



Faculty of Medicine Quality Assurance Unit

Medical Doctorate (M.D.) Degree Program and Courses Specifications for Andrology, Sexology and Sexually transmitted diseases

(According to currently applied Credit point bylaws)

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

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Assiut University Faculty of Medicine Quality Assurance Unit (QAU)

M. D. degree of Andrology, Sexology and Sexually transmitted diseases

A. Basic Information

- **♣** Program Title: Andrology, Sexology and Sexually transmitted diseases
- Nature of the program: Single.
- Responsible Department: : Department of Dermatology, Venereology & Andrology
- Program Academic Director (Head of the Department):

Prof. Dr./ Prof. Dr. Eman Riyad

Coordinator (s):

- - Principle coordinator: Dr/ Emad El Dien Kamal.

-Assistant coordinator (s)

- Dr /Ali Mahran
- ♣ Internal evaluators: Prof Dr Hatem Zedan Mohammed, Asyut 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: 11 courses

First part: 7courses.

Second part: one course.

Elective courses: 2 courses

B. Professional Information

1- Program aims

- 1/1. Enable the candidates to keep in depth with the professional international standards of Patient care concerned with andrology sexology and sexually transmitted diseases by achieving high levels of:
 - a- Professional Clinical skills including Patient care .
- b- Sophisticated common and uncommon Surgical maneuvers related to andrology sexology and sexually transmitted. Skills; such as: Varicocelectomy, Epididymo-Vasostomy, penile prosthesis in different circumstances and clinical situations etc.
- 1/2. Provide a professional training framework in depth to attain professional skills and Attitudes needed to practice andrology and to fulfill the required Specifications of the academic scientific degrees offered by the department.
- 1/3. Enable them to start well qualified professional careers subspecialist as qualified consultant in Egypt.
- 1/4. Make them recognized as sophisticated and qualified consultant abroad.
- 1/5. Enable them to pursue and master higher skills of scientific studies and degrees.
- **1/6.** To enable candidates to perform high standard qualified scientific medical research and how to proceed with publication in indexed medical journals.
- 1/7. Enabling them to master different research methodology and do their own.

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

2/1Knowledge and understanding:

A. Demonstrate in-depth knowledge and understanding of theories, basics and updated biomedical, clinical epidemiological and socio – behavioral science relevant to his Speciality as well as the evidence – based application of this knowledge to patient care.

- B. Explain basics, methodology, tools and ethics of scientific medical, clinical research.
- C. Mention ethical, medico logical principles and bylaws relevant to his practice in Andrology, sexology and Sexually transmitted diseases (STDs).
- D. Mention principles and measurements of quality assurance and quality improvement in medical education and in clinical practice of Andrology, Sexology and Sexually transmitted diseases (STDs).
- E. Mention health care system, public health and health policy, issues relevant to this Speciality and principles and methods of system based improvement of patient care in common health problems of the field of Andrology, Sexology and Sexually transmitted diseases (STDs).

2/2 Intellectual outcomes

- A. Apply the basic and clinically supportive sciences which are appropriate to the Andrology related conditions / problem / topics.
- B. Demonstrate an investigatory and analytic thinking "problem solving "approaches to clinical situation related to Andrology.
- C. Plan research projects.
- D. Write scientific papers.
- E. Participate in clinical risk management as a part of clinical governance.

- F. Plan for quality improvement in the field of medical education and clinical practice in his Speciality.
- G. Create / innovate plans, systems, and other issues for improvement of performance in his practice.
- H. Present and defend his / her data in front of a panel of experts.
- I. Formulate management plans and alternative decisions in different situations in the field of the Andrology.

2/3 Skills

2/3/1 Practical skills (Patient Care)

A .Provide extensive level of patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health. Extensive level means in-depth understanding from basic science to evidence based clinical application and possession of skills to manage independently all problems in andrology, sexology and STDs.

- B. provides extensive level of patient care for patients with all common diagnoses and for uncomplicated procedures in andrology, sexology and STDs.
- C. provides extensive level of patient care for non-routine, complicated patients and under increasingly difficult circumstances, while demonstrating compassionate, appropriate and effective care.
- D. Perform diagnostic and therapeutic procedures considered essential in andrology, sexology and STDs.
- E. Handles unexpected complications, while demonstrating compassion and sensitivity to patient needs and concerns.
- F. Communicate effectively and demonstrate caring and respectful behaviors when interacting with patients and their families in andrology, sexology and STDs related situations.
- G, Gather essential and accurate information about patients of andrology, sexology and STDs related conditions.
- H. Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence and clinical judgment for andrology, sexology and STDs related conditions.

- I. Develop and carry out patient management plans for andrology, sexology and STDs related conditions.
- J. Counsel and educate patients and their families about specialty related conditions.
- K. Use information technology to support patient care decisions and patient education in all andrology, sexology and STDs related clinical situations.
- L. Perform competently all medical and invasive procedures considered essential for andrology, sexology and STDs related conditions / area of practices.
- M. Provide health care services aimed at preventing andrology, sexology and STDs related health problems.
- N. Lead health care professionals, including those from other disciplines, to provide patient-focused care in andrology, sexology and STDs related conditions.
- O. Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets. (Write and evaluate a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and evaluating comprehensive, timely and legible 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. Demonstrate the competency of continuous evaluation of different types of care provision_to patients in the different area of his field
- B. Appraise scientific evidence.
- C. Continuously improve patient care based on constant selfevaluation and <u>life-long learning</u>.

- D. Participate in clinical audit and research projects.
- E. Practice skills of evidence-based Medicine (EBM).
- F. Educate and evaluate students, residents and other health professionals.
- G.Design logbooks.
- H.Design clinical guidelines and standard protocols of management.
- I. Appraise evidence from scientific studies related to the patients' health problems.
- J. Apply knowledge of study designs and statistical methods to the appraisal of clinical studies.
- K. Use information technology to manage information, access online medical information; for the important topics.

Interpersonal and Communication Skills

- L. Master interpersonal and communication skills that result in the effective <u>exchange of information and collaboration</u> with patients, their families, and health professionals, including:-
 - Present a case.
 - Write a consultation note.
 - <u>Inform patients</u> of a diagnosis and therapeutic plan completing and maintaining comprehensive.
 - Timely and legible medical records.
 - Teamwork skills.

- M. Create and sustain a therapeutic and ethically sound relationship with patients.
- N. Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.
- O. Work effectively with others as a member or leader of a health care team or other professional group.

Professionalism

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

Systems-Based Practice

- S. Work effectively in health care delivery settings and systems related to Andrology, sexology and STDs including good administrative and time management.
- T. Practice cost-effective health care and resource allocation that does not compromise quality of care.
- U. Advocate for quality patient care and assist patients in dealing with system complexities.

- V. Design, monitor and evaluate specification of under and post graduate course and programs.
- W. Act as a chair man for scientific meetings including time management.
 - 3- Program Academic Reference Standards (ARS) (Annex 2)

Academic standards for Medical Doctorate (MD) degree in Andrology, Sexology and Sexually transmitted diseases (STDs)

Assiut Faculty of Medicine developed MD 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 20/3/2010. These standards were revised and approved without changes by the Faculty Council on 23-9-2014. These standards were recently revised and reapproved without changes by the Faculty Council on 27-11-2022.

4- Program External References (Benchmarks)

- 1. ACGME (Accreditation Council for Graduate Medical Education).
- 2-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%20ass ociation%20of,the%20area%20of%20male%20health.

3-Area of Sexual medicine: (The program offered by the International society of Sexual Medicine).

4-Area of STDs: (Specialty training curriculum For genito-urinary medicine, Joint Royal Colleges of Physicians Training Board UK).

5-The program also matches the degree of Andrology offered by German Federal Medical Board (Facharzt Andrologie).

6-Medical Doctorate Degree of Andrology offered by T Andrology Department, Faculty of Medicine, Suez canal university.

7-Medical Doctorate Degree of Andrology offered by Andrology Department, Faculty of Medicine, Cairo University.

5- Program Structure

A. Duration of program: 4-6 years

B. Structure of the program:

Total number of credit points: = 420 CP

Master degree: 180 credit point

Didactic #: 37 (23.1%), practical 123 (76.9%), total 160 CP

Thesis and researches: 80 CP (33.3%)

First part

Didactic 10 (100%), practical 0 (0 %), total 10 CP

Second part

Didactic 24, (16.3 %), practical 123 (83.7 %), total 147 CP

Elective courses: 3 credit points

#Didactic (lectures, seminars, tutorial)

According the currently applied bylaws:

Total courses: 160 credit point

Compulsory courses: 157 credit point (98.1%)

Elective courses: 3 credit point (1.9%)

	Credit point	% from total	
Basic science courses	10	4.1%	
Humanity and social courses	3	1.2%	
Speciality courses	147	61.3%	
Others (Computer,)	-	0	
Field training	123	51.3%	
Thesis	40	16.7%	
2 published researches	40	16.7%	
Master degree	180		

C- Program Time Table

Duration of program 4 years (could be extended at maximum to 6 years) divided into :

o Part 1:

Program-related basic science courses

Students are allowed to sit the exams of these courses after 6 months from applying to the M D degree.

Students are allowed to sit the exams of the remaining basic science courses after 12 months from applying to the MD degree.

Thesis and 2 published researches
 For the M D thesis;

MD thesis subject should be officially registered within 1 year from application to the MD degree,
Discussion and acceptance of the thesis should not be set before 24 months from registering the M D subject;
It could be discussed and accepted either before or after passing the second part of examination

o Part 2

Program –related speciality courses and ILOs Students are not allowed to sit the exams of these courses before 4 years from applying to the MD degree.

Two elective courses can be set during either the 1st or 2nd parts.

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

Total degrees 1700 marks.

500 marks for first part

1200 for second part

Written exam 40% - 70%.

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

D- Curriculum Structure: (Courses):

Levels and courses of the program:

Courses	Course Core Credit points			
	Code	Lectures(training	Total
		Didactics)		СР
First Part				
Essential Courses (10 CP)				
Course 1: Medical statistics	FAC309A	1	-	1
Course 2:Research methodology Course 3:	FAC309B	1	-	1
Medico-legal Aspects and Ethics in	FAC310C	1	-	1
Medical Practice and Scientific Research				
Course 4:Surgical Anatomy	AVS321A	1		1
Course 5:General Surgery Advanced	AVS311	1	1	2
Course 6:Clinical Pathology Advanced	AV3311	_	_	
&Medical Microbiology and	AVS321B#	1+1	-	1+1
Immunology advanced				
Course 7:Psychiatry and Psychosexual	AVS320	0.75	0.25	1
Disorders advanced				
Course 8:Internal medicine advanced	AVS318	0.5	0.5	1
Total CP				10
Elective courses*				
Elective course 1		1.5		1.5
Elective course 2		1.5		1.5
				3
Thesis				40
Published researches**				40
Second Part:				
Specialized courses				

Specialized Courses:	VSA321C	24	123	147
Course 9:Advanced andrology				
,sexology and sexually				
transmitted diseases				
- Unit 1: Male reproductive Medicine and Surgery (Advanced)		5	30	35
- Unit 2: Assisted Reproduction (Advanced)		4	10	14
- Unit 3: Sexual Medicine and		5	29	34
Surgery (Advanced) - Unit 4: Sexually transmitted		5	29	34
diseases (STDs)(Advanced)Unit 5 : Andrology RelatedDisorders(Advanced)		5	25	30
Total				240

#Didactic (lectures, seminars, tutorial)

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#:

- -Evidence based medicine.
- Advanced infection control.
- Quality assurance of medical education.
- -Hospital management
- Scientific Writing
- Communication Skill

Two of the above mentioned courses are prerequisites for fulfillment of the degree.

3. Thesis / Researches:

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

^{*} Elective courses can be taken during either the 1st or 2nd parts.

**Another 40 points are appointed to acceptance or publication of one research from the thesis in international indexed medical journals or publication of 2 researches from the thesis in local specialized medical journals.

6. Courses Contents (Annex 1)

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

See Annex 1 for detailed specifications for each course/ module

Annex 6 II: Program Matrix

7-Admission requirements



Admission Requirements (prerequisites) if any:

- I. General Requirements:
 - Master degree in Andrology, Sexology and STDs.
- **II. Specific Requirements:**
 - Fluent in English (study language)

VACATIONS AND STUDY LEAVE

The current departmental policy is to give working residents 2-4 week leave prior to first/ second part exams.

FFFS:

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 (Medical statistic, Research methodology and Medicolegal Aspects and Ethics in Medical Practice and Scientific Research) could be set at 6 months from registering to the MD degree.
- ♣ Students are allowed to sit the exams of the remaining essential courses of the first part after 12 months from applying to the MD degree.
- Examination of the second part cannot be set before 4 years from registering to the degree.
- ♣ Discussion of the MD thesis could be set after 2 years from officially registering the MD subject, either before or after setting the second part exams.
- ♣ The minimum duration of the program is 4 years.

The students are offered the degree when:

- 1. Passing the exams of all basic science, elective and speciality courses of this program as regulated by the post graduates approved rules by the faculty council.
- 2. Completing all scheduled CP and log book (minimum 80%).
- 3. Discussion and acceptance of the MD thesis.
- 4. Acceptance or publication of one research from the thesis in international indexed medical journals or publication of 2 researches from the thesis in local specialized medical journals.

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:

weighting of assessments:					
Courses	_		Degr		
First Part	Course	Written	Oral	Practical/	Total
	Code	Exam	*	clinical	
				Exam	
Basic science Courses:					
Course 1&2:Medical	FAC309A	70(35+35)	30(15+15)	-	100
Statistics& Research	+				(50+
methodology(time:2h)	FAC309B			-	50)
Course 3 Medicolegal Aspects	FAC310	35	15	-	50
and Ethics in Medical Practice and Scientific					
Research(time:1h)					
Course4: Surgical	VSA321A	25	25	_	50
Anatomy(time:1h)	75,1521,1				
Course5: General Surgery	VSA311	50	50	-	100
Advanced(time:2h)					
Course6: Clinical Pathology	VSA321B	40	20		100
Advanced &Medical	#				
Microbiology and		40	(10+10)		(50.50)
Immunology		40	(10+10)		(50+50)
advanced(time:2h;1h+1h)					
Course 7&8: Psychiatry	VSA320	30	20	-	50
and Psychosexual	+				
Disorders advanced &		20	15	15	50
Internal medicine	VSA318	20	12	12	30
advanced(time:1h+1h)	737310				
Total					500
Second Part				•	
Specialized Courses	Course	written	Oral	clinical	Total
	code				
Course 9: Advanced	VSA321C	500	400	300	1200
andrology ,sexology and					
sexually transmitted					
diseases (STDs)					
Unit1; Male		150			

reproductive Medicine and Surgery(Advanced) &Unit 2: Assisted			
Reproduction(Advanced)			
(time 3h)			
Unit3: Sexual Medicine	125		
and Surgery(Advanced)			
time 3h)			
Unit4: Sexually transmitted	125		
diseases STDs(Advanced)			
time 3h)			
Unit5: Andrology related	100		
disorders(Advanced) time			
3h)			
Elective courses(2courses)	100	100	200
Total			1700

^{* 25%} of the oral exam for assessment of logbook

Total degree 1900

500 marks for first part

1200 for second part

Written exam 46.8%

Clinical/practical and oral exams 53.1%

Lesson Examination system:

> First part:

- Written exam 2 hours in Medical Statistics and Research Methodology + oral examination
- Written exam 1 hours in Medicolegal Aspects and Ethics in Medical Practice and Scientific Research + oral examination
- Written exam (1 hour in time) in Surgical Anatomy + Oral exam
- Written exam (2 hours in time) in General Surgery
 Advanced + clinical exam +Oral exam.

- Written exam (2 hours in time) in Clinical Pathology Advanced & Medical Microbiology and Immunology advanced + Oral exam.
- Written exam (2 hours in time) in Psychiatry and Psychosexual Disorders advanced & Internal medicine advanced+ clinical exam +Oral exam

> Second part:

 Written exam four papers as one paper (3 hours in time) for each in 5units; in Male reproductive Medicine and Surgery& Assisted Reproduction (1 paper), Sexual Medicine and Surgery (1paper), STDs (1paper) and Andrology Related Disorders (1 paper) + Oral exam+ Clinical exam.

> Elective courses

- Written exam one paper 1 hour in Elective course 1 + Oral
 & Practical exam
- Written exam one paper 1 hour in Elective course 2 + Oral
 & Practical exam

10-Program evaluation

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

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

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 Emad El Dien Kamal. Dr Ali Mahran		
Head of the Responsible	Prof Dr/Eman Riad		

Department (Program		
Academic Director):		
•		

Annex 1, Specifications for Courses / Modules

Annex 1: specifications for courses/ modules

Course 1: Medical statistics and Research Methodology Unit 1: Medical statistics

- Name of department: Public Health and Community Medicine
- Faculty of medicine
- Assiut University
- **2022-2023**

I. Course data

- Course Title: Medical statistics
- Course code: FAC309A
- **♣** Specialty: offered to all clinical and academic specialties
- Number of points: 1 CP
 - **♣ Department (s) delivering the course:** Pubic Health and Community Medicine
- Coordinator (s):
 - Course coordinator: According to Departmental councils
- Date last reviewed: 2022
- Requirements (prerequisites) if any :
 - Completed Master degree in any of the academic or clinical departments of Medicine.

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

2. Course Aims

2/1-Enable graduate students to use statistical principles to improve their professional work and develop the concept of critical interpretation of data

3. Course intended learning outcomes (ILOs):

A-Knowledge and understanding

A- Knowledge and understanding

ILOS	Methods of	Methods of
	teaching/ learning	Evaluation
A. List the types of variables	Lecture and discussion	Written examination
B. Identify the methods of data collection	Lecture and discussion	Written examination
C. Describe the different sampling strategies	Lecture and discussion	Written examination
D. Identify types of tabular and graphic presentation of data	Lecture and discussion	Written examination
E. Identify measures of central tendency and dispersion	Lecture and discussion	Written examination
F. Identify the characters of normal	Lecture and discussion	Written examination

distribution curve.	

B. intellectual Skills

ILOs	Methods of teaching/ Learning	Methods of Evaluation
A. Describe the normal curves.	Lecture& Discussions	Written examination
B. Describe and summarize data	Lecture& Discussions	Written examination
C. Select the proper test of significance	Lecture& Discussions	Written examination
D. Interpret the proper test of significance	Lecture& Discussions	Written examination

C. Practical skills

ILOs	Methods of teaching/ Learning	Methods of Evaluation
A. Design data entry files.	Tutorial on SPSS	Assignments SPSS exam
B. Validate data entry.	Tutorial on SPSS	Assignments SPSS exam
C. Manage data files.	Tutorial on SPSS	Assignments SPSS exam
D. Construct tables and graphs.	Tutorial on SPSS	Assignments SPSS exam
E. Calculate measures of central tendency and dispersion.	Tutorial on SPSS	Assignments SPSS exam

D. General skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Appraise scientific evidence	Discussions	Research assignment
B. Use information technology to manage information, access online medical information; for the important topics.	tutorial	Research and audits' assignment

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

Time Schedule: First Part

Topic Covered ILOs				
Topic	Knowledge A	Intellectual B	Practical skills	General Skills D
Introduction	A-F	A-D	-	A&B
Tables and graphics	D	A-D	-	A&B
Sampling	С	-	-	A&B
Methodology of data collection	В	-	-	A&B
Type of variables	A	-	-	A&B
Proportion test& Chi-square test	E,F	C&D	-	A&B
Student T test& Paired T test	E,F	C&D	F	A&B

ANOVA test	E,F	C&D	F	A&B
Non parametric tests	E,F	C&D	F	A&B
Discrimination analysis factor analysis	E,F	C&D	-	A&B
SPSS Introduction	A-F	A-D	-	A&B
Data entry and cleaning of data	A	A-D	A-C	A&B
Transforming of variables	A	A&B	A-C	A&B
Descriptive statistics	D	A-D	D&E	A&B
Graphic presentation	D	A&B	D	A&B
Chi square and interpretation of results	E,F	C&D	F	A&B
Correlation Regression	E,F	C&D	F	A&B
Multiple and logistic	E,F	C&D	F	A&B
Regression				

5. Course Methods of teaching/learning:

- 1. Lectures
- 2. Assignments
- 3. Discussions
- 4. Exercises
- 5. Tutorial on SPSS v.16
- 6. Course Methods of teaching/learning: for students with poor achievements
- 1. Lectures
- 2. Assignments
- 3. Extra Discussions

- 4. Extra Exercises
- 5. Tutorial on SPSS v.16

7. Course assessment methods:

- i. Assessment tools:
 - 1. Practical examination
 - 2. Attendance and active participation
 - 3. Assignments
 - 4. SPSS examination
 - 5. written exam
- ii. Time schedule: After 6 months from applying to the M D

degree.

iii. Marks: 50

8. List of references

i. Lectures notes

Department lecture notes

ii. Essential books

Medical statistics

iii. Recommended books

Discovering statistics using SPSS

Periodicals, Web sites, etc

9. Signatures

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

Course 2; Research Methodology

Name of department: Department of Dermatology, Venereology & Andrology

Faculty of medicine

Assiut University

2022-2023

1. Course data

- Course Title: Research methodology
- Course code: FAC309B
- Specialty: Offered to all clinical and academic specialties
- Number of credit points: 1 credit point
- Department (s) delivering the course: Department of public health
- Coordinator (s):
 - Course coordinator: : According to Departmental councils
- Date last reviewed: 2022
- Requirements (prerequisites) if any :
 - ➤ Completed Master degree in any of the academic or clinical departments of Medicine.

2. Course Aims

To provide graduate students with the skills of:

- Research proposal,
- Writing planning and implementing rigorous research,
- Writing and publishing scientific papers.

3. Intended learning outcomes (ILOs):

To be able to write a rigorous research proposal

A. knowledge and understanding

ILOs	Methods of teaching/ Learning	Methods of Evaluation
A. Explain differences between	Lecture and	Written
different study designs	discussion	examination
B. Identify sources and types of bias		
in research		
C. Describe the different sampling		
strategies, and compute sample		
size		
D. Select and design valid		
measurement tools for research		
E. Explain ethical issues in		
conducting research on human		
subjects		

F. describe the rules of authorship in scientific writing G. List the steps involved in proposal writing		
H. Identify a research problem within a conceptual framework	Lecture on Criteria to Consider to identify a research problem	Discussion
I. Use the web sources to do a literature search	Practical tutorial on web	Assignment
J. Select the appropriate study design for the research question	Lecture on various study designs	Written examination
K. Minimize bias in designing research	Lecture on the different types of bias	Written examination
L. Screening & theoretical background	Lectures on criteria for successful screening program& criteria for evaluation a screening test.	Written examination

B. intellectual skills

Competency and Skills	Methods of teaching/ Learning	Methods of Evaluation
A. Apply basic science & knowledge	Discussions	Written
(PP-)	&seminars	examination

for appraising scientific literature	

C. Practical skills

Competency and Skills	Methods of teaching/ learning	Methods of Evaluation
A. Develop a budget and time line for the research	Tutorial	Assignments
B. Design a data entry file	Tutorial on Epi- info or Excel	Assignments Written exam
C. Identify steps required in fielding the study	Lecture	Assignments Written exam
D. Identify steps required for calculation Sensitivity, Specificity, positive predictive value, negative predictive value, Accuracy of a screening test	Lecture	Assignments Written exam

D. general skills

Practice based learning improvement & professionalism

(Scientific Paper writing skills)

Competency and Skills	Methods of teaching/ learning	Methods of Evaluation
A. To be able to write an abstract	Tutorial	Written examination case study for critique
B. Write the introduction	Tutorial	Written examination
C. Write the methodology section	Tutorial	Written examination

D. Present the results	Tutorial	Written examination
E. Perform Discussion section	Tutorial	Written examination
F. Learn Authorship ethical rules	Tutorial	Written examination

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

Time Schedule: First Part

Topic	Covered ILOs			
		Intellectual	Practical skills	General Skills
	A	В	C	D
Introduction & proposal writing	G	А	А	A-F
Epidemiological Study designs	A,J	А	В,С	-
Screening & theoretical background	L	А	-	-
Screening practical	L	Α	D	-
Sample size calculation	В	Α	В,С	-
Research bias	Н	А	С	F
Ethics in research	E,F	А	С	F

5. Course Methods of teaching/learning:

- 1. Lectures
- 2. Assignments
- 3. Discussion
- 4. Exercises

6. Course assessment methods:

i. Assessment tools:

- 1. Written examination
- 2. Attendance and active participation
- 3. Class
- 4. Assignments
- **ii. Time schedule:** After 6 months from applying to the M D degree.
- iii. Marks: 50 marks.

7. List of references

i. Lectures notes

Department lecture notes

ii. Essential books

 An epidemiologic Approach to Reproductive Health, CDC, FHI, and WHO Phyllis A. wingo, James E. Higgens, Goerge L. Rubin, and S. Christine Zahniser

iii. Recommended books

- Evidence Based Medicine How to practice and teach EBM.
- David Sachett, Sharon E. Straus, W.Scott Richardson,
 William Rosenberg R.Brain Haynes

iv. Periodicals, Web sites, ... etc

Dissertation workshop open courseware JHSPH

8. Signatures

Course Coordinator:	Head of the Department:
-	-

Date	Date:	

Course 3: Medicolegal Aspects and Ethics in Medical Practice and Scientific Research

Name of department: Forensic medicine and clinical toxicology Faculty of medicine Assiut University

1. Course data

- Course Title: Medicolegal Aspects and Ethics in Medical Practice and Scientific Research
- Course code: FAC310C
- Specialty: Family medicine, Emergency Medicine in Anesthesia and Andrology, Sexology and sexual transmitted disease(1st part).
- Number of credit points: 1 credit point
- Department (s) delivering the course: Forensic Medicine and Clinical Toxicology
- Coordinator (s):
 - Course coordinator:

Prof. Randa Hussein

- Assistant coordinator (s) Assist.

Prof. Heba Attia

- Date last reviewed: January 2022
- Requirements (prerequisites) if any :
 - > Completed Master degree.

2. Course Aims

To describe the basic ethical and medicolegal principles and bylaws relevant to practice in the field of General medicine, Special medicine, Pediatrics, Public health, Oncology and Rheumatology

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.	Lecture and discussion	Oral &Written exam
B. Mention principals of Writing a death certificate	Lecture and discussion	Oral &Written exam
C. Mention principals of diagnosing death.	Lecture and discussion	Oral &Written exam
D. Mention principals of writing toxicological reports and trauma reports.	Lecture and discussion	Oral &Written exam
E. Explain principals of medical reports.	Lecture and discussion	Oral &Written exam
F. List indications and principals of induced emesis, gastric lavage and samples collection.	Lecture and discussion	Oral &Written exam

B. intellectual

Competency and	Methods of	Methods of
Skills	teaching/	Evaluation

	learning	
A. Present case, seminars in death certificate	Lecture and discussion	Oral &Written exam
B. Present case, seminars in toxicological cases	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 death certificate.	Lecture and discussion	Reading Discussion and active participation
E. Deal with a case of Suspicious death	Lecture and discussion	Reading Discussion and active participation
F. Perform gastric lavage, induce emesis, and obtain samples.		
G. Write medical and toxicological reports	Lecture and discussion	Reading Discussion and active participation
H. Develop and carry out patient management plans for Euthanasia, and Organ Transplantation I. Counsel patients and their		

families about specialty	
related conditions including	
Permanent infirmities,	
Euthanasia, and Organ	
Transplantation	

D general skills

Competency and Skills	Methods of teaching/ learning	Methods of Evaluation
A. Present a case.	Lecture and	Global rating
	discussion	logbook
B. Write a consultation note	Lecture and	Global rating
	discussion	logbook
C. Inform patients and	Lecture and	Global rating
maintaining comprehensive.	discussion	logbook
D. Make timely and legible	Lecture and	Global rating
medical records	discussion	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 Skills
	A	В	C	D
 Death and death certificate. 	В,С	A	D,E	A
2. Medical Reports	A		G	A,D,E
3. Toxicological and Trauma reports	D,F	В	G,F	A,E
4. Ethics in research.	A		A	

5. Medical ethics.	Е		A,B,C,H,I	В,С,Е
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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:** After 6 months from applying to the M D degree.
- 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

- Medical Ethics Manual. World medical association.
 Third edition 2015.
- Medical ethics and law. Dominic Wilkinson, 3rd edition 2019.
- Bernard Knight and Pekka Saukko (2015: Knight Forensic Pathology. Hodder Arnold press

iii. Recommended books

- Medical ethics. MC Francis. 3rd edition 2009
- Cambridge textbook of Bioethics 3rd edition 2008
 - Byard, Roger W. Pekka Saukko, Bernard Knight (2015): Knight's forensic pathology 4th ed.CRC Press.
 - Shannon, M. W., Borron, S. W., Burns, M. J., Haddad, L. M., & Winchester, J. F. (2007). Haddad and Winchester's clinical management of poisoning and drug overdose. Philadelphia: Saunders/Elsevier.

- Goldfrank, Lewis R.; Howland, Mary Ann; Hoffman, Robert S.; Nelson, Ewis S.; Lewin, Neal A (2019): Goldfrank's Toxicologic Emergencies, 11th ed. McGraw Hill / Medical.
- Adam Negrusz and Gail Cooper (2013): Clarke's Analytical Forensic Toxicology. 2nd ed. London: Pharmaceutical Press.
- Biswas Gautam (2021): Review of Forensic Medicine & Toxicology. 5th ed. Jaypee Brothers Medical Pub.
- Gilbert Corrigan (2012): Essential Forensic Pathology: Core Studies and Exercises.1st ed. CRC Press.
- Kalipatnapu N. Rao (2012): Forensic Toxicology: Medico-Legal Case Studies. 1st ed. CRC Press.

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.

8. Signatures

- Course Coordinator: Prof. Heba Attia Yassa	- Head of the Department: Prof. Randa Hussein Abdel had	
Prof. Randa Hussein Abdel hady		
Date23-1-2022	Date: 23/1/2022	

Course 4: Surgical Anatomy

Name of department: Dermatology, Andrology and Venereology department.

- Faculty of medicine
- Assiut University
- **2019-2020/2020-2021**

1. Course data

- Course Title: Surgical anatomy Course
- Code:321A

Specialty: Andrology ,sexology and Sexually transmitted diseases

- Number of credit points: 1 credit points (100%); Didactics 1CP(100%); PRACTICAL (O)CP, Total 1CP.
 - Department (s) delivering the course: Department of Dermatology, STDs and Andrology as annually approved by both departments councils.
- Coordinator (s):
 - Course coordinator: As annually approved by departments council.
 - Date last reviewed: 2/2019
 - > Requirements (prerequisites) if any: Completed Master degree.

2. Course Aims

2/1-Provide the advanced data of Anatomy with surgery applied that are necessary for Andrology, Sexology and STDs

As the candidate is able to Master the advanced skills related to the following:

- Male reproductive organs.
- Identification of different details of male pelvic organs.

3. Intended learning outcomes (ILOs):

A- A Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
 A. Describe the Anatomy advances related to advanced Andrology, Sexology and STDs diseases including: Embryology of male reproductive organs -Anatomy of male reproductive and sex organs - Anatomy of male pelvis. 	Lectures Didactics	Written and oral examination Log book
B. Explain the advanced embryology and anatomy of internal and external male genital organs.		
C. Illustrate the following: - The advanced anatomy of male genital organs to outline the diagnosis, treatment, prevention and control of andrological diseases. - The impact of embryology and anatomy.		

B- Intellectual outcomes

ILOs	Methods of	Methods of
	teaching/	Evaluation
	Learning	

A. Correlates the advanced facts of anatomy with clinical reasoning, diagnosis and management of common diseases related to Andrology, Sexology and STDs	Didactic (lectures, seminars, tutorial)	-Written and oral examination
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.		-Log book
C- Report and appraise a concise scientific activity according to standard scientific thinking and integrity.		

C- Practical Skills =0 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	Methods of
	teaching/	Evaluation
	learning	

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
Embryology of internal male genital organs	A	A-D	-	A-E
Embryology of external male genital	A	A-D		A-E
organs				
Anatomy of internal male genital organs	A	A-D		A-E
Anatomy of external male genital organs)	A	A-D		A-E
Anatomy of the male pelvis	A	A-D		A-E
Anatomy of the anterior abdominal wall	A	A-D		A-E

5 module Methods of teaching/learning:

- i. Lectures
- ii. Laboratory work

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

- Lectures
- Laboratory work

7- module assessment methods:

i. Assessment tools:

- Written and oral examination
- Log book
- ii. Time schedule: at the end of $\mathbf{1}^{\text{st}}$ part.
- iii. Marks 50(25+25)

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		
Unit 1 Coordinator:	Head of the Department:	
••••••	•••••	
Date:	Date:	
Unit 2 Coordinator:	Head of the Department:	
••••••	••••••	
Date:	Date:	

Course 5:General Surgery Advanced

I. course data

- Course Title: General surgery advanced
- Course Code VSA311
- Specialty: Andrology, Sexology and STDs
- Number of points: 2CP ;1CP (50%) DIDACTICS, 1CP(50%)Practical
- 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: Completed master degree
- •
- Requirements from the students to achieve course ILOs are clarified in the joining log book.

2. Course Aims

2/1 Provide the candidate with the advanced knowledge and skills of general surgery 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 in advanced details the symptoms and sings of most common and uncommon surgical conditions related to andrology diseases. • 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 genitalia	Lectures And didactics	Written and oral examination Log book

B-Intellectual outcomes

ILOs	Methods of teaching/ Learning	Methods of Evaluation
A. Correlates the facts of relevant advanced and clinically supportive sciences with clinical reasoning, diagnosis and management of common and uncommon surgical diseases related to Andrology . B. Demonstrate an investigatory and analytic thinking (problem solving) approaches to common clinical surgical situations related to Andrology	Clinical rounds Senior staff experience	Procedure/case presentation Log book
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 professional case history . B- Proper Diagnosis of 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 Log book

D- General skills

Practice-Based Learning and Improvement

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Perform practice-based improvement activities using a systematic methodology(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 professionally a case in different topics related to Andrology, Sexology and STDs		
K. Write effectively a report in different topics related to Andrology, Sexology and STDs		
L. Council patients and families about different topics related to Andrology, Sexology and STDs		

Professionalism

ILOs	Methods teaching/ learning	of	Methods Evaluation	of
M. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society	Observation -Senior experience	staff	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. Course 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 genetalia	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 (50), oral (10) and clinical (20) examination
 - 2. Log book
- ii. Time schedule: 1ST PART
- iii. Marks: 80 MARK

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

Course 6: Clinical Pathology Advanced & Medical Microbiology and Immunology advanced

It is divided into 2 units:

Unit 1:: Clinical Pathology Advanced

Unit 2: : Medical Microbiology and Immunology advanced

Course code: AVS321B#

Credit points 2 CP

Course 6; Unit 1: Clinical pathology Advanced

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

I. Unit data

- Unit Title: Clinical pathology advanced
- Course code: VSA221B#
- Specialty: Andrology, Sexology and STDs
- Number of points: 1 CP for didactic teaching.
- Department (s) delivering the course: clinical pathology department in conjunction with Department of Andrology, Sexoloy 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: 2019
- Requirements (prerequisites) if any: Completed master degree

2. Unit Aims

2/1-Provide the advanced facts of clinical pathology that are necessary for Andrology, Sexology and STDs.

-AS at the end of unit the candidate should able to master the following;

- Apply approach for semen analysis.
- Identification how to do DNA fragmentation index.
- Testicular markers evaluation.
- Epididymal, prostatic and seminal vesicular markers evaluation

3. Intended learning outcomes (ILOs):

A-Knowledge and understanding

ILOs	Methods	Methods of
	of	Evaluation
	teaching/	
	learning	
A-Describe and explain different advanced aspects and future	Lectures	Written and
perspectives of:	Didactics	oral
1) Laboratory diagnosis of sexually transmitted diseases		examination
(HIV , HSV, HBV, HPV, Chlamydia, gonorrhea, syphilis, and		
others)		Log book
2) Semen analysis		_
3) CASA		
4) DNA fragmentation tests		
5) Tests assessing sperms chromatin condensation		
6) Endocrinal evaluation of male infertility		
7) Genetic evaluation of male infertility		
8) Post coital test		
9) Diagnostic tests for Immunological male infertility		
10) Tumour markers of prostatic and testicular markers.		
11) Sertoli cells markers		
12) PSA.		
13) Markers of spermatogenesis.		
14) Epididymal markers		
15) Prostatic markers		
16) Seminal vesicle markers		
17) Testicular markers.		

B-Intellectual outcomes

ILOs	Methods of teaching/ Learning	Methods of Evaluation
A-Apply conceptual Lab approach for pathogenesis of common male genital infections. B-Formulate a systematic clinical lab approach for microbiological diagnosis of common male genital infections.	seminars, tutorial)	-Written and oral examination -Log book

C- Practical Skills=0

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 Unit Matrix

Time Schedule: First Part

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

5 Methods of teaching/learning:

iii. Lectures

iv. Seminars

v. Didactic teaching.

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

- Lectures
- Seminars
- Didactic teaching

7- Assessment methods:

- i. Assessment tools:
 - Written (40)and oral(10) examination
 - Log book
- ii. Time schedule: at the end of 1st part.
- iii. Marks 50 (40+10)

8- List of references:

Lecture notes

9. Signatures

Unit 1 Coordinator:	Head of the Department:
••••••	••••••
Date:	Date:

Course 6; Unit 2 : Medical Microbiology and Immunology Advanced

Name of department: Department of Dermatology, Venereology & Andrology Faculty of medicine Assiut University 2019- 2020/2020-2021

1.Unit data

- Unit Title: : Medical Microbiology and Immunology Advanced
- Unit code: VSA321B#
- Specialty: Andrology, Sexology and Sexually Transmitted Diseases
- Number of credit points: 1 credit point for didactics
 - 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
 - Coordinator (s): Annually approved by both departments councils
- **♣** Date last reviewed: 2/2019
- Requirements (prerequisites) if any :
 - > Completed Master degree.

2. Unit Aims

2/1- Provide the advanced facts of Microbiology and Immunology that are necessary for Andrology, Sexology and STDs

BY THE END OF unit ,the candidate should be able to master the following skills ;

- *List the causative microorganisms, pathogenesis, and microbiological diagnosis of the following clinical conditions:
- A. Male genital tract infections
- B. Sexually-transmitted infections.
- C. Genital warts.
- D. Identify the types, causative microorganisms, risk factors and preventive measures of nosocomial infections.
 - *Use the microscope.
 - *Demonstrate different types of conventional culture media.
 - *Apply staining techniques of bacteria and fungi.
 - *Identify the morphological and cultural characters of bacteria and fungi.
 - *Interpret biochemical test for identification of bacteria and fungi.

^{*}Interpret antibiotic susceptibility testing.

3. Intended learning outcomes (ILOs):

A. Knowledge and understanding

Competency and	Methods of	Methods of
Skills	teaching/	Evaluation
	Learning	
A. Describe the Microbiological and	Lecture and	Oral &Written
immunological advances related to Andrology, Sexology and STDs diseases including:	discussion	exam
A To provide the students with an		
advanced facts of the protective functions		
of the immune system and its role in the pathophysiology of male genital infections.		
B. To provide the students with the advanced knowledge of bacteriology, virology and		
mycology and its applications in the andrology and venereology field.		
C. To demonstrate advanced conceptual		
awareness of male genital infections, their microbial causes, clinical presentation,		
laboratory diagnosis, prevention and		
treatment.		
D. To aware the students with the advanced		
techniques of sterilization and infection		
control.		

B. intellectual skills

Competency and Skills	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,	Oral &Written exam

D D		
B. Demonstrate an investigatory and	tutorial)	
analytic thinking (problem solving)	•	
approaches for laboratory diagnosis of		
common dermatologic or venereal		
diseases and select the most appropriate		
and cost-effective tool leading to the		
identification of the causative organism.		
C- Categorize a microorganism as a		
bacterium, virus or fungus according to		
standard taxonomy.		
D- Report and appraise a concise scientific		
activity according to standard scientific		
thinking and integrity.		

C. Practical skills =0

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	Logbook
	experience	

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

Time Schedule: First Part revise course matrix

Торіс	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
Bacterial structure, physiology, and	A	A-D	-	A-E
classifications				
Bacterial genetics, antibacterial agents, mechanism of actions and resistance				
Staphylococci, Streptococci, and	A	A-D	-	A-E
Enterrococci				
Clostridia and other Gram positive	\mathbf{A}	A-D	-	A-E
bacilli(Corynebacteria,Liseria,bacillus				
group, and Actinomycosis)				
Nisseria,	A	A-D	-	A-E
Porvobacteria (Haemophyilus, Bordetella, Br				
ucellaLegionellaYerisinia,Pasteurella)				
Enterobacteriaceae	A	A-D	-	A-E
Pseudomonas, Vibrios, Campylobacter, Helic	A	A-D	-	A-H
obacter				
Gram negative anaerobic bacteria				

Spirochates,	A	A-D	-	A-H
Mycobacteria, Clamydia, Mycoplasma,				
Basic mycology: classification and	A	A-D	-	A-E
antifungal agents				
Basic virology ,major virus group	C	A-D	-	A-E
Basic immunology: immune	В	A-D	-	A-E
response(tissues and cells, types)				
Humoral immunity, Immunoglobulins,	В	A-D	-	A-E
Complement, Ag-Ab reactions)				
Cell mediated immunity, Cytokines,	В	A-D	-	A-E
Immunity to bacterial infections and				
immunoprophylaxis				
Autoimmunity and tumor immunology	В,С	A-D	-	A-E
Immunodeficiency and infections in	В	A-D	-	A-H
immunocomprommized host				
Sterilization and disinfection	A	A-D	-	A-H
Sexually transmitted infections	A	A-D	-	A-H
Skin and soft tissue infections	A,C	A-D	-	A-H

5 Module Methods of teaching/learning:

vi. Lectures

vii. Laboratory work

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

- Lectures
- Laboratory work

7- module assessment methods:

- i. Assessment tools:
 - Written (30 degrees) and oral (20 degrees) examination
 - Log book
- ii. Time schedule: at the end of 1st part.
- iii. Marks =50

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		
Unit 1 Coordinator:	Head of the Department:	
Date:	Date:	
Unit 2 Coordinator:	Head of the Department:	
	•••••	
Date:	Date:	

Course 7: Psychiatry & Psychosexual Disorders

- Name of department: Dermatology , Andrology and venereology department.
- Faculty of medicine
- Asyut University
- **2019-2020/2020-2021**

1. Course data

- Course Title: Psychiatry & Psychosexual Disorders
- Course code: VSA320
 - Specialty: Andrology ,Sexology and Sexually transmitted diseases
- Number of credit points:1 credit points (100%); Didactics 1CP 0.75CP(0.75%); PRACTICAL 0.25(0.25)CP.
 - Department (s) delivering the course: Neuropsychiatry
 Department in conjunction with Department of
 Dermatology, Venereology and Andrology.
- Coordinator (s):According to approval of departmental councils

Date last reviewed:

Requirements (prerequisites) if any: Completed Master degree.

2. Course Aims

- 2/1 Provide the advanced knowledge and attitudes required for psychiatric problems related to sexology and andrological complaints.
- 2/2 Acquire the advanced psychosexual 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
A. Describe the advances of psychology and sexology related to Andrology problems including the following: Psychology of sex Disorders of sexual cycle Paraphilias Gender identity disorders	Lectures Didactics discussion	Written and oral examination Log book
B- Illustrate the art of psychiatric concepts and condition related to andrology including the following: -advanced facts and classification in psychiatry advanced management strategies in psychiatry -Interface between psychiatry and andrology - Common and uncommon psychiatric conditions and their management.		

B) Intellectual outcomes

ILOs	Methods of teaching/ Learning	Methods of Evaluation
A. Correlates the facts of advanced 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 -Log book
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches to the conditions mentioned above.		

C) Practical Skills

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

D) General Skills Practice-Based Learning and Improvement

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

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	Intellectua l	Practic al skill	General Skills
Psychology of sex	A	A	-	В-Е
Disorders of sexual cycle	A	A	-	A-H
Paraphilias	A	A	-	A-H
Gender identity disorders	A	A,B	-	В-Е
Introduction and classification in psychiatry	В	A	-	В-Е
Introduction to management strategies in psychiatry	В	A	-	В-Е
Interface between psychiatry and andrology	В	A	-	В-Е
Common psychiatric conditions and their management	В	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
 - Log book
- ii. Time schedule: first part
- iii. Marks: 50 (40+10)

8. List of references

9 Signatures

Course Notes: lecture notes.

3. Signatures		
Course Coordinator:	Head of the Department:	
••••••	••••••	
Date:	Date:	

Course 8: Internal Medicine Advanced

I. Course data

- Course Title: Internal Medicine advanced
- Course code: VSA318
- Specialty: Andrology, Sexology and STDs
- Number of points: 1 CP ;0.5CP(50%) for didactics as well as trainig
- ♣ 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, Sexoloy and STDs as annually approved by both departments councils.
- Date last reviewed: 2-2019
- Requirements (prerequisites) if any: Completed master degree

2. Course Aims

2/1 Provide the advanced facts **internal medicine** that are necessary for Andrology, Sexology and STDs

3. intended learning outcomes (ILOs):

A- Knowledge and understanding

ILOs		Methods of teaching/ learning	Methods of Evaluation
A.	Advanced Description of the etiology, clinical picture, diagnosis and management of the following diseases and clinical conditions:-	Lectures Didactics	Written and oral examination
1.	Approach to the Patient: History and Physical Examination		Log book
2.	Hematopoiesis; Hematopoietic Growth Factors & The Peripheral Blood Smear		
3.	Immunosuppressing Drugs Including Corticosteroids		
4.	Antithrombotic Therapy		
5.	Principles of Genetics and the Inherited basis of common diseases		
6.	The Innate and the Adaptive Immune System		
7.	Prevention and Control of Health Care- Associated Infections		
8.	Diabetes mellitus		

9. Arterial Hypertension	
10. Atherosclerosis, Thrombosis, and Vascular Biology	
11. Diseases of the Aorta & Atherosclerotic and other Peripheral Arterial Disease	
12. Chronic Kidney Disease	
13. Treatment of Irreversible Renal Failure	
14. Hepatic Failure and Liver Transplantation	
15. Approach to the Anemias	
16. Disorders of Lipid Metabolism	
17. Wilson Disease	
18. Neuroendocrinology and the Neuroendocrine System	
19. The Systemic Vasculitides	
20. Approach to the Patient with Urinary Tract Infection	
21. Tuberculosis	
22. Autonomic Disorders and Their Management	
B. Mention the principles of advanced management of :	
Organ failure (cardiac, hepatic, renal, respiratory) Systemic failure(shock) Disorders of electrolytes and acid base balance Cardiac arrhythmia Diabetes mellitus	

		1
	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 advanced and clinically supportive sciences of medical problem related to Andrology	
E.	Explain the facts and principles of the relevant advanced and clinically supportive sciences of medical problem related to Andrology	
F.	Describe the advanced ethical and medicolegal principles of medical problem revenant to the Andrology	
G.	Describe the advances 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	Methods of
	teaching/	Evaluation
	Learning	
A. Correlates the advanced facts of relevant basic and clinically	Clinical rounds	Procedure/case
supportive sciences with clinical reasoning, diagnosis and management		presentation
of common medical diseases related to Andrology.	Senior staff	Log book
B. Demonstrate an investigatory and analytic thinking (problem solving)	experience	
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	Methods of	Methods of
Skills	teaching/	Evaluation
	learning	
A- Take full medical history	training (clinical)	clinical
B- Examine different systems efficiently & elicit signs.		problem
C- Order appropriate investigations for common		solving and
medical conditions.		oral
D- Demonstrate effective communication with patients,		examination
relatives and colleagues.		Log book
E- Cope with ethical and legal issues which occur		
during the management of patients with general medical		
problems.		

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	-Observation	Logbook
systems.	-Senior staff	
	experience	

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

Time Schedule: First Part

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

5 Methods of teaching/learning:

- i. Lectures
- ii. Laboratory work

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

- Lectures
- Clinical work

7 Assessment methods:

- i. Assessment tools:
 - Written (35) and oral (10) and practical (15) examination
 - Log book
- ii. Time schedule: at the end of 1st part.
- iii. Marks 60: (35+15+10)

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

Course 9: Advanced Andrology, Sexology. and Sexually transmitted diseases

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

I. Course data

- Course Title: Advanced Andrology, Sexology and Sexually transmitted diseases(STD)
- Course code: VSA321C
- It is divided into 5 units.
 - Unit 1: Male reproductive Medicine and Surgery (Advanced)
 - Unit 2: Assisted Reproduction (Advanced)
 - Unit 3: Sexual Medicine and Surgery(Advanced)
 - Unit 4; Sexually transmitted diseases (STDs) (Advanced)
 - Unit 5; Andrology related disorders(Advanced)
- Specialty: Andrology, Sexology and sexually transmitted diseases(STD).
- Number of points: 147 CP; Didactics: 24CP(16.3%); Practical 123CP (83.7%).

Unit title	Didactics	Practical	Total

	СР	СР	СР
Specialized Courses: Course 7:Advanced andrology ,sexology and sexually transmitted diseases	24	123	147
Unit 1: Male reproductive Medicine and Surgery (Advanced)	5	30	35
Unit 2: Assisted Reproduction(Advanced)	4	10	14
Unit 3 : Sexual Medicine and Surgery(Advanced)	5	29	34
Unit 4: Sexually transmitted diseases (STDs) (Advanced)	5	29	34
Unit 5 : Andrology related disorders (Advanced)	5	25	30

Department (s) delivering the course: Dermatology,
 Venereology and Andrology

- Coordinator (s):
 - Course coordinator:
 - Dr Emad El Dien Kamal
 - Assistant coordinators:

Dr Ali Mahran.

- Date last reviewed: 3/2019.
- Requirements (prerequisites) if any :
- Requirements from the students to achieve course ILOs are clarified in the joining log book.

2. Course Aims

- 1) To Enable the candidates to keep with the international advanced 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 advances of scientific research.
- 3) Enable them to continue the professional careers as consultants in Egypt.
- 4) Make them recognized as consultants 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. Course intended learning outcomes (ILOs)

Course 9; unit 1& 2: Male reproductive Medicine and Surgery and Assisted Reproduction (Advanced)

A-Knowledge and understanding

ILOs	Methods of teaching/learning	Methods of Evaluation
 A. Explain professionally the update and evidence based etiology, clinical picture, diagnosis and management of the following common ad rare diseases and clinical conditions: Kallman syndrome Prader- Labhart Willi syndrome Bardet Moon Biedl syndrome Hyperprolactinaemia Y- Chromosome microdeletions Other pretesticular causes Varicocele Testicular Torsion Klinefelters syndrome Noonan Syndrome. 	Didactic; -Lectures -Clinical rounds -Operative theatre -Seminars -Clinical rotations (service teaching)	Oral and written exam log book

Obstructive infertility.	
·	
 Ejaculatory and coital infertility. 	
Androgens resistance syndromes.	
 5α-reductase 2 deficiency. 	
Other Post-Testicular causes.	
Immunological Infertility.	
Infection and infertility.	
 Drugs and environmental causes of male infertility 	
Systemic diseases and infertility	
 B. Mention in details state of art of the following rare diseases and conditions: Generalized pituitary dysfunction (Panhypopituitarism). 	
Isolated gonadotrophins deficiency	
"Fertile eunuch syndrome"	
Male anorexia nervosa .	
GnRH receptor gene mutations	
 Idiopathic hypogonadotrophic hypogonadism. 	
Gonadotropin gene mutations	
Combined pituitary hormone deficiency	

(CPHD))	
 Adrenal hypoplasia congenita (AHC). 	
 Steroidogenic factor-1 (SF-1) gene mutations. 	
 Leptin and leptin receptor gene mutations. 	
 Activating LHR gene mutations (Testotoxicosis) 	
Myotonic dystrophy.	
 Sex reversal syndrome (XX syndrome) 	
XYY Syndrome.	
 Gonadal Dysgenesis (Streak gonads). 	
 5α-Reductase 2 gene mutations (5α- reductase 2 deficiency (Perineoscrotal hypospadias with pseudovagina (PHP)). 	
 Complete testicular feminization syndrome 	
 Partial androgen insensitivity syndrome (PAIS) 	
Incomplete testicular feminization	
Reifenstein Syndrome.	
C. Explain advanced methods and new	
techniques in:	1

 Artificial insemination with husband semen. 	
Semen processing.	
Sperm retrieval.	
Cryopreservations.	
Vetrification.	
Ovarian stimulation.	
Ovum pick up	
 Intracytoplasmic sperm injection. 	
Assisted hatching.	
 Preimplantation genetic diagnosis. 	
Emrbyo transfere.	
Spermatogenic cells culture.	
Sex selection.	
Reproductive semicloning.	
Stem cell implantation.	
D. Explain the facts and principles of the relevant advanced and clinically supportive sciences related to male infertility and ART.	
E. Describe the advanced ethical and medicolegal principles revenant to infertility and ART.	
F. Describe the advances of quality assurance to ensure good clinical care in his	

field	
G. Explain the advanced ethical and	
scientific principles of medical research	
H. Explain the impact of common health	
problems in the field of specialty on the	
society.	

B-Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Design and present case in common and rare problem related to Various andrological disorders.	Clinical rounds Senior staff experience	Procedure/c ase presentatio n Log book
 B. Apply the advanced and clinically supportive sciences which are appropriate to the specialty related conditions, problem and topics. C. Demonstrate an investigatory and analytic thinking "problem – solving "approaches to clinical situation related to andrology 		
D. Plan research projects.		
E. Write scientific papers.		
F. Lead risk management activities as a part of clinical governs.		
G. Plain quality improvement activities in		

the field of medical education and clinical	
practice in his specialty.	
H. Create / innovate plans, systems, and	
other issues for improvement of	
performance in his practice.	
I. Present and defend his / her data in front	
of a panel of experts	
J. Formulate management plans and	
alternative decisions in different situations	
in the field of the Infertility and ART.	

C-Practical skills (Patient Care)

ILOs	Methods of teaching/learning	Methods of Evaluation
A-Take history, examine and clinically diagnose different conditions related to Infertility and ART	Didactic; -Lectures -Clinical rounds -Seminars -Clinical rotations (service teaching)	
B-Order the following non invasive&invasive diagnostic procedures:	Clinical round with senior staff	Procedure presentation - Log book

•	Semen analysis.	Observation Post	- Chick list
•	CASA (computer assisted semen analysis).	graduate teaching Hand on	
•	Peroxidase and leucoscreen tests for pus cells.	workshops	
•	Alpha glucosidase and fructose.		
•	Sperm functions tests.		
•	Sperm ultra structure studies.		
•	Expressed prostatic secretion analysis.		
•	Urine analysis.		
•	Post-orgasmic urine.		
•	Hormonal profile (FSH, LH, Total and free testosterone, Prolactin, Estradiol and TSH).		
•	HCG stimulation test.		
•	Karyotyping.		
•	Y chromosome microdeletions studies.		
•	Scrotal duplex ultrasound.		
•	Trans rectal ultrasound.		
•	Seminal vesiculography.		
•	Diagnostic testicular biopsy.		

C. Interpret the following non invasive &invasive	Clinical	
diagnostic procedures:	round with	
	senior staff	
Testicular biopsy.		
D-Perform the following non invasive & invasive	Clinical	
diagnostic procedures:	round with	
Semen analysis.	senior staff	
	-Perform under	
 CASA (computer assisted semen analysis). 	supervision	
 Expressed prostatic secretion analysis. 	of senior	
	staff	
HCG stimulation test.		
Scrotal duplex ultrasound.		
Trans rectal ultrasound.		
Diagnostic testicular biopsy.		
	Clinical	
E-Perform the following non invasive& invasive	round with	
therapeutic procedures:	senior staff	
 Varicocelectomy. 	-Perform	
Hydrocelectomy.	under supervision of senior	
Orchidopexy.		
Epididymo-vasostomy.	staff	
Transurethral resection of		
verumontanum (TUR).		
Different sperm retrieval techniques:		
 TESE (testicular sperm extraction). 		

 Microsurgical TESE. 		
 TESA (testicular sperm aspiration). 		
 PESA (percutaneous epididymal sperm aspiration). 		
 MESA (microsurgical epididymal sperm aspiration). 		
F-Develop patient management plans for the following problems:	Clinical round with senior staff	Procedure/ca se presentation
Klinefelters syndrome.Kallman syndrome		Log book
 Hyperprolactinaemia. 		
Hypogonadotrophic hypogonadism.		
Hypergonadotrophic hypogonadism.		
Functional azoospermia.		
Obstructive azoospermia.		
Varicocele.		
Sertoli cell only syndrome		
 Congenital bilateral absent vas deferens. 		
G-Counsel and educate patients and their family about		
Various infertility disorders:		

Functional infertility.	
 Obstructive infertility. 	
■ IUI.	
■ ICSI.	
Cryopreservation.	
H-Use information technology to support patient care decisions and patient education for the infertility and ART related conditions.	
I- Provide health care services aimed at preventing the following conditions:	
Epididymo-orchitis.	
Tuberculosis.	
Testicular trauma.	
Testicular torsion.	
 Prostatitis. 	
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 and evaluate a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and evaluating comprehensive, timely and legible 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 - Observatio n and supervision -Written & oral communica tion	Procedur e/case presenta tion -Log book and Portfolio s
B. Locate, appraises, and assimilates evidence from scientific studies related to patients' health problems.	-Journal clubs - Discussions in seminars and clinical rounds	
C. Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness		
D. Use information technology to manage information, access on-line medical information; and support their own education E. Lead the learning of students and other health care professionals.		

Interpersonal and Communication Skills

ILOs	Methods of	Methods of
	teaching/	Evaluation
	learning	
F. Create and sustain a therapeutic and ethically	Simulations	Global
•	Clinical	rating
sound relationship with patients	round	Procedure
G. Perform the following oral communications:	Seminars	/case
H. Fill the following reports:	Lectures	presentati
I. Work effectively with others as a member or	Case	on
•	presentation	Log book
leader of a health care team e.g. in labor ward	Hand on	Portfolios
	workshops	Chick list

Professionalism

ILOs	Methods of teaching/ Learning	Methods of Evaluation
J. 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 examinatio n 2. Patient survey
 K. Demonstrate a commitment to ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices. L. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities 		1. 360o global rating

Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
M.Work effectively in different health care delivery settings and systems.	Observation Senior staff experience	1. 360o global rating 1. Check list
N.Practice cost-effective health care and resource allocation that does not compromise quality of care		evaluation of live or recorded performance
O.Advocate for quality patient care and assist patients in dealing with system complexities		 360o global rating Patient survey
P.Partner with health care managers and health care providers to assess, coordinate, and improve health care and predict how these activities can affect system performance		

Unit 3 : Sexual Medicine and Surgery(advanced)

3. Course intended learning outcomes (ILOs):

A-Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Explain professionally the updated and evidence based etiology, clinical picture, diagnosis and management of the following common diseases and clinical conditions:	Didactic; -Lectures -Clinical rounds -Operative theatre -Seminars -Clinical rotations (service teaching)	-OSCE at the end of each year -log book & portfolio - MCQ examinatio n -Oral and written exam
B. Mention in details the state of art of the following rare diseases and conditions:		

B-Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Design and present case in common problem related to Various sexual disorders.	Clinical rounds Senior staff experience	Procedure/c ase presentation Log book
 B. Apply the advanced and clinically supportive sciences which are appropriate to the specialty related conditions, problem and topics. C. Demonstrate an investigatory and analytic thinking "problem – solving "approaches to clinical 		
situation related to sexology. D. Plan research projects.		
E. Write scientific papers. F. Lead risk management activities as a part of		
clinical governs.		
G. Plain quality improvement activities in the field of medical education and clinical practice in		
sexology.		
H. Create / innovate plans, systems, and other issues for improvement of performance in sexology.		
I. Present and defend his / her data in front of a		
panel of experts		
J. Formulate management plans and alternative		
decisions in different situations in the field of		
sexology.		

C-Practical skills (Patient Care)

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. professionally take history, examine and clinically diagnose different conditions related to sexology.	-Didactic; -Lectures -Clinical rounds -Seminars -Clinical rotations (service teaching)	- OSCE at the end of each year -log book & portfolio - MCQ examinatio n
 B. Order the following non invasive/invasive diagnostic procedures: Intracavernosal injection of vaso-active drugs. Pharmaco-dynamic penile duplex. Regiscan. Cavernosometry. Cavernosography. Post-orgasmic urine. Hormonal profile (FSH, LH, Total and free testosterone, Prolactin, Estradiol and TSH). 	Clinical round with senior staff Observation Post graduate teaching Hand on workshops	-Procedure presentatio n - Log book - Chick list
C. Interpret the following non invasive&invasive diagnostic procedures: Rigiscan.	Clinical round with senior staff	Procedure presentation - Log book - Chick list
D. Perform the following non invasive&invasive diagnostic procedures:	Clinical round with senior staff	Procedure presentatio n

Penile duplex.	-Perform under supervision of	- Log book - Chick list
Cavernosometry.	senior staff	
Intracorporal injection.		
Caverosography.		
E. Perform the following non invasive/invasive therapeutic procedures:	Clinical round with senior	
Penile prosthesis.	staff	
Correction of penile curvature.	Operative theatre	
Repair of fracture penis.		
F. Develop patient management plans for the following problems:		
Erectile dysfunction.		
Peyronies disease.		
Priapism.		
Ejaculatory disorders.		
Female sexual dysfunctions.		
Sexual deviations.		
G. Counsel and educate patients and their family about		
Various sexual diorders:		
Erectile dysfunctions.		
Ejaculatory dysfunction.		
Sexual deviations.		
Female sexual dysfunctions.		

Disorders of libido.	
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:	
• Priapism.	
 Peyronies disease. 	
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 and evaluate a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and evaluating comprehensive, timely and legible medical records).	

<u>D-General Skills</u> 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 communicati on	Procedure /case presentati on -Log book and Portfolios
B. Locate, appraises, and assimilates evidence from scientific studies related to patients' health problems.	-Journal clubs - Discussions in seminars	

	and clinical rounds	
C. Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness		
D. Use information technology to manage information, access on-line medical information; and support their own education		
E. Lead the learning of students and other health care professionals.		

Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluatio n
F. Create and sustain a therapeutic and ethically sound relationship with patients	Simulations Clinical round Seminars Lectures Case presentation Hand on workshops	Global rating Procedure /case presentati on Log book Portfolios Chick list
G. Perform the following oral communications: Present a case in a common Sexology problem		
H. Fill the following reports: Medicolegal reports		
I. Work effectively with others as a member or leader of a health care team e.g. in labor ward		

Professionalism

ILOs	Methods of teaching/ Learning	Methods of Evaluation
J. 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
K. 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
L. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		

Systems-Based Practice

ILOs	Methods of teaching/learning	Methods of Evaluation
M.Work effectively in different health care delivery settings and systems.	Observation Senior staff experience Case taking	1. 360o global rating
N.Practice cost-effective health care and resource allocation that does not		1. Check list evaluation of

	1.
compromise quality of care	live or
	recorded
	performance
O.Advocate for quality patient care	1. 3600
' ''	global rating
and assist patients in dealing with	8.000.101.18
system complexities	
System complexities	2. Patient
	survey
P.Partner with health care managers and	
health care providers to assess, coordinate,	
and improve health care and predict how	
these activities can affect system	
performance	
F 55	

Course 9;unit 4: SEXUALLY TRANSMITTED DISEASES(Advanced)

3. Course intended learning outcomes (ILOs):

A-Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Explain professionally the updates and evidence based etiology, clinical picture, diagnosis and management of the following common diseases and clinical conditions:	Didactic; -Lectures -Clinical rounds -Seminars -Clinical rotations (service teaching)	-OSCE at the end of each year -log book & portfolio - MCQ examination -Oral and written exam

Genital Ulcers	
 Systemic manifestations of STDs 	
 Rieters syndrome and sexually reactive arthritis. 	
Gay bowel syndrome.	
B. Mention in details the state of art of the following rare diseases and conditions:HIV.	
 Reiter's syndrome and sexually reactive arthritis. 	
C. Explain advanced methods and new techniques in: -HIV treatment.	
D. Explain the facts and principles of the relevant advanced and clinically supportive sciences related to STDs.	
E. Describe the advanced ethical and medicolegal principles revenant to the STDs.	
F. Describe the advancesof quality assurance to ensure good clinical care in his field	
G. Explain the advanced ethical and scientific principles of medical research	
H. Explain the impact of common health problems in the field of specialty on the society.	

B-Intellectual outcomes

ILOs	Methods of teaching/	Methods of Evaluation
	learning	
A. Design and present case in common problems related to Various STDs disorders.	Clinical rounds Senior staff experience	Procedure/cas e presentation Log book
B. Apply the advanced and clinically supportive sciences which are appropriate to the specialty related conditions, problem and topics.		
C. Demonstrate an investigatory and analytic thinking "problem – solving "approaches to clinical situation related to STDs		
D. Plan research projects about the topics of STDs.		
E. Write scientific papers in STDs.		
F. Lead risk management activities as a part of		
clinical governs.		
G. Plain quality improvement activities in the field		
of medical education and clinical practice in his		
specialty.		
H. Create / innovate plans, systems, and other		
issues for improvement of performance in his		
practice.		
I. Present and defend his / her data in front of a		
panel of experts		
J. 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 Professionally, 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 -log book & portfolio - MCQ examination
B-Order the following non invasive/invasive diagnostic procedures: • Gram Stain.	Clinical round with senior staff Observation Post graduate	-Procedure presentation - Log book - Chick list
Culture for gonorrhea.	teaching Hand on workshops	- CHICK HSt
• EPS.		
Elista test for HIV.		
Western blot.		
Non specific serological tests.		
Specific serological tests.		
Dark ground test.		
Chlamydizem tests.		
C-Interpret the following non invasive/invasive diagnostic procedures: Gram stain.	Clinical round with senior staff	Procedure presentation - Log book - Chick list
D- Perform the following non invasive/invasive diagnostic procedures: -EPS.	Clinical round with senior staff -Perform under supervision of senior staff	Procedure presentation - Log book - Chick list

E- Develop patient management plans for the following problems: Gonorrhoea Non gonococcal urethritis Lymphogranuloma venerium Granuloma inguinal Mycoplasma Chancroid Syphilis Herpes simplex HIV Genital warts Genital warts Genital warts Genital warts Genital warts Other Viral STDs Fungal STDs Protozoal and Parasitic STDs Genital Ulcers Systemic manifestations of STDs Rieters syndrome and sexually reactive arthritis.			l
 Non gonococcal urethritis Lymphogranuloma venerium Granuloma inguinal Mycoplasma Chancroid Syphilis Herpes simplex HIV Genital warts Genital warts Other Viral STDs Fungal STDs Protozoal and Parasitic STDs Genital Ulcers Systemic manifestations of STDs Rieters syndrome and sexually reactive arthritis. 		ient management plans for the following	
 Lymphogranuloma venerium Granuloma inguinal Mycoplasma Chancroid Syphilis Herpes simplex HIV Genital warts Genital warts Other Viral STDs Fungal STDs Protozoal and Parasitic STDs Genital Ulcers Systemic manifestations of STDs Rieters syndrome and sexually reactive arthritis. 	•	Gonorrhoea	
 Granuloma inguinal Mycoplasma Chancroid Syphilis Herpes simplex HIV Genital warts Genital warts Other Viral STDs Fungal STDs Protozoal and Parasitic STDs Genital Ulcers Systemic manifestations of STDs Rieters syndrome and sexually reactive arthritis. 	•	Non gonococcal urethritis	
 Mycoplasma Chancroid Syphilis Herpes simplex HIV Genital warts Genital warts Other Viral STDs Fungal STDs Protozoal and Parasitic STDs Genital Ulcers Systemic manifestations of STDs Rieters syndrome and sexually reactive arthritis. 	•	Lymphogranuloma venerium	
 Chancroid Syphilis Herpes simplex HIV Genital warts Genital warts Other Viral STDs Fungal STDs Protozoal and Parasitic STDs Genital Ulcers Systemic manifestations of STDs Rieters syndrome and sexually reactive arthritis. 	•	Granuloma inguinal	
 Syphilis Herpes simplex HIV Genital warts Genital warts Other Viral STDs Fungal STDs Protozoal and Parasitic STDs Genital Ulcers Systemic manifestations of STDs Rieters syndrome and sexually reactive arthritis. 	•	Mycoplasma	
 Herpes simplex HIV Genital warts Genital warts Other Viral STDs Fungal STDs Protozoal and Parasitic STDs Genital Ulcers Systemic manifestations of STDs Rieters syndrome and sexually reactive arthritis. 	•	Chancroid	
 HIV Genital warts Genital warts Other Viral STDs Fungal STDs Protozoal and Parasitic STDs Genital Ulcers Systemic manifestations of STDs Rieters syndrome and sexually reactive arthritis. 	•	Syphilis	
 Genital warts Genital warts Other Viral STDs Fungal STDs Protozoal and Parasitic STDs Genital Ulcers Systemic manifestations of STDs Rieters syndrome and sexually reactive arthritis. 	•	Herpes simplex	
 Genital warts Other Viral STDs Fungal STDs Protozoal and Parasitic STDs Genital Ulcers Systemic manifestations of STDs Rieters syndrome and sexually reactive arthritis. 	•	HIV	
 Other Viral STDs Fungal STDs Protozoal and Parasitic STDs Genital Ulcers Systemic manifestations of STDs Rieters syndrome and sexually reactive arthritis. 	•	Genital warts	
 Fungal STDs Protozoal and Parasitic STDs Genital Ulcers Systemic manifestations of STDs Rieters syndrome and sexually reactive arthritis. 	•	Genital warts	
 Protozoal and Parasitic STDs Genital Ulcers Systemic manifestations of STDs Rieters syndrome and sexually reactive arthritis. 	•	Other Viral STDs	
 Genital Ulcers Systemic manifestations of STDs Rieters syndrome and sexually reactive arthritis. 	•	Fungal STDs	
 Systemic manifestations of STDs Rieters syndrome and sexually reactive arthritis. 	•	Protozoal and Parasitic STDs	
Rieters syndrome and sexually reactive arthritis.	•	Genital Ulcers	
arthritis.	•	Systemic manifestations of STDs	
Gav bowel syndrome.	•		
	•	Gay bowel syndrome.	
F-Counsel and educate patients and their family about Various disorders: • Gonorrhoea		orders:	

Non gonococcal urethritis	
Lymphogranuloma venerium	
Granuloma inguinal	
 Mycoplasma 	
 Chancroid 	
 Syphilis 	
Herpes simplex	
• HIV	
Genital warts	
Genital warts	
Other Viral STDs	
Fungal STDs	
 Protozoal and Parasitic STDs 	
Genital Ulcers	
Systemic manifestations of STDs	
 Rieters syndrome and sexually reactive arthritis. 	
Gay bowel syndrome.	
G-Use information technology to support patient care decisions and patient education for the STDs related conditions.	
H- Provide health care services aimed at preventing the following conditions:	
 Gonorrhoea 	

Non gonococcal urethritis	
Lymphogranuloma venerium	
Granuloma inguinal	
 Mycoplasma 	
Chancroid	
 Syphilis 	
Herpes simplex	
• HIV	
Genital warts	
Fungal STDs	
 Protozoal and Parasitic STDs 	
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 and evaluate a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and evaluating comprehensive, timely and legible medical records).	

D-General Skills

Practice-Based Learning and Improvement

ILOs	Methods of	Methods
	teaching/	of
	learning	Evaluation
A- Perform practice-based improvement activities using a systematic methodology in the common problems (plain and conduct audit cycles)	-Observation	Procedure/c ase presentatio n -Log book and

		Portfolios
B- Locate, appraises, and assimilates evidence from scientific studies related to patients' health problems.	-Journal clubs - Discussions in seminars and clinical rounds	
C- Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness		
D- Use information technology to manage information, access on-line medical information; and support their own education		
E- Lead the learning of students and other health care professionals.		

Interpersonal and Communication Skills

ILOs	Methods of teaching/ Learning	Methods of Evaluation
F- Create and sustain a therapeutic and ethically sound relationship with patients	Simulations Clinical round Seminars Lectures Case presentation Hand on workshops	Global rating Procedure/c ase presentatio n Log book Portfolios Chick list
G- Perform the following oral communications:		
Counsel and educate patients and their family about:		
Different STDs		
H-Fill the following reports:		
Medicolegal reports		
I-Work effectively with others as a member or leader of a health care team e.g. in labor ward		

Professionalism

ILOs	Methods of teaching/ Learning	Methods of Evaluation
J-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
K- 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
L- Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		

Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
M-Work effectively in different health care delivery settings and systems.	Observation n Senior staffexperience	1. 360o global rating
N-Practice cost-effective health care and resource allocation that does not compromise quality of care		1. Check list evaluation of live or recorded performance
O-Advocate for quality patient care and assist patients in dealing with system complexities		 3600 global rating Patient survey

P-Partner with health care managers and health	
care providers to assess, coordinate, and improve	
health care and predict how these activities can	
affect system performance	

Course 9;Unit 5: Andrology related disorders(advanced)

3. Course intended learning outcomes (ILOs):

A-Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
 A. Explain professionally the updates and evidence based etiology, clinical picture, diagnosis and management of the following common diseases and clinical conditions: Congenital anomalies of the testis. Congenital anomalies of the penis. Congenital anomalies of the urethra. Congenital anomalies of the vas deferens. Intersex. Puberty disorders 	Didactic; -Lectures -Clinical rounds -Seminars -Clinical rotations (service teaching)	-OSCE at the end of each year -log book & portfolio - MCQ examination -Oral and written exam
 B-Mention in details the state of art of the following rare diseases and conditions: Male pseudohermaphroditism. Female pesudohermaphroditis. True hermaphroditism. 		

Testicular vanishing syndrome.	
C. Explain advanced methods and new techniques in:Male contraception.	
D. Explain the facts and principles of the relevant advanced and clinically supportive sciences related to general andrological problems.	
E. Describe the advanced ethical and medicolegal principles revenant to andrology	
F. Describe the advanced of quality assurance to ensure good clinical care in his field	
G. Explain the advanced ethical and scientific principles of medical research	
H. Explain the impact of common health problems in the field of specialty on the society.	

B-Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A-Design and present case in common problem related to Various andrological disorders.	Clinical rounds Senior staff experience	Procedure/c ase presentation Log book
B-Apply the advanced and clinically supportive sciences which are appropriate to the specialty related conditions, problem and topics.		
C- Demonstrate an investigatory and analytic thinking "problem – solving "approaches to clinical situation related to andrology		
D- Plan research projects.		
E-Write scientific papers.		

F- Lead risk management activities as a part of	
clinical governs.	
G- Plain quality improvement activities in the field	
of medical education and clinical practice in his	
specialty.	
H- Create / innovate plans, systems, and other	
issues for improvement of performance in his	
practice.	
I- Present and defend his / her data in front of a	
panel of experts	
J-Formulate management plans and alternative	
decisions in different situations in the field of the	
General andrology.	

C-Practical skills (Patient Care)

ILOs	Methods of teaching/ learning	Methods of Evaluation
A-Professionally 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 -log book & portfolio - MCQ examination
B-Order the following non invasive/invasive diagnostic procedures: • Scrotal Ultrasound. • Hormonal profile.	Clinical round with senior staff Observation Post graduate teaching Hand on	-Procedure presentation - Log book - Chick list
	workshops	

Trans-rectal ultrasound.		
C-Interpret the following non invasive/invasive diagnostic procedures: Pelvi-abdomenal ultrasound.	Clinical round with senior staff	Procedure presentation - Log book - Chick list
■ Trans-rectal ultrasound.		
Trans-rectal ultrasound.		
D-Perform the following non invasive/invasive diagnostic procedures:	Clinical round with senior staff -Perform under	Procedure presentation - Log book
Scrotal Ultrasound.	supervision of senior staff	- Chick list
Trans-rectal ultrasound.	selliof stall	
E-Perform the following non invasive/invasive therapeutic procedures:	Clinical round with senior staff	
Orchidopexy.		
Hydrocelectomy.		
F-Develop patient management plans for the following problems:		
• Intersex.		
Puberty disorders		
Gynecomastia.		
Congenital anomalies of male genital tract.		
Orchitis.		
Epidiymo-orchitis.		
Epididymitis.		
Prostatitis.		
Prostato-seminal vesiculitis.		
Balanitis.		

Posthetitis.	
G-Counsel and educate patients and their family about Various disorders: Gynecomastia. Male contarception. Puberty disorders. Prostatitis. Andropause.	
I- Use information technology to support patient care decisions and patient education for the andrology related conditions.	
J- Provide health care services aimed at preventing the following conditions: • Epididymo-orchitis. • Prostatitis.	
K- Work with health care professionals, including those from other disciplines, to provide patient-focused care.	
L- Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets. (Write and evaluate a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and evaluating comprehensive, timely and legible medical records).	

D-General Skills

Practice-Based Learning and Improvement

ILOs	Methods of teaching/	Methods of
	Learning	Evaluation
A Derform practice based improvement activities using	-Case log	Procedure/c
A- Perform practice-based improvement activities using	-Observation	ase

a systematic methodology in the common problems (plain and conduct audit cycles)	and supervision -Written & oral communication	presentatio n -Log book	
B- Locate, appraises, and assimilates evidence from scientific studies related to patients' health problems.	-Journal clubs - Discussions in seminars and	- Discussions in	and Portfolios
C-Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness	clinical rounds		
D- Use information technology to manage information, access on-line medical information; and support their own education			
E- Lead the learning of students and other health care professionals.			

Interpersonal and Communication Skills

ILOs	Methods of teaching/ Learning	Methods of Evaluation
F- Create and sustain a therapeutic and ethically sound relationship with patients	Simulations Clinical round Seminars Lectures Case presentation Hand on workshops	Global rating Procedure/c ase presentatio n Log book Portfolios Chick list
G- Perform the following oral communications:		
The need for premarital checkup in some circumstances		
H-Fill the following reports: Medicolegal reports		
I-Work effectively with others as a member or leader of a health care team e.g. in labor ward		

Professionalism

ILOs	Methods of teaching/	Methods of Evaluation
J-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
K- 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
L Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		

Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
M-Work effectively in different health care delivery settings and systems.	Observatio n Senior staff experience	1. 360o global rating
N-Practice cost-effective health care and resource allocation that does not compromise quality of care		1. Check list evaluation of live or recorded performance
O-Advocate for quality patient care and		1. 360o

assist patients in dealing with system	global rating
complexities	2. Patient survey
P-Partner with health care managers and health care providers to assess, coordinate, and improve health care and predict how these activities can affect system performance	

4. Course contents (Topics/modules/Rotation)

Time Schedule: Second part

Topic	Covered ILOs			
- Unit 1 :Infertility and Assisted Reproductive Technology (ART)	Knowledge	Intellectual	Practical skills	General Skills
- Unit 1&2 :Infertility and	A-H	A-J	A-L	A-P
Assisted Reproductive				
Technology (ART)				
1. Introduction				
2. Kallman syndrome				
3. Prader- Labhart Willi				
syndrome				
4. Bardet Moon Biedl syndrome				
5. Hyperprolactinaemia				
6. Generalized pituitary				
dysfunction				
(Panhypopituitryism).				

7. Isolated gonadotrophins			
deficiency			
O "Fortile outside outside of outside of outside of outside ou			
8. "Fertile eunuch syndrome"			
9. Male anorexia nervosa.			
10.GnRH receptor gene			
mutations			
11 Idiopathic			
11.Idiopathic			
hypogonadotrophic			
hypogonadism.			
12.Y- Chromosome			
microdeletions			
13.Gonadotropin gene			
mutations			
14.Combined pituitary hormone			
deficiency (CPHD))			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
15.Adrenal hypoplasia congenita			
(AHC).			
16.Steroidogenic factor-1 (SF-1)			
gene mutations.			
gene matations.			
17.Leptin and leptin receptor			
gene mutations.			
18.Activating LHR gene			
mutations (Testotoxicosis)			
19. Myotonic dystrophy.			
20.Sex reversal syndrome (XX			
syndrome)			
21. XYY Syndrome.			

22.Varicocele
23.Testicular Torsion
25.1esticulai 10151011
24.Klinefelters syndrome
25.Noonan Syndrome
26.Gonadal Dysgenesis (Streak
gonads).
27.Obstructive infertility
28. Ejaculatory and coital
infertility
29.Androgens resistance
syndromes
30.5α-reductase 2 deficiency
31.Immunological Infertility
51.IIIIIIdilological liller tility
32.Infection and infertility
33.Drugs and environmental
causes of male infertility
34.Systemic diseases and
infertility
35.Diagnosis of male infertility
36.Medical Treatment of infertility
37.Surgical treatment for male
infertility
38.Introduction to ART
39.Artificial insemination with

husband semen.
40.Semen processing.
41.Sperm retrieval.
42.Cryopreservations.
43. Vetrification.
44.Ovarian stimulation.
45.Ovum pick up
46.Intracytoplasmic sperm
injection.
47. Assisted hatching.
48.Preimplantation genetic
diagnosis.
49.Emrbyo transfere.
50.Spermatogenic cells culture.
51.Sex selection.
52.Reproductive semicloning.
53.Stem cell implantation.

Topic	Covered ILOs			
Unit 3:sexology	Knowledge	Intellectual	Practical skills	General Skills
Unit 3:sexology Advanced	А-Н	A-J	A-L	A-P
1. Introduction to sexology				
2. Disorders of libido				
3. Introduction to ED				
4. Aetiology of ED				
5. Peyronies disease				
6. Priapism				
7. Diagnosis of ED				
8. Medical treatment of ED				
9. Sex therapy for ED				
10.Surgical treatment of ED				
11.Gene Therapy				
12.Ejaculatory disorders				
13.Female sexual dysfunction				
14.Sexual deviations				

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical	General
Linit 4 CTD Advanced	Λ.11	Λ.Ι.	skills	Skills
Unit 4 STD Advanced	A-H	A-J	A-L	A-P
1. Introduction and				
epidemiology of STDs				
2. Gonorrhoea				
3. Non gonococcal				
urethritis				
4. Lymphogranuloma				
venerium				
5. Granuloma inguinal				
6. Mycoplasma				
7. Chancroid				
8. Syphilis				
9. Herpes simplex				
10.HIV				
11.Genital warts				
12.Genital warts				
13.Other Viral STDs				
14.Fungal STDs				
15.Protozoal and Parasitic				
STDs				
16.Genital Ulcers				
17.Systemic				

manifestations of STDs			
18.Rieters syndrome and	1		
sexually reactive			
arthritis			
19.Gay bowel syndrome	-		

Covered ILOs						
Knowledge	Intellectual	Practical	General			
		skills	Skills			
A-H	A-J	A-L	A-P			

5. Course Methods of teaching/learning

- 1. Didactic; Lectures
- 2. Clinical rounds
- **3.**Seminars Clinical rotations

- **4.**(service teaching) Observation
- **5.**Post graduate teaching
- **6.**Hand on workshops
- **7.**Perform under supervision of senior staff
- 8. Simulations
- **9.**Case presentation
- 10. Case Taking

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

- 1. Didactic; Intensive Lectures
- 2. Clinical rounds
- 3. Seminars Clinical rotations
- **4.** (service teaching) Observation
- 5. Post graduate teaching
- **6.** Hand on workshops
- 7. Perform under supervision of senior staff
- 8. Simulations
- **9.** More Case presentation
- 10. More Case Taking

7. Course assessment methods:

i. Assessment tools:

- 1. Clinical examination
- 2. Written and oral examination
- 3. Chick list
- 4. log book & portfolio

- 5. Procedure/case presentation
- 6. One MCQ examination in f the second year and one in the third year
- 7. Objective structured clinical examination
- 8. Check list evaluation of live or recorded performance
- 9. Patient survey
- 10.360o global rating
- ii. Time schedule: 2nd part
- iii. Marks: 1200 marks.(500 didactic,400 oral,300 practical)

8. List of references

I. Lectures notes

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

II. Essential books

Andrology (male reproductive health and dysfunction, 2010). (Eberhard Nieschlag, Hermann M Behre, and Susan Nieschlag)

III. Recommended books

Reproductive endocrinology (Samuel SC Yein, Robert B Jaffe, and Robert L Barbieri). 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
- Asian J of Andrology website (www.AJA.org)

• fertility and sterility

9. Signatures

Course Coordinators:	Head of the Department:
Date:	Date:
••••••	••••••

ANNEX 2 Program Academic Reference Standards (ARS)

1- Graduate attributes for medical doctorate

The Graduate (after residence training and medical doctorate years of study) must:

- **1-** Demonstrate competency and mastery of basics, methods and tools of scientific research and clinical audit in the chosen field of andrology and STDs.
- **2-** Have continuous ability to add knowledge to the andrology and STDs through research and publication.
- **3-** Appraise and utilise relevant scientific knowledge to continuously update and improve clinical practice.
- **4-** Acquire excellent level of medical knowledge in the basic biomedical, behavioural and clinical sciences, medical ethics and medical jurisprudence and apply such knowledge in patient care and scientific research.
- **5-** Function as a leader of a team to provide patient care that is appropriate, effective and compassionate for dealing with health problems and health promotion.
- **6-** Identify and create solutions for health problems in his specialty.
- **7-** Acquire an in depth understanding of common areas of andrology and STDs, from basic clinical care to evidence based clinical application, and possession of required skills to manage independently all problems in these areas.
- 8- Demonstrate leadership competencies including 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.

- **9-** Function as teacher in relation to colleagues, medical students and other health professions.
- **10-** Master decision making capabilities in different situations related to his field of practice.
- 11- Show leadership responsiveness to the larger context of the health care system, including e.g. the organization of health care, partnership with health care providers and managers, practice of cost-effective health care, health economics, and resource allocations.
- 12- Demonstrate in depth awareness of public health and health policy issues including independent ability to improve health care, and identify and carryout systembased improvement of care.
- **13** Show model attitudes and professionalism.
- **14-** Demonstrate commitment for lifelong learning and maintenance of competence and ability for continuous medical education and learning in subsequent stages and in theandrology and STDs or one of its subspecialties.
- **15** Use recent technologies to improve his practice in the andrology and STDsfield.
- **16-** Share in updating and improving clinical practice in the andrology and STDsfield.

2- Competency based Standards for medical doctorate

2.1- Knowledge and understanding

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

- **2-1-A-** Established, updated and evidence- based theories, basics and developments of andrology and STDs and relevant sciences.
- 2-1-B- Basics, methods and ethics of medical research.
- **2-1-C-** Ethical and medicologal principles of medical practice related to andrology and STDs field.
- **2-1-D-** Principles and measurements of quality in theandrology and STDs field.
- **2-1-E-** Principles and efforts for maintainace and improvements of public health.

2- Intellectual skills

By the end of the program, the graduate should be able to demonstrate thefollowing

- **2-2-A-** Application of basic and other relevant science to solve specialty related Problems.
- **2-2-B-** Problem solving based on available data.
- **2-2-C-** Involvement in research studies related to the andrology and STDs
- 2-2-D- Writing scientific papers.
- 2-2-E- Risk evaluation in the related clinical practice.
- **2-2-F-** Planning for performance improvement in the andrology and STDs field.
- 2-2-G- Creation and innovation in the andrology and STDs field.
- 2-2-H- Evidence based discussion.
- **2-2-I-** Decision making in different situations related to the andrology and STDsfields.

2.3- Clinical skills

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

Competency-based outcomes for Patient Care:-

- 2-3-A- MD students must be able to provide extensive level of patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health extensive level means in depth understanding and from basic science to evidence based clinical application and possession of skills to manage independently all problems in his field of practice.
- **2-3-B-** Master patient care skills relevant to that andrology and STDs for patients with all diagnoses and procedures.
- **2-3-C-** Write and evaluate reports for situations related to the field of andrology and STDs.

2.4- General skills

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

- **2-4-A-**Master 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 competently all information sources and technology to improve his practice.
- 2-4-C- Master skills of teaching and evaluating others.
 - Competency-based objectives for Interpersonal and Communication Skills
- **2-4-D-**Master interpersonal and communication skills that result in effective information exchange and teaming with patients, their families, and other health professionals.
 - **Les Competency-based objectives for Professionalism**

- **2-4-E-**Master Professionalism behavior, 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- Participate in improvement of the education system.
- **2-4-H-** Demonstrate skills of leading scientific meetings including time management
- 2-4-O- Demonstrate skills of self and continuous learning

Annex 3, Methods of teaching/learning

Annex 3, Methods of teaching/learning

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

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 MD students.

Method	Practical skills	K	Intellectu al	General skills			
	Patient care	К	_	based	al and communica	Professionali sm	Systems- based practice
Record review	X	X	X		Х	Х	Х
Checklist	Х				Х		
Global rating	Х	Х	Х	Х	Х	Х	Х
Simulations	Х	X	Х	Х	Х	Х	
Portfolios	Х	Х	Х	Х	Х		
Standardized oral examination	Х	X	Х	Х	Х		Х
Written examination	Х	Х	Х	Х			Х
Procedure/ case log	Х	Х					
OSCE	Х	X	Х	X	Х	Х	Х

Annex 4, Glossary of MD students 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 MD 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 MD doctor's performance on checklists and provide feedback for history taking, physical examination, and communication skills. Physicians may also rate the MD doctor's performance.
- Objective Structured Clinical Examination (OSCE) A series of stations with standardized tasks for the MD doctors to perform. Standardized patients and other assessment methods often are combined in an OSCE. An observer or the standardized patient may evaluate the MD doctors.
- Procedure or Case Logs MD 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 MD 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 MD doctors, faculty, nurses, clerks, and other clinical staff evaluate MD doctors from different perspectives using similar rating forms.
- ❖ Portfolios A portfolio is a set of project reports that are prepared by the MD doctors to document projects completed during the MD 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 multiplechoice 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 MD 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 MD doctors.

Annex 5, program evaluation tools

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

Annex 6, program Correlations:

مصفوفة توافق المعايير القومية القياسية العامة لبرامج الدكتوراة مع المعايير الأكاديمية المعتمدة من كلية الطب 🗌 جامعة أسيوط لدرجة الدكتوراة في طب وجراحة امراض الذكورة والتناسل

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

1- Graduate attributes

Faculty ARS	NAQAAE General ARS for postgraduate Programs
1- Demonstrate competency and mastery of basics, methods and tools of scientific research and clinical audit in andrology and STDs.	١ التقان أساسيات و منهجيات البحث العلمي
2- Have continuous ability to add knowledge new developments to andrology and STDs.through research and publication.	٢-العمل المستمر علي الإضافة للمعارف في مجال التخصص
3- Appraise and utilise scientific knowledge to continuously update and improve clinical practice and relevant basic sciences.	٣-تطبيق المنهج التحليلي والناقد للمعارف في مجال التخصص و المجالات ذات العلاقة
4- Acquire excellent level of medical knowledge in the basic biomedical, clinical, behavioural and clinical sciences, medical ethics and medical jurisprudence and apply such knowledge in patient care and scientific	 ٤-دمج المعارف المتخصصة مع المعارف ذات العلاقة مستنبطا و مطورا للعلاقات البينية بينها
 5- Function as a leader of a team to provide patient care that is appropriate, compassionate for dealing with effective and health Problems and health promotion. 7- Acquire an in depth understanding of 	٥-إظهار وعيا عميقا بالمشاكل الجارية و النظريات الحديثة في مجال التخصص
common areas of speciality, from basic clinical care to evidence based clinical application, and possession of skills to manage independently all problems in these areas.	
6- Identify and create solutions for health problems in andrology and STDs	٦-تحديد المشكلات المهنية و إيجاد حلولا مبتكرة لحلها
5- Function as a leader of a team to	٧-إتقان نطاقا واسعا من المهارات المهنية في

provide patient care that is appropriate, effective and compassionate for dealing with health problems and health promotion. 7- Acquire an in depth understanding of common areas of andrology and STDs., from basic clinical care to evidence based clinical application, and possession of skills to manage independently all problems in these areas.	مجال التخصص
16- Share in updating and improving clinical practice in andrology and STDs.9- Function as teacher in relation to colleagues, medical students and other health professions.	 ۸- التوجه نحو تطویر طرق و أدوات و أسالیب جدیدة للمزاولة المهنیة
15- Use recent technologies to improve his practice in andrology and STDs.	9 استخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية
 8- Demonstrate leadership competencies including 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. 5- Function as a leader of a team to provide patient care that is appropriate, effective and compassionate for dealing with health problems and health promotion. 	• ١ -التواصل بفاعلية و قيادة فريق عمل في سياقات مهنية مختلفة
10- Master decision making capabilities in different situations related to andrology sexology and STDs.	١١ اتخاذ القرار في ظل المعلومات المتاحة
11- Show leadership 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.	۱۲ -توظیف الموارد المتاحة بکفاءة و تنمیتها والعمل علی إیجاد موارد جدیدة
12- Demonstrate in depth awareness of public health and health policy issues including	١٣ –الوعي بدوره في تنمية المجتمع والحفاظ

independent ability to improve health care, and identify and carryout system-based improvement of care.	على البيئة
13- Show model attitudes and professionalism.	١٤ - التصرف بما يعكس الالتزام بالنزاهة و المصداقية و قواعد المهنة
 14- Demonstrate commitment for lifelong learning and maintenance of competence and ability for continuous medical education and learning in subsequent stages and in andrology and STDs.or one of its subspecialties. 15- Use recent technologies to improve his practice in andrology and STDs. 	۱۰ − الالتزام بالتنمية الذاتية المستمرة و نقل علمه و خبراته للآخرين

2- Academic standards

Faculty ARS	NAQAAE General ARS for postgraduate Programs				
2.1. A- Established, updated and evidence- based theories, basics and developments of andrology, sexology and STD and relevant sciences.	 ١-١-أ- النظريات و الأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة 				
2.1. B- Basic, methods and ethics of medical research.	٢-١-ب -أساسيات و منهجيات و أخلاقياتالبحث العلمي و أدواته المختلفة				
2.1. C- Ethical and medicologal principles of medical practice related to andrology and STDs	 ١-٢-ج- المبادئ الأخلاقية و القانونية للممارسة المهنية في مجال التخصص 				
2.1. D- Principles and measurements of quality in andrology and STDs	٢-١-د مبادئ و أساسيات الجودة في الممارسة المهنية في مجال التخصص				
2.1. E- Principles and efforts for maintains and improvements of public health.	 ١-١-هـ - المعارف المتعلقة بآثار ممارسته المهنية على البيئة وطرق تنمية البيئة وصيانتها 				
2.2. A- Application of basic and other relevant science to solve andrology and STDs.related problems.	 ٢-٢-أ -تحليل و تقييم المعلومات في مجال التخصص و القياس عليها و الاستنباط منها 				
2.2.B- Problem solving based on available data.	٢-٢-ب -حل المشاكل المتخصصة استنادا علي المعطيات المتاحة				
2.2.C- Involvement in research studies related to andrology and STDs	٢-٢-ج -إجراء دراسات بحثية تضيف إلى المعارف				
2.2. D- Writing scientific papers.	٢-٢-د- صياغة أوراق علمية				
2.2. E- Risk evaluation in the related clinical practice.	٢-٢—ه تقييم المخاطر في الممارسات المهنية				
2.2.F- Planning for performance improvement in andrology sexologyand STDs.	٢-٢-و -التخطيط لتطوير الأداء في مجال التخصص				
2-2-G- Creation and innovation in the andrology and STDs	٢-٢-ز - الابتكار /الإبداع				
2.2. H- Evidence – based discussion.	٢-٢-ح- الحوار والنقاش المبني علي البراهين والأدلة				

2.2.I- Discussion making in different situations	٢-٢-ط -اتخاذ القرارات المهنية في سياقات
related to andrology and STDs	مهنبة مختلفة
 2.3. A- MD students must be able to provide extensive level of patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health extensive level means in depth understanding and from basic science to evidence – based clinical application and possession of skills to manage independently all problems in andrology and STDs 2.3. B- Master patient care skills relevant to andrology and STDs.or patients with all diagnoses and procedures. 	7-٣-أ -إتقان المهارات المهنية الأساسية و الحديثة في مجال التخصص
2.3. C- Write and evaluate reports for situations related to the field of andrology and STDs	٣-٢-ب- كتابة و تقييم التقارير المهنية.
2.4.A-Master 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	٣-٣-ج -تقييم و تطوير الطرق و الأدوات القائمة في مجال التخصص
2.4.B- Use competently all information sources and technology to improve his practice.	 ۲-۳-د - استخدام الوسائل التكنولوجية بما يخدم الممارسة المهنية
2.4.A-Master 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.G- Participate in improvement of the education system.	٢-٣-هـ -التخطيط لتطوير الممارسة المهنية وتنمية أداء الآخرين

II-Program ARS versus program ILOs

Comparison between ARS- ILOS for medical doctorate for Andrology, Sexology and STDs.

(ARS)	(ILOs)
2-1- Knowledge and understanding	2-1- Knowledge and understanding
2-1-A- Established, updated and evidence-based Theories, Basics and developments of v and relevant sciences.	2-1-A- Demonstrate in-depth knowledge and understanding of theories, basics and updated biomedical, clinical epidemiological and socio behavioral science relevant to his andrology and STDs as well as the evidence — based application of this knowledge to patient care.
2-1-B Basic, methods and ethics of medical research.	2-1-B- Explain basics, methodology, tools and ethics of scientific medical, clinical research.
2-1-C- Ethical and medicologal principles of medical practice related to andrology and STDs field.	2-1-C- Mention ethical, medico logical principles and bylaws relevant to his practice in the field of andrology and STDs.
2-1-D- Principles and measurements of quality in the andrology and STDs field.	2-1-D- Mention principles and measurements of quality assurance and quality improvement in medical education and in clinical practice of andrology and STDs.
2-1-E -Principles and efforts for maintains and improvements of public health.	2-1-E- Mention health care system, public health and health policy, issues relevant to this Speciality and principles and methods of system — based improvement of patient care in common health problems of the field of andrology sexologyand STDs.
<u>2-2- Intellectual skills</u> :	2-2- Intellectual skills:
2-2-A- Application of basic and other relevant science to solve	2-2-A- Apply the basic and clinically supportive sciences which are

andrology and STDs related problems.	appropriate to andrology and STDs related conditions / problem / topics.
2-2-B- Problem solving based on available data.	2-2-B- Demonstrate an investigatory and analytic thinking "problem – solving "approaches to clinical situation related to andrology and STDs.
2-2-C- Involvement in research studies related to the andrology and STDs.	2-2-C- Plan research projects.
2-2-D Writing scientific papers.	2-2-D- Write scientific paper.
2-2-E- Risk evaluation in the related clinical practice.	2-2-E- Participate in clinical risk management as a part of clinical governance.
2-2-F- Planning for performance improvement in the andrology and STDs field.	2-2-F- Plan for quality improvement in the field of medical education and clinical practice in andrology sexologyand STDs.
2-2-G- Creation and innovation in the andrology and STDs field.	2-2-G- Create / innovate plans, systems, and other issues for improvement of performance in his practice.
2-2-H- Evidence – based discussion.	2-2-H- Present and defend his / her data in front of a panel of experts.
2-2-I- Decision making in different situations related to andrology and STDs fields.	2-2-I- Formulate management plans and alternative decisions in different situations in the field of the andrology sexologyand STDs.

continuous	continuous
(ARS)	(ILOs)

2-3- Clinical skills:

- 2-3-A- MD students must be able to provide extensive level of patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health extensive level means in depth understanding and from basic science to evidence based clinical application and possession of skills to manage independently all problems in his field of practice.
- **2-3-B-** Master patient care skills relevant to andrology and STDs for patients with all diagnoses and procedures.

2/3/1/Practical skills (Patient care :)

- 2-3-1-A- Provide extensive level of patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health. p.s. Extensive level means in-depth understanding from basic science to evidence based clinical application and possession of skills to manage independently all problems in field of practice.
- **2-3-1-B-** Provide extensive level of patient care for patients with all common diagnoses and for uncomplicated procedures related to andrology sexology and STDs.
- 2-3-1-C- Provide extensive level of patient care for non-routine, complicated patients and under increasingly difficult circumstances, while demonstrating compassionate, appropriate and effective care.
- 2-3-1-D- Perform diagnostic and therapeutic procedures considered essential in the field of *Andrology, Sexology and STDs*.
- 2-3-1-E- Handles unexpected complications, while demonstrating compassion and sensitivity to patient needs and concerns.
- 2-3-1-F- Communicate effectively and demonstrate caring and respectful behaviors when interacting with patients and their families in the andrology and STDs related situations.
- **2-3-1-G-** Gather essential and accurate information about patients of the

andrology and STDs related conditions.

- 2-3-1-H Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence and clinical judgment for the andrology and STDs related conditions.
- **2-3-1-I-** Develop and carry out patient management plans for andrology and STDs related conditions.
- **2-3-1-J-** Counsel and educate patients and their families about andrology and STDs related conditions.
- **2-3-1-K-** Use information technology to support patient care decisions and patient education in all andrology and STDs related clinical situations.
- **2-3-1-L-** Perform competently all medical and invasive procedures considered essential for the andrology and STDs related conditions / area of practices.
- **2-3-1-M-** Provide health care services aimed at preventing the andrology and STDs related health problems.
- **2-3-1-N-** Lead health care professionals, including those from other disciplines, to provide patient-focused care in andrology and STDs related conditions.

- **2-3-C-** Write and evaluate reports for situations related to the field of andrology and STDs.
- 2-3-1-O- Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets. (Write and evaluate a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and evaluating comprehensive timely and legible medical records).

2-4- General skills

2-4-A- Master 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

2/3/2 General skills

- **2-3-2-A-** Demonstrate the competency of continuous evaluation of different types of care provision to patients in the different area of andrology and STDs.
- **2-3-2-B-** Appraise scientific evidence.
- **2-3-2-C-** Continuously improve patient care based on constant self-evaluation and <u>life-long</u> learning.
- **2-3-2-D**. Participate in clinical audit and research projects.
- **2-3-2-E-** Practice skills of evidence-based Medicine (EBM).
- 2-3-2-G- Design logbooks.
- **2-3-2-H-** Design clinical guidelines and standard protocols of management.
- **2-3-2-I-** Appraise evidence from scientific studies related to the patients' health problems.

2-4-B- Use competently all information sources and technology to improve his practice.	2-3-2-J- Apply knowledge of study designs and statistical methods to the appraisal of clinical studies.
	2-3-2-K - Use information technology to manage information, access online medical information; for the important topics.
2-4-C- Master skills of teaching and evaluating others.	2-3-2-F- Educate and evaluate students, residents and other health professionals.
2-4-D- Master interpersonal and communication Skills that result in effective information exchange and teaming with patients, their families, and other health professionals.	 2-3-2-L- Master interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals, including:- Present a case. Write a consultation note. Inform patients of a diagnosis and therapeutic plan Completing and maintaining comprehensive. Timely and legible medical records. Teamwork skills. 2-3-2-M- Create and sustain a therapeutic and ethically sound relationship with patients. 2-3-2-N- Elicit and provide information using effective nonverbal, explanatory,
	questioning, and writing skills. 2-3-2-O- Work effectively with others as a member or leader of a health care team or other professional group.
2-4-E- Master Professionalism behavior, as manifested through a commitment to carrying out professional responsibilities,	2-3-2-P- Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society.

adherence to ethical principles, and sensitivity to a diverse patient population.	 2-3-2-Q- Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices. 2-3-2-R- Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.
 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- Participate in improvement of the education system. 	 2-3-2-S- Work effectively in health care delivery settings and systems related to andrology and STDs including good administrative and time management. 2-3-2-T- Practice cost-effective health care and resource allocation that does not compromise quality of care. 2-3-2-U- Advocate for quality patient care and assist patients in dealing with system complexities. 2-3-2-V- Design, monitor and evaluate specification of under and post graduate courses and programs.
2-4-H- Demonstrate skills of leading scientific meetings including time management	 2-3-2-W- Act as a chair man for scientific meetings including time management 2-3-2-S- Work effectively in health care delivery settings and systems related to andrology and STDs including good administrative and time management.
2 -4-O- Demonstrate skills of self and continuous learning .	From A to H

III - Program matrix

Knowledge and understanding

Course	Program covered ILOs						
	2/1/A	2/1/B	2/1/C		2/1/E		
Course 1 : Medical statistics		✓					
Course 2: Research Methodology		✓					
Course 3: Medicolegal Aspects and Ethics in Medical Practice and Scientific Research			√				
Course4: Surgical Anatomy	✓						
Course 5: - General Surgery	✓						
Advanced							
Course 6: Clinical Pathology	✓						
Advanced & Medical Microbiology							
and Immunology advanced							
Course 7: Psychiatry and	✓	✓					
Psychosexual Disorders advanced							
Course 8:-Internal medicine advanced	✓	✓					
Course 9: Advanced Andrology ,Venorology sexology, and Sexually transmitted diseases	√	√	√	√	√		

Intellectual

Course	Program covered ILOs								
	2/2/A	2/2/B	2/2/C	2/2/D	2/2/E	2/2/F	2/2/G	2/2/H	2/2/I
Course 1 : Medical statistics		√	✓				✓		
course 2 : Research Methodology		√	√				√		
Course 3: Medicolegal Aspects and Ethics in Medical Practice and Scientific Research							✓		
Course4: Surgical Anatomy	✓	√				✓		✓	
Course 5: - General Surgery Advanced	✓	√							
Course 6: Clinical Pathology Advanced & Medical Microbiology and Immunology advanced	*	✓							
Course 7: Psychiatry and Psychosexual Disorders advanced	✓	√							
Course 8:-Internal medicine advanced	✓	√							
Course 9: Advanced Andrology ,Venorology sexology, and Sexually transmitted diseases	√	√	√	√	√	√	√	√	√

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 : Medical statistics									
course 2 : Research Methodology									
Course 3: Medicolegal Aspects and Ethics in Medical Practice and Scientific Research				>				✓	
Course4: Surgical Anatomy									
Course 5: - General Surgery Advanced	√		√	√	√	√			
Course 6: Clinical Pathology Advanced &Medical Microbiology and Immunology advanced									
Course 7: Psychiatry and Psychosexual Disorders advanced	√		√	√	√	√			
Course 8:- Internal	√		✓	√	✓	✓			

medicine advanced								
Course 9: Advanced Andrology ,Venorology sexology, and Sexually transmitted	~	√	•	√	√	√	√	\
diseases								

Practical Skills (Patient care)

Course	Program covered ILOs									
	2/3/1/ I	2/3/1/ J	2/3/1/ K	2/3/1/ L	2/3/1/ M	2/3/1/ N	2/3/1/ 0			
Course 1 : Medical statistics										
course 2 : Research Methodology										
Course 3: Medicolegal Aspects and Ethics in Medical Practice and Scientific Research	✓	✓					✓			
Course4: Surgical Anatomy										
Course 5: - General Surgery Advanced						√				
Course 6: Clinical Pathology Advanced &Medical Microbiology and Immunology advanced										
Course 7: Psychiatry and Psychosexual Disorders advanced						√				
Course 8:-Internal medicine advanced						√				
Course 9: Advanced Andrology, Venorology sexology, and Sexually transmitted diseases	√	√	√	√	√	√	√			

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 : Medical statistics		✓								
course 2 : Research Methodology		✓		✓	✓					
Course 3: Medicolegal Aspects and Ethics in Medical Practice and Scientific Research										
Course4: Surgical Anatomy		✓		✓		✓				
Course 5: - General Surgery Advanced	✓		✓	✓	✓	✓				
Course 6: Clinical Pathology Advanced &Medical Microbiology and Immunology advanced		✓		✓		✓				
Course 7: Psychiatry and Psychosexual Disorders advanced	√		√	√	√	√				
Course 8:-Internal medicine advanced	√		√	✓	✓	✓				
Course 9: Advanced Andrology, Venorology sexology, and Sexually transmitted diseases	√	√	√	√	√	√	√	√		

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 /0	2/3/2 /P			
Course 1 : Medical statistics	✓	✓	✓								
course 2 : Research Methodology	✓	✓									
Course 3: Medicolegal Aspects and Ethics in Medical Practice and Scientific Research				√							
Course4: Surgical Anatomy	√		√	√		√	√	✓			
Course 5: - General Surgery Advanced			✓	✓		√	√	√			
Course 6: Clinical Pathology Advanced &Medical Microbiology and Immunology advanced						✓					
Course 7: Psychiatry and Psychosexual Disorders advanced			√	√							
Course 8:-Internal medicine advanced			√	√							
Course 9: Advanced Andrology, Venorology sexology, and Sexually transmitted diseases	√	√	√	√	√	√	√	√			

General Skills

Course	Program covered ILOs						
	2/3/2/	2/3/2/R	2/3/2/S	2/3/2/T	2/3/2/	2/3/2/V	2/3/2/
	Q				U		W
Course 1 : Medical statistics							
course 2 : Research Methodology							
Course 3: Medicolegal Aspects and Ethics in Medical Practice and Scientific Research							
Course4: Surgical Anatomy			✓				
Course 5: - General Surgery Advanced			✓				
Course 6: Clinical Pathology Advanced & Medical Microbiology and Immunology advanced	√	√	√				
Course 7: Psychiatry and Psychosexual Disorders advanced	>		>				
Course 8:-Internal medicine advanced	✓		✓				
Course 9: Advanced Andrology ,Venorology sexology, and Sexually transmitted diseases	✓	✓	✓	✓	✓	√	√

Annex 7, Additional information: