and alternative decisions in different medical situations in the field of the Andrology		

C- Practical Skills

Competency and Skills	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. 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

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

Time Schedule: First Part

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
Organ failure (cardiac,hepatic,renal,respiratory)	A-I	A-D	A-E	A-H
Systemic failure(shock)	A-I	A-D	A-E	A-H
Disorders of electrolytes and acid base balance	A-I	A-D	A-E	A-H
Diabetes mellitus	A-I	A-D	A-E	A-H
Infection in immunocompromized host/HIV	A-I	A-D	A-E	A-H
Altered hypothalamo-pituitary-gonadal axis	A-I	A-D	A-E	A-H
Pituitary hypo- and hyper function	A-I	A-D	A-D	A-H
Thyroid hypo- and hyperfunction	A-I	A-D	A-D	A-H

5 Methods of teaching/learning:

- Lectures
- Laboratory work

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

- Lectures
- Clinical work

7-Assessment methods:

i. Assessment tools:

- Written and oral examination
- Logbook

ii. Time schedule: at the end of 1st part.

iii. Marks 50 (25Written +10oral+15 clinical)exam

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 57th edition 2018

Cecil textbook of medicine 22nd edition

Recommended book

Harrison textbook of medicine 20th edition

8.3 Periodic website: www.Pubmed.com, www.freemedicaljournals.com

9. Signatures

Course Coordinator:

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Head of the Department:

.....







Date:

Date:

Second Part

Course 9: Andrology, Sexology and sexually transmitted disease (STDs)




1. Course data

-  **Course Title:** Andrology, Sexology and STDs
-  **Course code:** AVS221
-  **Speciality:** Andrology, Sexology and STDs
-  **Number of points:** Didactics 24CP, practical 110 CP. Total 134 CP.
-  **Department (s) delivering the course:** Department of Dermatology, venerology& Andrology- Faculty of Medicine- Asyut University- EGYPT
-  **The course is divided into 5 units:**

- Unit 1 Male reproductive Medicine and Surgery
- Unit 2 Sexual Medicine and Surgery
- Unit 3: Sexually transmitted diseases(STDs)
- Unit 4: Assistance Reproduction
- Unit 5: Andrology Related Disorders

Coordinator (s):



Principle coordinator	Assistant coordinator
Dr. Ali Mahran	Dr. Emad Kamal

-  **Date last reviewed:** -3/2019
-  **Date last reviewed By QAU:** 2019
-  **Admission Requirements (prerequisites) if any :** According to approved regulatory rules

II. General Requirements:




-none

III. Specific Requirements:

-  • Should have successfully completed basic medical training leading to MBBCh, or MB Ch from a recognized institution.
-  • Must be fully registered by the competent Authority, to practice Medicine in the Arab Republic of Egypt.

2. Course Aims

- 1) To Enable the candidates to keep with the international standards of patient care in Andrology, Sexology and STDs by achieving high levels of:


-  a- Clinical skills.
-  b- Patient care skills.
-  c- Surgical maneuvers and skills.

- 2) To introduce the candidates to the basics of scientific research.
- 3) Enable them to start professional careers as specialists in Egypt.
- 4) Make them recognized as specialists abroad.
- 5) Enable them to pursue higher studies and degrees.
- 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):

Course 9: Unit 1; Male reproductive Medicine and Surgery (Andrology/ male Infertility)

A- Knowledge and understanding

ILOs Use one verb for each sentence like AA WRITE JUST TITLE OF TOPICS UNDER THE TITLE OF SENTENCE	Methods of teaching/ learning	Methods of Evaluation
 A .Describe the etiology, clinical picture, diagnosis and management of the following diseases and clinical conditions: <ul style="list-style-type: none"> • List the etiology and classification of male infertility. • Describe the basic investigations of male infertility including, semen analysis, hormonal profile, scrotal duplex, transrectal ultrasound, testicular biopsy and basic genetic tests. • Discuss etiology, pathogenesis and treatment of varicocele. • Describe etiology, diagnosis and treatment of azoospermia. • Describe etiology, diagnosis and treatment of endocrinal causes of infertility. • Describe etiology, diagnosis and treatment of immunological infertility. • Describe etiology, clinical picture and treatment of testicular causes of infertility. • Describe etiology, diagnosis and treatment genital tract infections • Describe genetic causes of male infertility. • Describe etiology and management of sperm deposition disorders. • Know different gonadotoxins and the impact of different systemic diseases on male fertility • Describe basic concepts of different assisted conception techniques, their main indications and their limitations • Describe different protocols and steps of IUI • Describe semen processing techniques and list the advantages and disadvantages of each method 	Didactic; -Lectures -Clinical rounds -Operative theatre -Seminars -Clinical rotations (service teaching)	-OSCE at the end of each year -logbook& portfolio - MCQ examination -Oral and written exam

<ul style="list-style-type: none"> • Aware of different protocols for ovarian hyperstimulation and different techniques of monitoring of ovulation • State the indications, techniques and limitations of cryopreservation • Describe the different methods of sperm retrieval techniques. • Recognize ethical and psychological aspects of assisted reproduction 		
<p>B. Illustrate the principles of (diagnostic/therapeutic/preventive tools)</p> <ul style="list-style-type: none"> • Male infertility. • Varicocele. • Azoospermia. • Environmental causes of infertility • Endocrinal causes of infertility. • Immunological infertility. • Testicular causes of infertility. • Genital tract infections • Genetic causes of male infertility. • Sperm deposition disorders. • Gonadotoxins and the impact of different systemic diseases on male fertility • ART • IUI • Semen processing techniques • Cryopreservation • Sperm retrieval techniques. 		
<p>C. State update and evidence based Knowledge of:</p> <ul style="list-style-type: none"> • Male infertility related to systemic diseases • Assisted reproduction • Rare causes of male infertility • Recent advances of male infertility management 		
<p>D .Memorize the facts and principles of the relevant basic and clinically supportive sciences related to Male reproductive Medicine and Surgery</p>		
<p>E. Explain the facts and principles of the relevant basic and clinically supportive sciences related to Andrology</p>		
<p>F. Describe the basic ethical and medicolegal principles relevant to the Andrology</p>		
<p>G. Describe the basics of quality assurance to ensure good clinical care in his field</p>		
<p>H. Explain the ethical and scientific principles of medical research</p>		
<p>I. Explain the impact of common health problems in the field of Dermatology on the society.</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 diseases related to Andrology .	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 Andrology .		
C. Design and present cases , seminars in common Andrology problem		
D-Formulate management plans and alternative decisions in different situations in the field of the Andrology		

C- Practical skills (Patient Care)

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

<ul style="list-style-type: none"> • Hormonal profile • CASA • sperm function tests • sperm ultrastructure studies • Male hormonal profile • Scrotal duplex • Testicular biopsy 		
<p>D. Perform the following non invasive & invasive diagnostic procedures</p> <ul style="list-style-type: none"> • Semen analysis • Additional semen tests e.g. supravital stain, peroxidase test..etc • Urine analysis • EPS • CASA • Post coital test • Scrotal ultrasound and duplex • Testicular biopsy 	Clinical round with senior staff -Perform under supervision of senior staff	Procedure presentation - Log book - Chick list
<p>E. Perform the following non invasive &invasive therapeutic procedures:</p> <ul style="list-style-type: none"> • Semen processing • Semen cryopreservation • Testicular biopsy • Varicocelectomy • Scrotal exploration • Epididymovasostomy • Vasovasostomy • Testicular sperm extraction • IUI • Searching for sperms in testicular tissue for ICSI 	Clinical round with senior staff	
<p>F. Prescribe the following non invasive & invasive therapeutic procedures:</p> <ul style="list-style-type: none"> • Medical treatment for male infertility • Male hormone replacement therapy • Assisted Reproductive Technologies 		
<p>G. Carry out patient management plans for the following problems</p> <ul style="list-style-type: none"> • Endocrinal infertility • Occupational infertility • Genetic infertility • Male genital tract infection • Azoospermia • ART 		

H. Use information technology to support patient care decisions and patient education for the Andrology related conditions.		
I. Provide health care services aimed at preventing the following conditions <ul style="list-style-type: none"> • Endocrinal infertility • Occupational infertility • Genetic infertility • Male genital tract infection 		
J. Work with health care professionals, including those from other disciplines, to provide patient-focused care		
K. 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 in the common problems (plan and conduct audit cycles)	-Case log -Observation and supervision -Written & oral communication	Procedure/case presentation -Logbookand 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	Methods of
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	teaching/ learning	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 LogbookPortfolios 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 Andrological problem		
K. Write a report in a. Medicolegal reports		
L. Counsel and educate patients and their family about: <ul style="list-style-type: none"> • Various Andrological disorders • Examination of different Andrological disorders • Male genital tract infection • Environmental hazards on male fertility 		

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

Course 9: Unit 2
Sexual Medicine and Surgery
(Sexology)

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"> Describe the anatomy of the male and female genital organs. Outline normal and abnormal psychosexual development. Describe physiology of erection, ejaculation and sexual response cycle. Outline the psychogenic and organic causes of erectile dysfunction. Describe the investigations for evaluation of erectile dysfunction. Recognize different treatment modalities of erectile dysfunction, their indications, contraindications, complications, principles and techniques of sex therapy, basic surgical concepts of penile surgery and future aspects of treatment. Describe the etiology and management of sexual desire disorders in both sexes. Describe causes, diagnosis and treatment of ejaculatory disorders Describe the etiology, classification, diagnosis and management of female sexual dysfunction. Recognize the basic principles of sex education for the community and manage different psychological disorders related to male sexuality. Describe causes, diagnosis and management of the following penile disorders: priapism, fracture penis, Peyronie's disease Describe etiology and management of sexual perversions and paraphilias. Describe etiology and management of gender identity disorders Describe etiology and management of Sexual trauma Describe etiology and management of Forensic sexology Describe hormonal changes in the aging male and the hormone replacement therapy Identify the possible interaction between drugs, medical illness and sexuality 	<p>Didactic; -Lectures -Clinical rounds -Operative theatre -Seminars -Clinical rotations (service teaching)</p>	<p>-OSCE at the end of each year -logbook & portfolio - MCQ examination -Oral and written exam</p>
<p>B. Illustrate the principles of (diagnostic/therapeutic/preventive tools)</p> <ul style="list-style-type: none"> Male Sexology. Erectile dysfunction. Peyronie's disease Medical treatment of ED Surgical treatment of ED Sex therapy Ejaculatory disorders 		

<ul style="list-style-type: none"> Female Sexual dysfunction Sexual deviations 		
C. State update and evidence based Knowledge of: <ul style="list-style-type: none"> Sexual dysfunction related to systemic diseases Gene therapy Rare causes of sexual dysfunction Recent advances of sexual dysfunction management 		
D.Memorize the facts and principles of the relevant basic and clinically supportive sciences related to Sexual Medicine and Surgery (Sexology)		
E.Explain the facts and principles of the relevant basic and clinically supportive sciences related to Sexology		
F.Describe the basic ethical and medicolegal principles relevant to the Sexology		
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 Sexology 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 Sexology .	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 Sexology .		
C. Design and present cases, seminars in common Sexology problem		
D-Formulate management plans and alternative decisions in different situations in the field of the Sexology		

C- Practical skills (Patient Care)

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Take history, examine and clinically diagnose different conditions related to Sexual Medicine and Surgery (Sexology)	-Didactic; -Lectures -Clinical rounds -Seminars -Clinical rotations (service teaching)	- OSCE at the end of each year -logbook& portfolio - MCQ examination

<p>B. Order the following non invasive/invasive diagnostic procedures</p> <ul style="list-style-type: none"> • Hormonal profile • ICI • Bioethiometry • Penile duplex • Rigiscan (NPT) 	<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&invasive diagnostic procedures</p> <ul style="list-style-type: none"> • Hormonal profile • ICI • Bioethiometry • Penile duplex • Rigiscan (NPT) 	<p>Clinical round with senior staff</p>	<p>Procedure presentation - Log book - Chick list</p>
<p>D. Perform the following non invasive & invasive diagnostic procedures</p> <ul style="list-style-type: none"> • ICI • Bioethiometry • Penile duplex • Rigiscan (NPT) 	<p>Clinical round with senior staff -Perform under supervision of senior staff</p>	<p>Procedure presentation - Log book - Chick list</p>
<p>E. Perform the following non invasive &invasive therapeutic procedures:</p> <ul style="list-style-type: none"> • ICI home therapy • Peyronies local injection • Penile prosthesis implantation • Penile prosthesis removal • Fracture penis repair • Aspiration Irrigation for priapism • Shunt operations • Andrological emergency management 	<p>Clinical round with senior staff Operative theatre</p>	
<p>F. Prescribe the following non invasive & Invasive therapeutic procedures:</p> <ul style="list-style-type: none"> • Medical treatment for sexual dysfunction • Surgical treatment of ED • Surgical treatment of penile curvatures 		
<p>G. Carry out patient management plans for the following problems</p> <ul style="list-style-type: none"> • Male sexual dysfunction • Peyronies disease • Ejaculatory disorders • Sexual deviations • Female sexual dysfunction 		

H. Use information technology to support patient care decisions and patient education for the Sexology related conditions.		
I. Provide health care services aimed at preventing the following conditions <ul style="list-style-type: none"> • Male sexual dysfunction • Ejaculatory disorders • Sexual perversions • Female sexual dysfunctions 		
J. Work with health care professionals, including those from other disciplines, to provide patient-focused care		
K. 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 in the common problems (plan and conduct audit cycles)	-Case log -Observation and supervision -Written & oral communication	Procedure/case presentation -Logbook 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 LogbookPortfolios 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 Sexology problem		
K. Write a report in <ul style="list-style-type: none"> • Medicolegal reports 		
L. Counsel and educate patients and their family about: <ul style="list-style-type: none"> • Various Sexology disorders • Examination of different Sexology disorders • Children Sexuality • Environmental hazards on male Sexuality • Sexual assaults • Medical factors affecting Sexuality 		

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		1. 360o global

pertaining to provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.		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

Course 9: Unit 3 Sexually Transmitted Diseases (STDs)

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"> A. Gonorrhea B. NGU: Chlamydia & Mycoplasma C. Syphilis D. Tropical STIs E. Genital herpes F. Human papilloma virus and genital warts G. Other viral STIs H. HIV & AIDS I. Genital infestations J. Genital ulcers K. Urethral discharge L. Vaginal discharge M. Reiter's syndrome - Behcets disease N. Epididymitis and epididymo-orchitis O. Upper genital tract infection in women - Pelvic inflammatory disease P. Homosexually acquired STIs 	<p>Didactic;</p> <ul style="list-style-type: none"> -Lectures -Clinical rounds -Seminars -Clinical rotations (service teaching) 	<ul style="list-style-type: none"> -OSCE at the end of each year -logbook& portfolio - MCQ examination -Oral and written exam
B. Illustrate the principles of (diagnostic/therapeutic/preventive tools) related to Sexually transmitted diseases		
C. State update and evidence based Knowledge of:		
<ul style="list-style-type: none"> • Sexually transmitted diseases 		
D. Memorize the facts and principles of the relevant basic and clinically supportive sciences related to STDs		
E. Explain the facts and principles of the relevant basic and clinically supportive sciences related to STDs		
F. Describe the basic ethical and medicolegal principles relevant to the STDs		
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 Sexology 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 STDs .	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 STDs .		
C. Design and present cases , seminars in common STDs problem		
D-Formulate management plans and alternative decisions in different situations in the field of the STDs		

C- Practical skills (Patient Care)

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Take history, examine and clinically diagnose different conditions related to STDs	-Didactic; -Lectures -Clinical rounds -Seminars -Clinical rotations (service teaching)	- OSCE at the end of each year -logbook& portfolio - MCQ examination
B. Order the following non invasive/invasive diagnostic procedures <ul style="list-style-type: none"> Laboratory investigations for diagnosis of different STDs 	Clinical round with senior staff Observation Post graduate teaching Hand on workshops	-Procedure presentation - Log book - Chick list
C. Interpret the following non invasive&invasive diagnostic procedures <ul style="list-style-type: none"> Laboratory investigations for diagnosis of different STDs 	Clinical round with senior staff	Procedure presentation - Log book - Chick list
D. Perform the following non invasive & invasive diagnostic procedures <ul style="list-style-type: none"> Laboratory investigations for diagnosis of different STDs 	Clinical round with senior staff -Perform under supervision of senior staff	Procedure presentation - Log book - Chick list

E. Perform the following non invasive &invasive therapeutic procedures: <ul style="list-style-type: none">Local therapeutic procedures for different STDs	Clinical round with senior staff	
F. Prescribe the following non invasive & Invasive therapeutic procedures: <ul style="list-style-type: none">Medical treatment for STDsLocal therapeutic procedures for different STDs		
G. Carry out patient management plans for the following problems <ul style="list-style-type: none">Different STDs		
H. Use information technology to support patient care decisions and patient education for the STDs related conditions.		
I. Provide health care services aimed at preventing the following conditions <ul style="list-style-type: none">HIVGonorrheaHerpes genitalisNeonatal STDs		
J. Work with health care professionals, including those from other disciplines, to provide patient-focused care		
K. 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 in the common problems (plan and conduct audit cycles)	-Case log -Observation and supervision -Written & oral communication	Procedure/case presentation -Logbook 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 LogbookPortfolios 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 Sexology problem		
K. Write a report in b. Medicolegal reports		
L. Counsel and educate patients and their family about: <ul style="list-style-type: none"> Different STDs 		

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

Course 9
Unit 4: Assistance
Reproduction
A-Knowledge and understanding

ILOs Use one verb for each sentence like AA WRITE JUST TITLE OF TOPICS UNDER THE TITLE OF SENTENCE	Methods of teaching/ learning	Methods of Evaluation
<p>A .Describe the following:</p> <ul style="list-style-type: none"> • List the etiology and classification of male infertility. • Describe basic concepts of different assisted conception techniques, their main indications and their limitations • Describe different protocols and steps of IUI • Describe semen processing techniques and list the advantages and disadvantages of each method • Aware of different protocols for ovarian hyperstimulation and different techniques of monitoring of ovulation • State the indications, techniques and limitations of cryopreservation • Describe the different methods of sperm retrieval techniques. • Recognize ethical and psychological aspects of assisted reproduction • Discuss etiology, pathogenesis and treatment of varicocele. • Describe etiology, diagnosis and treatment of azoospermia. • Describe etiology, diagnosis and treatment of endocrinal causes of infertility. • Describe etiology, diagnosis and treatment of immunological infertility. • Describe etiology, diagnosis and treatment genital tract infections • Describe genetic causes of male infertility. • Describe etiology and management of sperm deposition disorders. • Know different gonadotoxins and the impact of different systemic diseases on male fertility • 	<p>Didactic;</p> <ul style="list-style-type: none"> -Lectures -Clinical rounds -Operative theatre -Seminars -Clinical rotations (service teaching) 	<p>-OSCE at the end of each year</p> <p>-logbook& portfolio</p> <p>- MCQ examination</p> <p>-Oral and written exam</p>
<p>B. Illustrate the principles of (diagnostic/therapeutic/preventive tools)</p> <ul style="list-style-type: none"> • Sperm deposition disorders. • Gonadotoxins and the impact of different systemic diseases on male fertility • ART • IUI • Semen processing techniques • Cryopreservation • Sperm retrieval techniques. 		
<p>C. State update and evidence based Knowledge of:</p> <ul style="list-style-type: none"> • Assisted reproduction • Rare causes of male infertility • Recent advances of male infertility management 		

D . Memorize the facts and principles of the relevant basic and clinically supportive sciences related to Andrology		
E. Explain the facts and principles of the relevant basic and clinically supportive sciences related to Andrology		
F. Describe the basic ethical and medicolegal principles relevant to the Andrology		
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 Andrology 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 Andrology .	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 Andrology .		
C. Design and present cases , seminars in common Andrology problem		
D-Formulate management plans and alternative decisions in different situations in the field of the Andrology		

C- Practical skills (Patient Care)

ILOs	Methods of teaching/ learning	Methods of Evaluation
A-Take history, examine and clinically diagnose different conditions related to Andrology	-Didactic; -Lectures -Clinical rounds -Seminars -Clinical rotations (service teaching)	- OSCE at the end of each year -logbook& portfolio - MCQ examination
B-Order the following non invasive/invasive diagnostic procedures <ul style="list-style-type: none"> • Semen analysis • Hormonal profile 	Clinical round with senior staff Observation Post graduate	-Procedure presentation - Log book - Check list

<ul style="list-style-type: none"> • CASA • sperm function tests • sperm ultrastructure studies • Testicular biopsy • Semen cryopreservation 	teaching Hand on workshops	
<p>C-Interpret the following non invasive & invasive diagnostic procedures</p> <ul style="list-style-type: none"> • Semen analysis • Urine analysis • EPS • Hormonal profile • CASA • sperm function tests • sperm ultrastructure studies • Male hormonal profile • Testicular biopsy 	Clinical round with senior staff	Procedure presentation - Log book - Chick list
<p>D-Perform the following non invasive & invasive diagnostic procedures</p> <ul style="list-style-type: none"> • Semen analysis • Additional semen tests e.g. supravital stain, peroxidase test..etc • EPS • CASA • Post coital test • Scrotal ultrasound and duplex • Testicular biopsy 	Clinical round with senior staff -Perform under supervision of senior staff	Procedure presentation - Log book - Chick list
<p>E-Perform the following non invasive &invasive therapeutic procedures:</p> <ul style="list-style-type: none"> • Semen processing • Semen cryopreservation • Testicular biopsy • Testicular sperm extraction • IUI • Searching for sperms in testicular tissue for ICSI 	Clinical round with senior staff	
<p>F-Prescribe the following non invasive & invasive therapeutic procedures:</p> <ul style="list-style-type: none"> • Assisted Reproductive Technologies 		
<p>G-Carry out patient management plans for the following problems</p> <ul style="list-style-type: none"> • ART 		
<p>H-Use information technology to support patient care decisions and patient education for the Andrology related conditions.</p>		

I-Work with health care professionals, including those from other disciplines, to provide patient-focused care		
J-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 in the common problems (plain and conduct audit cycles)	-Case log -Observation and supervision -Written & oral communication	Procedure/case presentation -Logbookand 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 LogbookPortfolios 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 Andrological problem		
K. Write a report in c. Medicolegal reports		
L. Counsel and educate patients and their family about: <ul style="list-style-type: none"> • Various Andrological disorders • Examination of different Andrological disorders • Male genital tract infection • Environmental hazards on male fertility 		

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

Course 9: Unit 5 Andrology Related Disorders

A- Knowledge and understanding

ILOs	Methods teaching/ learning	of 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"> - overpopulation and its mechanisms and threats to the community - different contraceptive methods and their advantages and disadvantages - hormonal and non-hormonal methods of male contraception. - physiology of normal puberty and pubertal disorders - disorders of sexual differentiation. - testicular pain, swelling and prostatic disorders. - testicular tumors, their clinical presentations and management 	<p>Didactic; -Lectures -Clinical rounds -Seminars -Clinical rotations (service teaching)</p>	<p>-OSCE at the end of each year -logbook& portfolio - MCQ examination -Oral and written exam</p>
A. Illustrate the principles of (diagnostic/therapeutic/preventive tools) related to A.A.		
C. State update and evidence based Knowledge of: Andrology related disorders		
D. Memorize the facts and principles of the relevant basic and clinically supportive sciences related to General Andrology		
E. Explain the facts and principles of the relevant basic and clinically supportive sciences related to General Andrology		
F. Describe the basic ethical and medicolegal principles relevant to the General Andrology		
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 General Andrology 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 Andrology related disorders.	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 Andrology related disorders.		
C. Design and present cases , seminars in common Andrology related disorders		
D-Formulate management plans and alternative decisions in different situations in the field of the Andrology related disorders		

C- Practical skills (Patient Care)

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Take history, examine and clinically diagnose different conditions related to Andrology related disorders	-Didactic; -Lectures -Clinical rounds -Seminars -Clinical rotations (service teaching)	- OSCE at the end of each year -logbook& portfolio - MCQ examination
A. Order the following non invasive/invasive diagnostic procedures <ul style="list-style-type: none"> Diagnostic procedures for diagnosis of different conditions related to general andrology 	Clinical round with senior staff Observation Post graduate teaching Hand on workshops	-Procedure presentation - Log book - Chick list
B. Interpret the following non invasive&invasive diagnostic proceduresfor diagnosis of different conditions related to general andrology	Clinical round with senior staff	Procedure presentation - Log book - Chick list
C. Perform the following non invasive & invasive diagnostic procedures for diagnosis of different conditions related to general andrology	Clinical round with senior staff -Perform under	Procedure presentation - Log book

	supervision of senior staff	- Chick list
<p>D. Perform the following non invasive &invasive therapeutic procedures:</p> <ul style="list-style-type: none"> • Orchidopexy • Hydrocelectomy 	Clinical round with senior staff	
<p>E. Prescribe the following non invasive & Invasive therapeutic procedures including:</p> <ul style="list-style-type: none"> • Medical treatment for STDs • Local therapeutic procedures for different STDs 		
<p>F. Carry out patient management plans for the following problems</p> <ul style="list-style-type: none"> • Ambiguous genitalia • Prostatitis • Testicular swelling • Testicular pain 		
<p>G. Use information technology to support patient care decisions and patient education for the General Andrology related conditions.</p>		
<p>H. Provide health care services aimed at preventing the following conditions</p> <ul style="list-style-type: none"> • Sex differentiation disorders • Testicular tumors • Prostatitis 		
<p>I. Work with health care professionals, including those from other disciplines, to provide patient-focused care</p>		
<p>J. 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>		

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 -Logbookand 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 LogbookPortfolios 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 Sexology problem		
K. Write a report in Medicolegal reports		
L. Counsel and educate patients and their family about Different STDs		

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

Unit 1&4: Male reproductive Medicine and Surgery& Assistance
Reproduction

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
1. Orientation and introduction to the course	C	A	-	-
2. Review the anatomy of reproductive organs	A,B,D,E	A,B,D	-	-
3. Physiology of testicular function (I)	A-I	A-D	-	A,D,O
a. Functional organization of the testis	A-I	A-D	-	A,C, D,O
b. Kinetics of spermatogenesis				
4. Physiology of testicular function (II)	A-I	A-D	-	A,C,D,O
a. Hormonal control of spermatogenesis				
5. Physiology of testicular function (III)	A-I	A-D	-	A,C, D,O
a. Local regulation of testicular function				
b. Temperature regulation of testicular function				
6. Physiology of testicular function (IV)	A-I	A-D	-	A,C, D,O
a. Testicular androgens				
7. Sperm Maturation and transport	A-C	A,B	C	A
8. Classification of etiological causes of male infertility	A-C	A,B	F	A
9. Overview of the management of the infertile male	A-C	A,B	F	A
10. Evaluation of the infertile male	A-I	A-D	A,D, F-J	A-R
11. Semen analysis	A-I	A-D	A-J	A-R
12. Advanced techniques in semen analysis	A-I	A-D	A,D, F-J	A-R
13. Laboratory investigations for the infertile male	A-I	A-D	A, D-J	A-R

14. Testicular biopsy	A-I	A-D	A, D-J	A-R
15. Sperm function tests	A-I	A-D	A, D-J	A-R
16. US and other imaging techniques	A-I	A-D	A, D-J	A-R
17. Congenital disorders and male infertility	A-I	A-D	A, D-J	A-R
18. Genetics and male infertility	A-I	A-D	A, D-J	A-R
19. Endocrine factors and Hypogonadism	A-I	A-D	A, D-J	A-R
20. Varicocele	A-I	A-D	A, D-J	A-R
21. Genital tract infection	A-I	A-D	A-J	A-R
22. Immunological infertility	A-I	A-D	A-J	A-R
23. Systemic causes of male infertility	A-I	A-D	A-J	A-R
24. Gonadotoxins and Iatrogenic causes	A-I	A-D	A-J	A-R
25. Non specific treatment for male infertility	A-I	A-D	A-J	A-R
26. Causes and management of NOA	A-I	A-D	A-J	A-R
27. Causes and management of obstructive azoospermia	A-I	A-D	A-J	A-R
28. Ejaculatory disorders and male infertility	A-I	A-D	A-J	A-R
29. Management of isolated semen parameters disorder	A-I	A-D	A-J	A-R
30. Psychological aspects of male infertility	A-I	A-D	A-J	A-R
31. Gametes and Gametogenesis	A-I	A-D	A-J	A-R
32. Fertilization	A-I	A-D	A-J	A-R
33. Early development of the embryo	A-I	A-D	A-J	A-R
34. Evaluation of the female from an andrology prospective	A-I	A-D	A-J	A-R
35. Patient selection and management	A-I	A-D	A-J	A-R
36. Laboratory techniques (I): Semen processing	A-I	A-D	A-J	A-R
37. Laboratory techniques (II): Cryopreservation	A-I	A-D	A-J	A-R
38. Artificial insemination techniques	A-I	A-D	A-K	A-R
39. IVF and development of modern ART	A-H	A-D	A-J	A-R
40. ICSI indications technique and results	A-I	A-D	A-J	A-R
41. Sperm retrieval techniques	A-I	A-D	A-J	A-R
42. Genetic counseling and PGD	A-I	A-D	A-J	A-R
43. Total quality management in reproductive medicine	A-H	A-D	A-J	A-R
44. Future aspects of assisted conceptions	A-H	A-D	A-G	A-R
45. Ethical aspects of assisted reproduction	A-H	A-D	A-G	A-R

(Unit 2: Sexual Medicine and Surgery)

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
1. Orientation and introduction to the course	A-H	A	H	-
2. Historical aspects - Psychosexual development theories	A-H	A-D	A-C, K	A-R
3. Normal sexuality and the sex response cycle	A-G	A-D	A,C,K	A-R
4. Classification of sexual disorders	A-H	A-D	A-K	A-R
5. Physiology of erection and its hemodynamics	A-H	A-D	A-K	A-R
6. Etiology and risk factors of erectile dysfunction(1 lecture)	A-H	A-D	A-K	A-R
7. Diagnosis of erectile dysfunction (1 lecture).	A-H	A-D	A-K	A-R
8. Treatment of erectile dysfunction overview	A-H	A-D	A-K	A-R
9. Principles of sex therapy	A-H	A-D	A-K	A-R
10. Oral treatment for erectile dysfunction	A-H	A-D	A-K	A-R
11. Intracavernous injections, Transurethral and Topical therapy	A-H	A-D	A-K	A-R
12. Non-invasive treatment: Vacuum devices – Electrovibrators	A-H	A-D	I,K	A-R
13. Surgical treatment of erectile dysfunction: Vascular surgery and penile prosthesis surgery.	A-H	A-D	A-K	A-R
14. Future treatment Aspects of erectile dysfunction: Gene therapy and Tissue Engineering - penile augmentation and reconstruction	A-H	A-D	I,K	A-R
15. Ejaculatory Disorders 1: (Premature ejaculation)	A-H	A-D	A-K	A-R
16. Ejaculatory Disorders 2: Retarded, Retrograde and unpleasurable ejaculation	A-H	A-D	I,K	A-R
17. Priapism	A-H	A-D	A-K	A-R
18. Peyronies disease	A-H	A-D	I,K	A-R
19. Geriatric sexuality- aging male	A-H	A-D	A-K	A-R
20. Introduction to female	A-H	A-D	I,K	A-R

sexual dysfunction etiology - classification	A-H	A-D	A-K	A-R
21. Sexual Desire disorders, Sexual Aversion disorders, Sexual Arousal disorders And Orgasmic disorders.	A-H	A-D	I,K	A-R
22. Sexual pain disorders	A-H	A-D	A-K	A-R
23. Evaluation and Management of female sexual dysfunction-- Future trends	A-H	A-D	I,K	A-R
24. Drugs and sexuality	A-H	A-D	A-K	A-R
25. Sex and medical illness	A-H	A-D	I,K	A-R
26. Childhood sexuality	A-H	A-D	A-K	A-R
27. Principles of sex education	A-H	A-D	I,K	A-R
28. Sexual perversions and paraphilias	A-H	A-D	A-K	A-R
29. Gender identity disorders	A-H	A-D	I,K	A-R
30. Forensic Sexology and Management of sexual trauma	A-H	A-D	A-K	A-R
Androgens and Replacement therapy: <ul style="list-style-type: none"> • Oral. • Parenteral. • Local. • Implant 	A-H	A-D	A-K	A-R
Scrotal swelling	A-H	A-D	A-K	A-R
Testicular Torsion	A-E	A-D	A-K	A-R
Introduction to Sexually transmitted disease.	A-H	A-D	A-K	A-R
Gonorrhoea	A-D	A-D	A-K	A-R
Non gonococcal Urethritis	A-D	A-D	A-K	A-R
Lymphogranuloma venerium	A-D	A-D	A-K	A-R
Syphilis	A-D	A-D	A-K	A-R
Chancroid	A-D	A-D	A-K	A-R
Mycoplasma	A-D	A-D	A-K	A-R
Granuloma inguinal	A-D	A-D	A-K	A-R
Genital herpes	A-D	A-D	A-K	A-R
Genital warts	A-H	A-D	A-K	A-R
HIV and viral hepatitis	A-H	A-D	A-K	A-R
Molluscum contagiosum	A-D	A-D	A-K	A-R
Other viral STDs: Epstien Bar Virus. Cytomegalovirus.	A-D	A-D	G-K	A-R
Fungal STDs	A-H	A-D	A-K	A-R
Protozoal STDs	A-H	A-D	A-K	A-R
Parasitic STDs	A-H	A-D	A-K	

Prostatitis: <ul style="list-style-type: none"> Bacterial. A Bacterial. Granulomatous. Inflammatory 	A-H	A-D	A-K	A-R
Epididymitis and epididymo-orchitis: <ul style="list-style-type: none"> Bacterial. Non Bacterial. Chemical. 	A-H	A-D	A-K	A-R
Urethritis: <ul style="list-style-type: none"> Gonococcal. Non gonococcal 	A-H	A-D	A-K	A-R
Vaginitis	A-H	A-D	I,J	A-R
Balanitis and Posthitis	A-H	A-D	A-K	A-R
Vulvitis	A-H	A-D	I,J	A-R
Pelvic inflammatory disease	A-H	A-D	I,J	A-R
STDs causing urethral discharge	A-H	A-D	A-K	A-R
STDs causing genital ulcers	A-H	A-D	A-K	A-R
STDs causing arthritis and Reiter's disease	A-H	A-D	A-K	A-R
STDs with oral affections	A-H	A-D	A-K	A-R
STDs with neurological affection	A-H	A-D	A-K	A-R
STDs with ocular affection	A-H	A-D	A-K	A-R
STDs with lymphadenopathy	A-H	A-D	A-K	A-R
Male and Female genital dermatoses and neoplasms	A-H	A-D	A-K	A-R

(Unit 3: Sexually transmitted diseases)

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
1. Orientation and introduction to the course	A-H	A	H	-
2. Epidemiology of STIs	A-H	A-D	A-C, K	A-R
3. Host defences and pathogenesis Of STIs	A-G	A-D	A,C,K	A-R
4. Gonorrhea	A-H	A-D	A-K	A-R
5. NGU: Chlamydia & Mycoplasma	A-H	A-D	A-K	A-R
6. Syphilis (a) (introduction & Early Syphilis)	A-H	A-D	A-K	A-R

7. Syphilis (b) (Late & Congenital Syphilis)	A-H	A-D	A-K	A-R
8. Syphilis (c) (Laboratory Diagnosis - Management)	A-H	A-D	A-K	A-R
9. Tropical STIs	A-H	A-D	A-K	A-R
10. Genital herpes	A-H	A-D	A-K	A-R
11. Human papilloma virus and genital warts	A-H	A-D	A-K	A-R
12. Other viral STIs	A-H	A-D	I,K	A-R
13. HIV & AIDS (a) virology epidemiology and control	A-H	A-D	A-K	A-R
14. HIV & AIDS (b) stages and clinical picture	A-H	A-D	I,K	A-R
15. HIV & AIDS (c) Management – antiviral therapy	A-H	A-D	A-K	A-R
16. Genital infestations	A-H	A-D	I,K	A-R
17. Clinical syndromes: Genital ulcers	A-H	A-D	A-K	A-R
18. Clinical syndromes: Urethral discharge	A-H	A-D	I,K	A-R
19. Clinical syndromes: Vaginal discharge	A-H	A-D	A-K	A-R
20. Reiter's syndrome - Behcets disease	A-H	A-D	I,K	A-R
21. Epididymitis and epididymo-orchitis	A-H	A-D	A-K	A-R
22. Upper genital tract infection in women - Pelvic inflammatory disease	A-H	A-D	I,K	A-R
23. Homosexually acquired STIs	A-H	A-D	A-K	A-R
24. Psychological aspects of STIs	A-H	A-D	I,K	A-R
25. Pregnancy and STIs	A-H	A-D	A-K	A-R
26. Pediatric and neonatal STIs	A-H	A-D	I,K	A-R
27. Prevention & control of STIs	A-H	A-D	A-K	A-R
28. Genital dermatoses	A-H	A-D	I,K	A-R
29. Malignancy and STIs	A-H	A-D	A-K	A-R
30. STIs and infertility - STIs and contraception	A-H	A-D	I,K	A-R

(Unit 5: Andrology related disorders)

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
1. Puberty and abnormal pubertal development	A-H	A	H	A-R
2. Sexual differentiation	A-H	A-D	A-C, K	A-R
3. Intersex	A-G	A-D	A,C,K	A-R
4. Male contraception	A-H	A-D	A-K	A-R
5. Gynecomastia	A-H	A-D	A-K	A-R
6. Testicular tumors principals of diagnosis and management.	A-H	A-D	A-K	A-R
7. Testicular descent and undescended testis	A-H	A-D	A-K	A-R
8. Testicular torsion	A-H	A-D	A-K	A-R
9. Testicular pain and pain related disorders	A-H	A-D	A-K	A-R
10. Scrotal and inguinal swellings	A-H	A-D	A-K	A-R
11. Disorders of the prostate I (prostatitis)	A-H	A-D	A-K	A-R
12. Disorders of the prostate II (BPH – prostatic cancer)	A-H	A-D	A-K	A-R
13. Chronic specific inflammatory disorders of male genital tract	A-H	A-D	I,K	A-R
14. Benign lesions and malignancy of the male genital tract	A-H	A-D	A-K	A-R
15. Geriatric andrology	A-H	A-D	I,K	A-R

5. Methods of teaching/learning:

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

11. Clinical rotation in dermabrasion, laser and biopsy room
12. Senior staff experience
13. Case log
14. Observation and supervision
15. Written & oral communications
16. Simulation
17. Hand on work shop
18. Service teaching
19. Perform under supervision of senior staff
20. 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 Logbook and Portfolios
- Simulation
- Record review (report)
- Patient survey
- Global rating
- Check list evaluation of live or recorded performance

ii. Time schedule: 2nd part.

iii. Marks: 1200= 600 marks for written+300 for oral and 300 for clinical exam.

8. List of references

i. Lectures notes

Hard or soft copies from lectures by staff members of the Department 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

iii. Recommended books

- Sexually transmitted diseases of the tropics (Arya),1998
- Sexually transmitted diseases (Mc Millan),2006
- Male Reproductive Health and Dysfunction (Neichlag),2010
- Text book of Erectile Dysfunction (Goldstein),2013
- Male Infertility (Lipshults),2009

iv. Periodicals, Web sites, ... etc

- Andrologia
- Human Andrology
- Int journal of Andrology
- Journal of Sexual Medicine
- www.pubmed.com

i. Asian J of Andrology website (www.AJA.org)

v. others

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

9. Signatures

Course Coordinator: - Dr. Ali Mahran	Head of the Department: - Prof. Dr. Prof Dr Hatem Zidan Mohammed
Date:	Date:

ANNEX 2

Program Academic Reference Standards (ARS)

Program Academic Reference Standards (ARS)

1- Graduate attributes for Master Degree in Andrology, Sexology and Sexually Transmitted Diseases

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 Andrology, Sexology and STDs
- 2- Appraise and utilise scientific knowledge to continuously update and improve clinical practice in related specialty.
- 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 Andrology, Sexology and STDs.
- 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 specialty.
- 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 Andrology, Sexology and STDs.
- 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 Andrology, Sexology and STDs.

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 Andrology, Sexology and STDs 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 specialty and the welfare of society.

2-1-C- Up to date and recent developments in common problems related to Andrology, Sexology and STDs

2-1-D- Ethical and medicolegal principles relevant to practice in Andrology, Sexology and STDs

2-1-E -Quality assurance principles related to the good medical practice in Andrology, Sexology and STDs

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 Andrology, Sexology and STDs.

2-2-B- Problem solving skills based on data analysis and evaluation (even in the absence of some) for common clinical situations related to Andrology, Sexology and STDs.

2-2- C- Demonstrating systematic approach in studying clinical problems relevant to Andrology, Sexology and STDs

2-2-D- Making alternative decisions in different situations in Andrology, Sexology and STDs.

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 Andrology, Sexology and STDs for patients with common diseases and problems.

2-3-C- Write and evaluate reports for situations related to the field of Andrology, Sexology and STDs.

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:



مصنوفة توافق المعايير القومية القياسية العامة لبرامج الماجستير مع المعايير الأكاديمية
المعتمدة من كلية الطب □ جامعة أسيوط لدرجة الماجستير في طب وجراحه امراض الذكوره
والتناسل والعقم.

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

1- Graduate attributes

Faculty ARS	NAQAAE 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 Andrology, Sexology and STDs	١- إجادة تطبيق أساسيات و منهجيات البحث العلمي واستخدام أدواته المختلفة
2- Appraise and utilise scientific knowledge to continuously update and improve clinical practice in Andrology, Sexology and STDs	٢- 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 Andrology, Sexology and STDs	٣- تطبيق المعارف المتخصصة و دمجها مع المعارف ذات العلاقة في ممارسته المهنية
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.	٤- إظهار وعيا بالمشاكل الجارية و الرؤى الحديثة في مجال التخصص
5- Identify and share to solve health problems in Andrology, Sexology and STDs	٥- تحديد المشكلات المهنية و إيجاد حلولاً لها

6- Acquire all competencies that enable him to provide safe, scientific, ethical and evidence based clinical care including update use of new technology in Andrology, Sexology and STDs	٦- إتقان نطاق مناسب من المهارات المهنية المتخصصة، واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية
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.	7- التواصل بفاعلية و القدرة على قيادة فرق العمل
9- Acquire decision making capabilities in different situations related to Andrology, Sexology and STDs	٨- 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.	٩- 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.	١٠- إظهار الوعي بدوره في تنمية المجتمع و الحفاظ على البيئة في ضوء المتغيرات العالمية و الإقليمية
12- Show appropriate attitudes and professionalism.	١١- 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 Andrology, Sexology and STDs or one of its subspecialties.	١٢- 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.	١-٢ 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 Andrology, Sexology and STDs and the welfare of society.	١-٢ ب- التأثير المتبادل بين الممارسة المهنية وانعكاسها علي البيئة.
2.1. C- Up to date and recent developments in common problems related to Andrology, Sexology and STDs	١-٢ ج- التطورات العلمية في مجال التخصص.
2.1. D- Ethical and medicolegal principles relevant to practice in the Andrology, Sexology and STDs.	١-٢ د- المبادئ الأخلاقية و القانونية للممارسة المهنية في مجال التخصص.
2.1. E-Quality assurance principles related to the good medical practice in Andrology, Sexology and STDs	١-٢ هـ- مبادئ و أساسيات الجودة في الممارسة المهنية في مجال التخصص
2.1. F- Ethical and scientific basics of medical research.	١-٢ و- أساسيات وأخلاقيات البحث العلمي

<p>2.2. A-Correlation of different relevant sciences in the problem solving and management of common diseases of Andrology, Sexology and STDs</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 Andrology, Sexology and STDs</p>	<p>٢-٢-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 Andrology, Sexology and STDs</p>	<p>٢-٢-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 Andrology, Sexology and STDs</p>	<p>٢-٢-ج- الربط بين المعارف المختلفة لحل المشاكل المهنية</p>
<p>2.2. C- Demonstrating systematic approach in studying clinical problems relevant to the Andrology, Sexology and STDs</p>	<p>٢-٢-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,</p>	<p>٢-٢-هـ- تقييم المخاطر في الممارسات المهنية في مجال التخصص</p>

improvements in patient care and risk management	
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	٢-٢-و- التخطيط لتطوير الأداء في مجال التخصص
2.2.D- Making alternative decisions in different situations in the field of Andrology, Sexology and STDs.	٢-٢-ز- اتخاذ القرارات المهنية في سياقات مهنية متنوعة
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 Andrology, Sexology and STDs for patients with common diseases and problems.	٢-٣-أ- إتقان المهارات المهنية الأساسية و الحديثة في مجال التخصص
2.3.C- Write and evaluate reports for Situation related to Andrology, Sexology and STDs.	٢-٣-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 specialty for patients with common diseases and problems.	٢-٣-ج- تقييم الطرق و الأدوات القائمة في مجال التخصص
2.4.D- Demonstrate interpersonal and	٢-٤-أ- التواصل الفعال بأنواعه المختلفة

communication skills that result in effective information exchange and teaming with patients, their families, and other health professionals.	
2.4.A-Demonstrate practice-based learning and improvement skills investigation that involves 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.	٢-٤-ب- استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية
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.E-Demonstrate professionalism behavior, as manifested through a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse	٢-٤-ج- التقييم الذاتي وتحديد احتياجاته التعليمية الشخصية

patient population.	
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.	٢-٤-د- استخدام المصادر المختلفة للحصول على المعلومات و المعارف
2.4. C- Demonstrate skills of teaching and evaluating others.	٢-٤-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.	٢-٤-و- العمل في فريق ، وقيادة فرق في سياقات مهنية مختلفة
2.4.G- Demonstrate skills of effective time management.	٢-٤-ز- إدارة الوقت بكفاءة
2.4.H- Demonstrate skills of self and continuous learning.	٢-٤-ح- التعلم الذاتي و المستمر

**Comparison between ARS and ILOS for master degree in
Andrology, Sexology and STDs.**

(ARS)	(ILOs)
<p><u>2-1- Knowledge and understanding</u> 2-1-A- Established basic, biomedical, clinical, epidemiological and behavioral sciences related conditions, problem and topics.</p>	<p><u>2-1- Knowledge and understanding</u> 2-1-A- Explain the essential facts and Principles of relevant basic sciences including Research methodology and Statistics ,Ethics in scientific research, Medical Microbiology and Immunology, Anatomy and Embryology and Clinical Pathology related to Andrology, Sexology and STDs.</p> <p>2-1-B- Mention <u>essential facts</u> of clinically supportive sciences including General Surgery, Psychiatry related to Andrology, sexology and Psychosexual Disorders and Internal Medicine related to Andrology, Sexology and STDs.</p> <p>2-1-C- Demonstrate sufficient knowledge of etiology, clinical picture, diagnosis, prevention and treatment of the common diseases and situations related to Andrology, Sexology and STDs.</p>
<p>2-1-B The relation between good clinical care of common health problem in <i>Andrology, Sexology and STDs</i> and the welfare of society.</p>	<p>2-1-H- State the impact of common health problems in <i>Andrology, Sexology and STDs</i> on the society and how good clinical practice improve these problems.</p>
<p>2-1-C- Up to date and recent developments in common Problems related to <i>Andrology, Sexology and STDs</i></p>	<p>2-1-C- Demonstrate sufficient knowledge of etiology, clinical picture, diagnosis, prevention and treatment of the common diseases and situations related to <i>Andrology, Sexology and STDs</i></p> <p>2-1-D- Give the recent and update</p>

	developments in the pathogenesis, diagnosis, prevention and treatment of common diseases related to <i>Andrology, Sexology and STDs</i>
2-1-D- Ethical and medico legal Principles relevant to practice in <i>Andrology, Sexology and STDs</i>	2-1-E- Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to <i>Andrology, Sexology and STDs</i>
2-1-E- Quality assurance principles related to the good medical practice in <i>Andrology, Sexology and STDs</i>	2-1-F- Mention the basics and standards of quality assurance to ensure good clinical practice in <i>Andrology, Sexology and STDs</i>
2-1-F- Ethical and scientific basics of medical research.	2-1-G- Mention the ethical and scientific principles of medical research methodology.
<u>2-2- Intellectual skills:</u> 2-2-A-Correlation of different relevant sciences in the problem solving and management of common diseases of the <i>Andrology, Sexology and STDs</i> .	<u>2-2- Intellectual skills:</u> 2-2-A- Correlate the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases of the <i>Andrology, Sexology and STDs</i> .
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>Andrology, Sexology and STDs</i> .	2-2-B- Demonstrate an investigatory and analytic thinking approach (problem solving) to common clinical situations related to <i>Andrology, Sexology and STDs</i> .
2-2-C- Demonstrating systematic approach in studying clinical problems relevant to the <i>Andrology, Sexology and STDs</i> field.	2-2-C- Design and /or present a case or review (through seminars/journal clubs.) in one or more of common clinical problems relevant to the <i>Andrology, Sexology and STDs</i> field.
2-2-D Making alternative decisions in different situations in the field of the <i>Andrology, Sexology and STDs</i> .	2-2-D- Formulate management plans and alternative decisions in different situations in the field of the <i>Andrology, Sexology and STDs</i> .

continuous (ARS)	continuous (ILOs)
<p><u>2-3- Clinical skills:</u></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 that <i>Andrology, Sexology and STDs</i> for patients with common diseases and problems.</p>	<p><u>2/3/1/Practical skills (Patient Care :)</u></p> <p>2-3-1-A- Obtain proper history and examine patients in caring and respectful behaviors.</p> <p>2-3-1-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>Andrology, Sexology and STDs</i></p> <p>2-3-1-C- Carry out patient management plans for common conditions related to <i>Andrology, Sexology and STDs</i></p> <p>2-3-1-D- Use information technology to support patient care decisions and patient education in common clinical situations related to <i>Andrology, Sexology and STDs</i>.</p> <p>2-3-1-E- Perform competently non invasive and invasive procedures considered essential for the <i>Andrology, Sexology and STDs</i>.</p> <p>2-3-1-F- Provide health care services aimed at preventing health problems related to <i>Andrology, Sexology and STDs</i>.</p> <p>2-3-1-G- Provide patient-focused care in common conditions related to <i>Andrology, Sexology and STDs</i> while working with health care professionals, including those from other disciplines.</p>
<p>2-3-C- Write and evaluate reports for situations related to the field of <i>Andrology, Sexology and STDs</i>.</p>	<p>-3-1-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).</p>

<p><u>2-4- General skills</u></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><u>2/3/2 General skills</u></p> <p>2-3-2-A- Perform practice-based improvement activities using a systematic methodology (share in audits and risk management activities and use logbooks).</p> <p>2-3-2-B- Appraises evidence from scientific studies.</p> <p>2-3-2-C- Conduct epidemiological studies and surveys.</p>
<p>2-4-B- Use all information sources and technology to improve his practice.</p>	<p>2-3-2-C- Conduct epidemiological studies and surveys.</p> <p>2-3-2-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.</p>
<p>2-4-C- Demonstrate skills of teaching and evaluating others.</p>	<p>2-3-2-E- Facilitate learning of students other health care professionals including their evaluation and assessment.</p>
<p>2-4-D- Demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their families, and other health professionals.</p>	<p>2-3-2-F- Maintain therapeutic and ethically sound relationship with patients.</p> <p>2-3-2-G- Elicit information using effective nonverbal, explanatory, questioning, and writing skills.</p> <p>2-3-2-H- Provide information using effective nonverbal, explanatory, questioning, and writing skills.</p> <p>2-3-2-I- Work effectively with others as a member of a health care team or other professional group.</p>

<p>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.</p>	<p>2-3-2-J- Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society.</p> <p>2-3-2-K- Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, business practices.</p> <p>2-3-2-L-Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.</p>
<p>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.</p>	<p>2-3-2-M-Work effectively in relevant health care delivery settings and systems including good administrative and time management</p> <p>2-3-2-N- Practice cost-effective health care and resource allocation that does not compromise quality of care.</p> <p>2-3-2-O- Assist patients in dealing with system complexities.</p>
<p>2-4-G- Demonstrate skills of effective time management</p>	<p>2-3-2-M-Work effectively in relevant health care delivery settings and systems including good administrative and time management</p>
<p>2-4-H- Demonstrate skills of self and continuous learning.</p>	<p>2-3-2-A- Perform practice-based improvement activities using a systematic methodology (share in audits and risk management activities and use logbooks).</p>

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 - Research methodology and Statistics	✓							
Course 2 : - Ethics in scientific research	✓							
Course 3 Medical Microbiology and Immunology	✓							
Course 4: Anatomy and Embryology	✓							
Course 5 Clinical Pathology	✓							
Course 6 General surgery	✓	✓	✓	✓	✓			
Course7: - Psychiatry related to andrology, sexology and Psychosexual Disorders	✓	✓	✓	✓	✓			
Course 8: Internal Medicine	✓	✓	✓	✓				
Course 9: Andrology, Sexology and STDs	✓	✓	✓	✓	✓	✓	✓	✓

Intellectual Skills

Course	Program covered ILOs			
	2/2/A	2/2/B	2/2/C	2/2/D
Course 1 - Research methodology and Statistics	✓	✓		
Course 2 : - Ethics in scientific research	✓	✓		
Course 3 Medical Microbiology and Immunology	✓	✓		
Course 4: Anatomy and Embryology	✓	✓		
Course 5 Clinical Pathology	✓	✓		
Course 6 General surgery	✓	✓	✓	✓
Course7: - Psychiatry related to andrology, sexology and Psychosexual Disorders	✓	✓	✓	✓
Course 8: Internal Medicine	✓	✓	✓	✓
Course 9: Andrology, Sexology and STDs	✓	✓	✓	✓

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: Research methodology and Statistics				✓	✓			
Course 2 : Ethics in scientific research				✓	✓			
Course 3 Medical Microbiology and Immunology				✓	✓			
Course 4: Anatomy and Embryology					✓			
Course 5 Clinical Pathology				✓	✓			
Course 6 General surgery	✓	✓	✓				✓	
Course 7 - Psychiatry related to andrology, sexology and Psychosexual Disorders	✓	✓	✓		✓		✓	
Course 8 internal medicine	✓	✓	✓				✓	
Course 9 Andrology, Sexology and STDs	✓	✓	✓	✓	✓	✓	✓	✓

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: Research methodology and Statistics		✓		✓	✓		✓	✓
Course 2 : Ethics in scientific research		✓		✓	✓			
Course 3: Medical Microbiology and Immunology		✓		✓	✓		✓	✓
Course 4: Anatomy and Embryology		✓		✓	✓		✓	✓
Course 5 : Clinical pathology		✓		✓	✓		✓	✓
Course 6 General surgery	✓	✓	✓	✓	✓	✓	✓	✓
Course 7- Psychiatry related to andrology, sexology and Psychosexual Disorders		✓		✓	✓		✓	✓
Course 8: Internal medicine	✓	✓	✓	✓	✓	✓	✓	✓
Course 9: Andrology, Sexology and STDs	✓	✓	✓	✓	✓	✓	✓	✓

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: Research methodology and Statistics		✓		✓	✓		
Course 2 : Ethics in scientific research		✓					
Course 3: Medical Microbiology and Immunology		✓		✓	✓		
Course 4: Anatomy and Embryology		✓		✓	✓		
Course 5 : Clinical pathology	✓	✓	✓	✓	✓	✓	✓
Course 6 General surgery	✓	✓	✓	✓	✓	✓	✓
Course 7: Psychiatry related to andrology, sexology and Psychosexual Disorders		✓		✓	✓		
Course 8: Internal medicine	✓	✓	✓	✓	✓	✓	✓
Course 9 Andrology, Sexology and STDs	✓	✓	✓	✓	✓	✓	✓

Annex 7 Additional Information

* Staff members:

Dermatology, Venereology and Andrology Department			
Academic degree	Members	Mobile	Home Tel
Head of Department			
	Hatem Zidan Mohammed		
Dermatology, Venereology and Andrology Department			
Emeritus Professor	<u>Kamal Mohamed Abdel-Hafez Mohamed Hussein</u>		
Emeritus Professor	<u>Insaf Mohamed Abdel-Majid Khalil</u>		
Emeritus Professor	<u>Ahlam Abdullahtif Fahmi</u>		
Professor	<u>Alaa El-Din Hasan Abdel-Aal Hasan Mobasher</u>		
Professor	<u>Najwa Issa Abdel-Azim Salim</u>		
Professor	<u>Azza Mahfouz Abdel-Majeed Fahmy</u>		
Professor	<u>Ahmed Mostafa Abdel-Rahman Mahmoud Darwish</u>		
Professor	<u>Hatem Zidan Mohamed Abdel-Razek</u>		
Professor	<u>Mohamed Issam El-Din Mohamed Ali</u>		
Professor	<u>Iman Riad Mohamed Hanafy Othman</u>		
Professor	<u>Dalia Abdel-Aziz Ahmed Atallah</u>		
Professor	<u>Hisham Zian Abdel-Hafez Ibrahim</u>		
Assistant Professor	<u>Ayman Mohamed Mohamed Mahran</u>		
Lecturer	<u>Fathia Ali Ibrahim Mahgraby</u>		
Lecturer	<u>Osama Mohamed Hasan Soliman</u>		
Assistant Professor	<u>Sahar Abdel-Moez Ahmed Ismail</u>		
Assistant Professor	<u>Emad El-Din Kamal Ibrahim</u>		
Assistant Professor	<u>Doaa Samir Sayed Mohamed Abdel-Kader</u>		
Assistant Professor	<u>Iman Mohamed Kamal El-Sayed Yousef</u>		
Professor	<u>Ali Mohamed Abdel-Rahman Mahran</u>		
Professor	<u>Emad Abdel-Rahim Taha Obeid</u>		
Assistant Professor	<u>Amira Ali Abdel-mottaleb Hussein</u>		

Assistant Professor	<u>Hisham Diab Jaber Diab</u>		
Assistant Professor	<u>Hanan Ahmed Morsy Abdel-Jalil</u>		
Lecturer	<u>Reham Maher Abdel-Gabr Abdel-Nasser</u>		
Lecturer	<u>Ahmed Abdel-Aal Abdel-Majid Abdel-Aal</u>		
Lecturer	<u>Sara Mohamed Ibrahim Ahmed Awad</u>		
Lecturer	<u>Doaa Ahmed El-Sayed Abo Taleb</u>		
Lecturer	<u>Radwa Mohammed Abdel-Moneim Bakr</u>		

Program Time Table ^{\$}																																				
Course/ Module Title/ILOs	1 st year												2 nd year												3 rd year											
	1 st 6 months						2 nd 6 months						1 st 6 months						2 nd 6 months						1 st 6 months						2 nd 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																																				
Thesis																																				

^{\$} mark and/or color the cells as appropriate according to different modules (courses) teaching methods and requirements

Comparison of provision to selected external references.

In table

Comparison between program and external reference		
Item	Andrology, Sexology, and STDs program	The degree of andrology offered by German Federal Medical Board (Facharzt Andrologie).
Goals	Matched	Matched
ILOS	Matched	Matched
Duration	3-5 years	3 years
Requirement	Different	different
Program structure	Different	different
Out patient skills	Gained as part of Dermatology module & Andrology module not as a separate course.	Gained as part of Dermatology and Dermatopathology as a separate course.