



**Faculty of Medicine
Ain Shams University**

Postgraduate Studies

**Master of Science in Dermatology,
Venereology & Andrology**

**درجة الماجستير في طب الامراض الجلدية، التناسلية
وأمرض الذكورة**

Program Code: DVA600

***Program Guide and
Logbook***

Candidate Curriculum vitae

[Name]

**Please attach
your recent
photo**

[telephone no]

[mobile no]

[mailing address]

[email address]

[postcode]

Experience

[organization]

[your present job title]

[start date]

[location]

[responsibilities]

[organization]

[previous job title]

[start and end dates]

[location]

[responsibilities]

[organization]

[previous job title]

[start and end dates]

[location]

[responsibilities]

Education:

[certificates]

[start and end dates]

[school or college]

Training

[any other training that will be useful in your job]

Filled by post graduate authorities

Date of Registration:

First semester:

Second semester:

Third semester:

Fourth semester:

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I – Welcome Statement:

The Department of **Dermatology, Venereology and Andrology** welcomes you to the Master of **Science in Dermatology, Venereology and Andrology**. As a department we are committed to medical student education and continuously strive to improve your educational experience.

This handbook presents information guide and logbook activity of this degree administered by the **Dermatology, Venereology and Andrology** department, Faculty of Medicine, Ain Shams University.

II - Mission Statement:

The Faculty of Medicine, Ain Shams University graduates trained physicians, with competitive skills at both national and regional levels, who are capable of teaching, learning and life long training, and are committed to the medical service standards and professional ethics. The faculty supports the overall continuous development of programs and courses and scientific research with emphasis on the expansion of applied scientific research and health care programs to serve needs of community and enhancement of environmental development.

The mission of this degree is *to graduate competent specialists in Dermatology, Venereology and Andrology*.

III – Senior Supervisor and Affiliated Departments and Hospitals

Senior Supervisor

Prof.: Heba Diab

E-mail: Hebadiab70@yahoo.com

Affiliated Departments and Hospitals

Dermatology, Venereology and Andrology department – Faculty of Medicine-
Ain Shams University

IV – Program Specifications

A- Basic Information

1 Program title:

Master of Science in Dermatology, Venereology and Andrology

2. Program type: Single Double Multiple

3. Faculty: of Medicine

4. Department

Department of **Dermatology, Venereology and Andrology**

5. Assistant coordinator

.....

6. Coordinator

.....

7. Last date of program approval:

.....

B- Professional Information:

1. Program Aims:

The primary purpose of this program is to provide appropriate level of knowledge, clinical skills, attitudes, research skills and competence to the postgraduate students to be awarded a certificate of completion of Master of Science in Dermatology, Venereology and Andrology which is a prerequisite to a career as a specialist working in hospitals and/or community settings.

2. Intended Learning Outcomes (ILOs):

a. Knowledge and Understanding:

By the end of the program the candidate will be able to:

a1- Identify basic Dermatology, Venereology & Andrology, physiology, Biochemistry, Pathology, Microbiology& Immunology, Psychiatry& Sexology, Surgery and Internal Medicine.

a2- Demonstrate awareness of the causes, pathophysiology, clinical features, laboratory findings, treatments, prognosis and preventive measures for the common dermatological and venereal diseases, medical & surgical approaches in management of andrology related problems and infertility in the rapidly changing medical field.

b. Intellectual Skills:

By the end of the program the candidate will be able to:

b1- Classify patient's problems according to priority.

b2 -Select appropriate level of care and treatment on individual basis and available resources.

c. Professional and Practical Skills:

By the end of the program the candidate will be able to:

- c1- Perform comprehensive dermatological, venereological and andrological assessment.
- c2- Design management and follow up plan for any patient at any age or in patients with multiple co-morbidities.
- c3- The ability to communicate knowledge, opinion and health education to colleagues, paramedical staff, and the public in oral and written forms.

d. General and Transferable Skills:

By the end of the program the candidate will be able to:

- d1- Demonstrate effective communication with patients, relatives and colleagues.
- d2- Inculcate the habit of lifelong learning.
- d3- Cope with ethical and legal issues which occur during the management of patients with venereological or fertility related medical problems.
- d 4- Educate patients and their families effectively, especially patients with chronic recalcitrant dermatological diseases or sexually transmitted diseases.
- d 5- Demonstrate the ability to work in clinical teams and to have the necessary leadership skills.
- d 6- Demonstrate competence in the use and management of health information and medical research.

C- Academic Standards: (Benchmarks):

Academic Reference Standards by NAQAEE guided by:

Curriculum for Dermatology, Venereology: The University of California, San Francisco, the University of California, Irvine (UCI)

Dermatology Residency Training Program is accredited by the Accreditation Council for Graduate Medical Education

(ACGME).Curriculum of Andrology & infertility: curriculum of the Andrology Fellowship at Northwestern university, Urology department.

D Curriculum structure and contents:

D a- Program duration: 2 years (4 semesters).

D b- Program structure:

| الساعات المعتمدة | الكود | المقررات الدراسية | |
|---------------------|-------------------------|---|------------------------|
| | | | |
| ١ | DVA6001 | الكيمياء الحيوية | الجزء الأول |
| ٠,٥ | DVA6002 | الفسولوجي | |
| ٠,٥ | DVA6003 | علم الكائنات الدقيقة والمناعة | |
| ١ | DVA6004 | البياتولوجي | |
| 2 | DVA6005 DVA6006 | الباطنة العامة و الجراحة العامة | |
| ١ | DVA6007 | علم الأمراض النفسية والجنسية | |
| | | | |
| 18 | | | الرسالة |
| 9 | DVA6008 | الأمراض الجلدية | الجزء الثاني |
| 8 | DVA6009 | الأمراض المنقولة جنسيا و علم الذكورة و عقم الرجال | |
| ١ | E6008 E6004 E6029 | يختار الطالب مادة واحدة من : الإحصاء الوراثة (غير متاح) أخلاقيات واداب مزاوله المهنة | المقررات الاختيارية |
| 6 | | | كراسة الاثشطة |
| | | | اعمال السنة |
| 48 | | | المجموع |

E- Program Courses:

a. Compulsory:

| Code | Course title | No. of hours | | |
|---------|--|--------------|--------|------|
| | | Lect. | C/P | SDL. |
| DVA6001 | Biochemistry | 15 hrs | | |
| DVA6002 | Physiology | 15 hrs | | |
| DVA6003 | Bacteriology & Immunology | | | |
| DVA6004 | Pathology | 15 hrs | | |
| DVA6005 | Internal medicine & surgery | 30 hrs | | |
| DVA6006 | | | | |
| DVA6007 | Psychiatry & Sexology | 15 hrs | | |
| DVA6008 | Dermatology | 112.5 hrs | 45 hrs | |
| DVA6009 | Venereology, Andrology and infertility | 105hrs | 30 hrs | |

b. Elective: one of the following courses:

| Code | Course title | No. of hours | | |
|-------------------|--------------------------|--------------|----------|-----|
| | | Lect. | Clinical | SDL |
| E600 ^٨ | Medical statistics | 12 | 8 | |
| | | 15 hrs | | |
| E600 ^٤ | Genetics (not available) | | | |
| | | | | |
| E60 ^{٢٩} | Medical Ethics | | | |
| | | | | |

F- Program Admission Requirements:

ماده ٨ : يشترط لقياد الطالب للحصول على درجة الدبلوم العالى أو درجة الماجستير :-

١- أن يكون حاصلًا على درجة البكالوريوس في الطب والجراحة من إحدى جامعات جمهورية مصر

العربية أو على درجة معادلة فيما عدا درجتى الماجستير والدبلوم العالى فى جودة الرعاية

الصحية ، فيمكن للمتقدم أن يكون حاصل على اى من بكالوريوس الصيدلة أو طب الأسنان أو

التمريض ويتم المفاضلة بين الطلبة المتقدمين طبقاً للأعداد التى سيحددها كل قسم مع مراعاة

النقاط التالية :-

- أ- تقوم الكلية بعمل تنسيق داخلي للطلاب المتقدمين طبقاً للمعايير والأوزان التالية :-
- المعيار الأول/ التقدير العام للبيكالوريوس ويتم تقييمه كالتالي :-
مقبول = (١) ، جيد = (٢) ، جيد جداً = (٣) ، امتياز = (٤)
 - المعيار الثاني/ الجامعة التي تخرج منها الطالب :-
كلية الطب (جامعة عين شمس) (٤) كليات الطب الأخرى (٢)
 - ويكون التنسيق في صورة جدول كالتالي :-

| اسم الطالب | التقدير العام | جامعة التخرج | المجموع |
|------------|---------------|--------------|---------|
| | | | |
| | | | |

- وعند التساوى في جميع النقاط يتم التفضيل بين الطلاب عن طريق إضافة درجة مادة التخصص مضافاً إليها درجات المجموع التراكمي وإعادة ترتيب الطلاب .
- تقوم الكلية بإعلام الطلاب بمعايير التنسيق الداخلي قبل تقديمهم لأوراق التسجيل عن طريق اعلان هذه المعايير .
- ب- تعلن نتائج تنسيق الطلاب بعد إغلاق فترة التقدم للتسجيل .
- علماً بأن هذه القواعد لا تطبق على كلاً من الطبيب المقيم الأساسي والطبيب المقيم الزائر، والطبيب المقيم المنتدب والاتفاقيات الخاصة والوافدين .
- ٢- أن يكون قد أمضى سنة التدريب (الامتياز) .
- ٣- موافقة جهة العمل .
- ٤- تسديد الرسوم ومصاريف التدريب واستهلاك الأجهزة واستيفاء المستندات المطلوبة في الملحق (١) .
- ٥- التفرغ للدراسة لمدة فصلين دراسيين قبل دخول امتحان الجزء الثاني، ويمكن أن يتم التدريب لنفس المدة على الأقل في أحد المستشفيات أو المراكز العلمية المعتمدة بعد استيفاء الشروط التي تحددها مجالس الأقسام المختصة .
- مادة (١١): يتم التسجيل لجميع الدرجات مرتين سنوياً من أول يوليو وحتى آخر أغسطس ، ومن أول نوفمبر وحتى آخر ديسمبر ، وتبدأ الدراسة من أول أكتوبر من كل عام للمجموعة الأولى ، وفي منتصف مارس للمجموعة الثانية ولا يسمح بدخول امتحان الجزء الأول إلا بعد انقضاء فترة الدراسة المطلوبة ، مع مراعاة إمكانية تنظيم فصل دراسي صيفي .

مادة (١٢): توزع الدراسة كل عام جامعي على فصلين دراسيين مدة كل منهما خمسة عشر أسبوعاً يبدأ الفصل الأول في أول أكتوبر ويبدأ الفصل الثاني في الأسبوع الثالث من مارس ، مع إمكانية تنظيم فصل دراسي صيفي مكثف لمدة ٦ أسابيع ، ويعادل ٣ ساعات معتمدة (نصف فصل دراسي) و يتم التسجيل للفصل الدراسي قبل أسبوعين من بدايته على الأقل بعد استيفاء الشروط حسب المقررات المسجلة ، ولا ينبغي أن يزيد العبء الدراسي في الفصل الواحد عن ٦ ساعات معتمدة للمقررات ويجوز للطالب تعديل المقررات خلال أسبوعين من بداية الفصل الدراسي (بالحذف أو الإضافة) كما يجوز له الانتساب خلال ستة أسابيع من أحد المقررات دون احتسابه رسباً فيه .

مادة (١٥) : مدة الدراسة للحصول على درجة الدبلوم أو الماجستير هي أربعة وعشرون شهراً أو أربعة فصول دراسية على جزئين يجتاز فيها الطالب برنامجاً تدريبياً متكاملاً طبقاً للساعات المعتمدة الموضحة بالباب الرابع ويستوفى خلالها المطلوب منه في كتيب متابعة الأنشطة ولا يسمح له بدخول الإمتحان قبل مناقشة الرسالة ، على ألا يتجاوز الميعاد النهائي للتقدم للإمتحان النهائي و استيفاء كراسة الأنشطة بنسبة ٧٥ % وحضور امتحانات الفصول الدراسية كاملة و اجتيازها مجمعة بنسبة ٦٠% علماً بأنه يحق للطالب التحسين مرة واحدة في حالة نجاحه أو أكثر من مرة لحين الحصول على المجموع المؤهل للإمتحان النهائي .

مادة (١٦) : مدة الدراسة في الدبلوم والماجستير الجزء الأول فصل دراسي واحد يجتاز بعدها الطالب إمتحاناً ولا يشترط النجاح فيه بالكامل للإنتقال للدراسة في الجزء الثاني ، والجزء الثاني يتطلب تفرغ الطالب للتدريب لمدة فصلين دراسيين بأحد المستشفيات أو المراكز المعتمدة من الكلية .

مادة (١٧) : يقوم الطالب لدرجة الماجستير بتسجيل موضوع الرسالة بعد اجتياز دورة أساسيات البحث العلمي ويجوز أن يناقش رسالته بعد ستة شهور من التسجيل على الأقل ، على أن يكون قد نجح في مقررات الجزء الأول بالكامل وقبل دخول إمتحان الجزء الثاني ولا يخصص لها درجات.

مادة (١٨) : يقوم طالب الماجستير بإستيفاء متطلبات تسجيل الرسالة وهي اجتياز امتحان اتقان اللغة الإنجليزية بمجموع ٤٠٠ درجة على الأقل أو ما يعادلها ودورة أساسيات البحث العلمي .

مادة (١٩): يجوز للحاصلين على درجة الدبلوم العالي التسجيل لدرجة الماجستير بالمعادلة حال استيفائهم متطلبات تسجيل رسالة الماجستير وتسجيل رسالة خلال أربع سنوات من الحصول على درجة الدبلوم العالي .

مادة (٢٠): الساعات المعتمدة لدراسة الدبلوم والماجستير ثلاثون ساعة معتمدة على الأقل يخصص منها ست ساعات لكتيب متابعة الأنشطة وتشمل ست ساعات على الأقل للجزء الأول وثمانى عشرة ساعة على الأقل للجزء الثانى ويضاف إليها ثمانية عشرة ساعة للرسالة فى الماجستير .

مادة (٣٠): مدة القيد لدرجة الدبلوم المهنى ثلاث سنوات والدبلوم العالى أربع سنوات والزمالة سبع سنوات وللماجستير أربع سنوات وللدكتوراه خمس سنوات يلغى بعدها التسجيل، ويجوز لمجلس الدراسات العليا بالجامعة الموافقة على طلب الكلية بناء على توصية القسم العلمى المختص مد التسجيل لمدة عام على الأكثر (بعد انتهاء المدد المحددة للدرجات) .

مادة (٣١): مجموع درجات الامتحان الكلية للدبلوم العالى والماجستير ١٥٠٠ درجة منها ٣٠٠ درجة للجزء الأول و ٣٠٠ درجة لامتحانات الفصول الدراسية ، ومجموع درجات الامتحان الكلية للدكتوراه ١٩٠٠ درجة منها ٣٠٠ درجة للجزء الأول إن وجد و ٤٠٠ درجة لامتحانات الفصول الدراسية ، مجموع درجات الامتحان الكلية للزمالة ٢٠٠٠ درجة منها ٣٠٠ درجة للجزء الأول و ٥٠٠ درجة للجزء الثانى و ٥٠٠ درجة للجزء الثالث و ٧٠٠ درجة لامتحانات نهاية الفصول الدراسية ، على أن يقوم كل قسم بتحديد توزيع درجات أعمال السنة على مواد الجزء الثانى الرئيسية

مادة (٣٢): يعقد إمتحان الدور الأول فى أكتوبر ونوفمبر من كل عام ويعقد إمتحان الدور الثانى فى أبريل ومايو من كل عام .

مادة (٣٣): يكون النجاح فى كل مادة من الدبلوم العالى والماجستير وزمالة عين شمس الطبية بعد الحصول على ٦٠% من الدرجة الكلية لكل لجان المادة مجتمعة على ألا تقل درجة نجاح مجموع التحريرى عن ٥٠% لكل مادة أو للمجموعة حسب لائحة القسم ، ويكون النجاح فى مواد الدكتوراه بعد الحصول على ٦٠% من درجة التحريرى والعملية والإكلينيكي والشفوى كل على حدة لكل مادة أو للمجموعة حسب لائحة القسم ، وتشمل امتحانات الأجزاء المختلفة إمتحانات تحريرية وإكلينيكية وشفوية ، وفى حالة الرسوب فى مادة أو مجموعة من المقررات يتم الإعادة فى المادة أو المجموعة فقط ، علما بأن نصف درجة لا تحول دون النجاح .

مادة (٣٤): تقسم الدرجات التي يحصل عليها الطالب في كل مقرر على الوجه التالي :-

| | | | | |
|----------------|------|------|-----------------------|---|
| A | نقاط | ٤ | ٩٠ % فأكثر | ١ |
| A ⁻ | نقاط | ٣,٦٧ | من ٨٥% حتى أقل من ٩٠ | ٢ |
| B ⁺ | نقاط | ٣,٣٣ | من ٨٠% حتى أقل من ٨٥% | ٣ |
| B | نقاط | ٣,٠٠ | من ٧٥% حتى أقل من ٨٠% | ٤ |
| B ⁻ | نقاط | ٢,٦٧ | من ٧٠% حتى أقل من ٧٥% | ٥ |
| C ⁺ | نقاط | ٢,٣٣ | من ٦٥% حتى أقل من ٧٠% | ٦ |
| C | نقاط | ٢,٠٠ | من ٦٠% حتى أقل من ٦٥% | ٧ |
| F | | صفر | أقل من ٦٠% | ٨ |

• ويتم حساب المعدل الفصلي (GPA) على أساس مجموع حاصل ضرب نقاط كل مقرر مضروباً في عدد ساعاته المعتمدة مقسوماً على الساعات المعتمدة للمقررات التي درسها الطالب في الفصل الدراسي ، كما يتم حساب المعدل التراكمي للطالب (CGPA) على أساس مجموع حاصل ضرب النقاط التي حصل عليها الطالب في كل مقرر مضروباً في عدد ساعاته المعتمدة مقسوماً على مجموع الساعات المعتمدة الكلية .

مادة (٣٥): في حالة الرسوب في مادة أو مجموعة من المقررات في الدبلوم أو الماجستير أو الدكتوراه أو درجة زمالة جامعة عين شمس الطبية يتم الإعادة في المادة أو المجموعة فقط ، ويتم حساب التقدير الفعلي الذي يحصل عليه في أول إعادة فقط ، أما إذا تكرر رسوبه فيحسب له عند النجاح تقدير ٦٤% فقط في حالة حصوله على درجة أعلى من ذلك أي 2 نقاط أي (C) ويحق للطالب الرسوب في الجزء الثاني - في حالة رغبته - تحسين درجات اعمال السنة حتى لو كان ناجحاً فيها .

مادة (٣٦): في حالة إستفاد مدة القيد يمكن لطالب الدراسات العليا إعادة التسجيل مرة أخرى ولا يعتد بالنجاح في الرسالة ويجب إعادتها، وفي حالة إلغاء تسجيل الدرجة للتأخر في تقديم بروتوكول الرسالة لطلبة الدكتوراه يمكن للطالب الاحتفاظ بدرجاته التي حصل عليها في الجزء الأول إن وجد ، أو في امتحانات الفصول الدراسية على أن يقوم الطالب بالتسجيل مره أخرى في خلال عام من تاريخ الإلغاء .

Assessment Schedule and Weighing of Assessments :

| الامتحانات | | | | | المناهج | | | |
|------------|----------|------|------|----------|-------------|---------|---------------|---------------------------------|
| | أكليينكى | شغوى | عملى | التحريرى | | الساعات | الكود | المقررات الدراسية |
| | | | | الدرجة | عدد الأوراق | | | |
| 300 | | | | 100 | 1 | 1 | DVA6001 | الكيمياء الحيوية |
| | | | | | | 50 | DVA6002 | الفسيولوجى |
| | | | | | | 50 | DVA6003 | علم الكائنات الدقيقة والمناعة |
| | | 10 | | 20 | 1 | 1 | DVA6004 | البياتولوجى |
| | 40 | 20 | | 40 | 1 | 2 | DVA6005&6 | الباطنة العامة و الجراحة العامة |
| | 20 | 10 | | 20 | 1 | 1 | DVA6007 | علم الأمراض النفسية والجنسية |
| | | | | | | 18 | | الرسالة |
| 850 | 140 | 40 | | 140 | 1 | | | الأمراض الجلدية |
| | | | | 130 | 1 | 9 | DVA6008 | |
| | 140 | 40 | | 110 | 1 | 8 | DVA6009 | |
| 50 | | | | 50 | | 1 | E6008 | المقررات الاختيارية |
| | | | | | | | E6004 | |
| | | | | | | | E6029 | |
| | | | | | | 6 | | |
| 300 | | | | | | | كراسة الأنشطة | |
| 1500 | 340 | 120 | 20 | 720 | | 48 | | أعمال السنة المجموع |

H- Course Specifications:

1- BIOCHEMISTRY COURSE SPECIFICATIONS:

University: Ain Shams

Faculty of Medicine

Course specifications

Program in which the course is given: Master of Science in Dermatology, Venereology and Andrology.

Department offering the program: Department of Dermatology, Venereology and Andrology.

Department offering the course: Biochemistry Department.

Academic year: Master – 1st semester

Date of specification approval: 2016

A- Basic Information:

Title: Biochemistry

Code: DVA6001

Credit Hours: 1 hour

Lectures: 1hr/week

Total: 15 hours

B- Professional Information:

1– Overall Aims of Course:

- a- Provide appropriate level of knowledge to understand synthesis and metabolism of different skin components.
- b- Be able to understand the molecular biology.

- c- Be able to understand the mechanisms of metabolic skin diseases.
- d- Identify the importance of diagnostic enzymology and tumor markers.
- e- Identify the hormonal biology of male and female and its control on body functions.

2 - Intended Learning Outcomes of Course (ILOs):

a- Knowledge and Understanding:

By the end of the course the candidate will be able to:

- a 1- Identify biology of skin, male and female reproductive hormonal biology.
- a 2- Understand synthesis and metabolism of carbohydrates, lipids, proteins, vitamins and mineral and how its disturbances lead to dermatological diseases.
- a 3- Recognize the skin as an organ and how it interact with different body systems and homeostasis through hormonal control.

b- Intellectual Skills:

By the end of the course the candidate will be able to:

- b1- Differentiate between different metabolic skin diseases and its biologic related pathology.
- b2- predict that the effect of disturbance in the molecular biology of skin will affect many organs.

c- Professional Skills:

By the end of the course the candidate will be able to:

- c 1- Relate biochemical disturbances in skin function with related metabolic diseases and the value of enzymatic and tumor markers in early diagnosis of diseases.

d- General and Transferable Skills:

By the end of the course the candidate will be able to:

- d1- communicate with other departments of medicine.
- d 2- Acquire the habit of lifelong learning.

3- Contents:

| Topics | No. of hours | | | Signature |
|--|--------------|-----|-----|-----------|
| | L | C/P | SDL | |
| Introduction to metabolism | 5 hrs | | | |
| Carbohydrates metabolism | | | | |
| Lipid metabolism | | | | |
| Protein content of the body | | | | |
| Metabolism of proteins | | | | |
| Synthesis of important components from amino acids | | | | |
| Hormones | 4 hrs | | | |
| Heme metabolism | | | | |
| Mineral metabolism | | | | |
| Vitamines and Disease | | | | |
| Hyperuricemia | 1 hr | | | |
| Blood coagulation | | | | |
| Diagnostic enzymology | 4 hrs | | | |
| Tumor markers | | | | |
| Hepatitis markers | | | | |
| Free radicals and disease | | | | |
| Molecular Biology | | | | |
| | 1 hour | | | |

4- Teaching and Learning Methods:

4.1- Lectures & self directed learning (SDL)

5- Student Assessment Methods:

5.1 **Written exam:** to assess knowledge and intellectual skills

Assessment Schedule:

One assessment at the end of the course

Weighting of Assessments:

Final Written Exam 30

6- List of References:

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

6.2- Essential Books (Text Books):

- Harper's Biochemistry.
- Lippincott's Illustrated Biochemistry.

6.3- Periodicals, Web Sites, ... etc.

2 PHYSIOLOGY COURSE SPECIFICATIONS:

University: Ain Shams

Faculty of Medicine

Course specifications

Program in which the course is given: Master of Science in Dermatology, Venereology and Andrology.

Department offering the program: Department of Dermatology, Venereology and Andrology.

Department offering the course: Physiology Department

Academic year: Master – 1st semester

Date of specification approval: 2016

A- Basic Information:

Title: Medical Physiology

Code: DVA6002

Credit Hours: 1/2 hour

Lectures: ½ hr/week

Total: 7.5 hours

B- Professional Information:

1- Overall Aims of Course:

- a- Provide appropriate level of knowledge to understand the skin as a multi-functional organ.
- b- Be able to understand the mechanisms of barrier function of the skin, as an immune system and as a sensory organ.
- c- Be able to understand the mechanisms of skin diseases and how it can reflect systemic malfunctions.
- d- Identify how the body systems interact through hormonal and neural influences in different dermatologic diseases.
- e- Identify the physiology of male and female reproduction.

2 - Intended Learning Outcomes of Course (ILOs):

a- Knowledge and Understanding:

By the end of the course the candidate will be able to:

- a 1- Identify basic physiology of skin, male and female reproductive physiology.
- a 2- Describe the sensory function of skin and itching, physiology of skin. pigmentation,
- a 3- Recognize the skin as an organ and how it interact with different body systems and homeostasis.

b- Intellectual Skills:

By the end of the course the candidate will be able to:

- b1- Differentiate between different functions of the skin, sensory function; pain, itching, pigmentation, sweating, thermoregulation.
- b2- predict that the effect of disturbance in the physiology of skin will affect many organs and disturb homeostasis.

c- Professional Skills:

By the end of the course the candidate will be able to:

c 1- Relate physiological disturbances in skin function with related disabilities.

d- General and Transferable Skills:

By the end of the course the candidate will be able to:

d1- communicate with other departments of medicine.

d 2- Acquire the habit of lifelong learning.

3- Contents:

| Topics | No. of Hrs | | | Signature | | | |
|---|------------|-----|-----|-----------|--|--|--|
| | L | C/P | SDL | | | | |
| Homeostasis | 3 hrs | | | | | | |
| Pain | | | | | | | |
| Thermoregulation | | | | | | | |
| Fever | | | | | | | |
| Urine formation | | | | | | | |
| Renal failure | | | | | | | |
| Acid- Base balance | | | | | | | |
| Disturbance of Acid- Base disturbance | | | | | | | |
| Water and Electrolyte Regulation | | | | | | | |
| Blood elements | | | | 1 hr | | | |
| Anemia | | | | | | | |
| Capillary Circulation | | | | | | | |
| Tissue fluid formation | | | | | | | |
| Oedema | | | | | | | |
| Functions of the skin | | | | | | | |
| Physiology of Itching | | | | | | | |
| Physiology of Male Reproduction | 1 hr | | | | | | |
| Physiology of Female Reproduction | | | | | | | |
| Infertility | | | | | | | |
| Skin Circulation | 1 hr | | | | | | |
| Dermographism | | | | | | | |
| Sensory Functions of skin | | | | | | | |
| Itching | | | | | | | |
| Physiology of Pigmentation | | | | | | | |
| Skin manifestation of Endocrinal Diseases | | | | | | | |
| Physiology of Eccrine sweat glands | | | | 1.5 hr | | | |
| Physiology of Apocrine sweat glands | | | | | | | |
| Physiology of Sebaceous glands | | | | | | | |
| Physiology of Hair | | | | | | | |
| Hair cycle | | | | | | | |

4- Teaching and Learning Methods:

4.1- Lectures & self directed learning (SDL)

5- Student Assessment Methods:

5.1 **Written exam:** to assess knowledge and intellectual skills

Assessment Schedule:

One assessment at the end of the course

Weighting of Assessments:

Final Written Exam 30

6- List of References:

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

6.2- Essential Books (Text Books):

- Review of medical physiology By: William F. Ganong
- Text Book of medical physiology By : Guyton.

6.3- Periodicals, Web Sites, ... etc.

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

S- MICROBIOLOGY AND IMMUNOLOGY COURSE SPECIFICATIONS

University: Ain Shams

Faculty of Medicine

Course Specifications:

Program in which the course is given: Master of Science in Dermatology, Venereology & Andrology

Department offering the program: Department of Dermatology, Venereology & Andrology

Department offering the course: Department of Microbiology and Immunology.

Academic year: Master – 1st semester

Date of specification approval: 2016

A- Basic Information:

Title: Microbiology and Immunology

Code: DVA6003

Credit Hours: 1/2 hrs

Lecture: 1/2 hr/ wk

Total: 7.5 hrs

Coordinator:

.....

B - Professional Information:

1- Overall Course Aims:

- a- Provide the knowledge and education about the basic features of general bacteriology, virology and mycology.
- b- Familiarize postgraduate students with the common infections dermatological diseases, their microbial causes, as well as laboratory diagnosis, treatment, prevention and control.
- c- Understand immunologic basis of dermatologic diseases, its role in the patho-physiology of infectious and non- infectious diseases.

2- Intended Learning Outcomes (ILOs) from the Course:

a-Knowledge and Understanding:

- a1- Illustrate general bacterial morphology, physiology and genetics
- a2- Understand the host parasite relationship and microbial pathogenesis
- a3- Explain the physiology of the immune system, its beneficial role, as well as its detrimental role in hypersensitivity, autoimmunity and transplant rejection.
- a4- Describe the morphology, culture, antigenic structure and virulence factors of microorganisms of dermatologic and outline the diagnosis, treatment, prevention and control of these diseases.
- a5- Describe the basics of antimicrobial uses and resistance.
- a6- Understand the impact of molecular technology in microbiology and immunology

b- Intellectual Skills:

By the end of the course the candidate will be able to:

- b1- Interpret microbiological, immunological, serological and molecular reports
- b2 - Formulate a systematic approach 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.
- b3- Categorize a microorganism as a bacterium, virus or fungus according to standard taxonomy.
- .
b4 - Report and appraise a concise scientific activity according to standard scientific thinking and integrity.
- .
b5- Appreciate the danger of handling and use of infectious agents on community and environment.

c- Professional Skills:

By the end of the course the candidate will be able to:

c1- Identify medically important bacteria based on microscopic examination of stained preparations.

c2- Identify culture media and biochemical tests commonly used for bacterial identification and distinguish positive and negative results.

d- General and Transferable Skills:

By the end of the course the candidate will be able to

d1- Cope with ethical and legal issues which occur during the management of patients with sexually transmitted diseases.

3- Course Content:

| Topics | | | | Sign. |
|---|---------|-----|-----|-------|
| | L | C/P | SDL | |
| Bacterial structure, physiology, and classifications Bacterial genetics, antibacterial agents, mechanism of actions and resistance | 1 hr | | | |
| Staphylococci, Streptococci, and Enterococci | (1.5hr) | | | |
| Clostridia and other Gram positive bacilli(Corynebacteria,Liseria,bacillus group, and Actinomycosis) | | | | |
| Nisseria, Porvobacteria(Haemophyilus,Bordetella,BrucellaLegio nellaYerisinia,Pasteurella) | | | | |
| enterobacteriaceae | | | | |
| Pseudomonas,Vibrios,Campylobacter,Helicobacter Gram negative anaerobic bacteria | | | | |
| Spirochates, Mycobacteria,Clamydia,Mycoplasma, Rickettsia | | | | |
| Basic mycology: classification and antifungal agents | (1hrs) | | | |
| Basic virology ,major virus group | | | | |
| Basic immunology: immune response(tissues and cells, types) | (2 hr) | | | |
| Humoral immunity, Immunoglobulins, Complement,Ag-Ab reactions) | | | | |
| Cell mediated immunity,Cytokines, Immunity to bacterial infections and immunoprophylaxis | | | | |
| Hospital acquired infections and infection control | | | | |
| Hypersensitivity | | | | |
| Autoimmunity and tumor immunology | | | | |
| Transplantation immunity | (1 hr) | | | |
| Immunodeficiency and infections in immunocompromized host | | | | |
| Sterilization and disinfection | | | | |
| Sexually transmitted infections | (1 hrs) | | | |
| Septicaemia, Bacteraemia, FUO | | | | |
| Skin and soft tissue infections | | | | |

L: Lecture, C/P: Clinical or Practical and SDL: Self directed learning

Assessment Schedule:

One assessment at the end of the course

Weighing of Assessment:

4.1 Final Written exam 40

4- Teaching and Learning Methods:

4.1- Lectures & self directed learning (SDL)

5- Student Assessment Methods:

5.1 **Written exam:** to assess knowledge and intellectual skills 40 degrees

5 - List of References:

5.1- Course Notes

5.2- Roitt – Essential Immunology

5.3- Rook, Wilkinson and Ebling – Textbook of dermatology

4-PATHOLOGY COURSE SPECIFICATIONS

University: Ain Shams **Faculty of Medicine**

Course Specifications:

Program in which the course is given: Master of Science in Dermatology, Venereology and Andrology.

Department offering the program: Department of Dermatology, Venereology and Andrology.

Department offering the course: Department of Pathology & Dermatology, Venereology and Andrology.

Academic year: Master – 1st semester

Date of specification approval: 2016

A- Basic Information:

Title: Pathology **Code:** DVA6004

Credit Hours: 1 hr **Lecture:** 1h/w **Total:** 15 hrs

Coordinator:

.....
B - Professional Information:

1- Course Aims:

- a- Familiarize candidates with the basic dermatologic disease patterns and their underlying pathologic mechanisms as step to preparing them for clinical rounds and future as a practitioner.

- a) To promote lifelong competencies necessary for continuous professional development.
- b) Provide appropriate level of knowledge to understand the pathology of dermatologic diseases.

2- Intended Learning Outcomes (ILOs) from the Course:

a- Knowledge and Understanding:

By the end of the course the candidate will be able to:

- a1- Identify basic pathology.
- a2- Define and discuss the main dermatological disease categories that may affect the body (general pathology) as well as the basic mechanisms underlying these disorders (etiology, pathogenesis & natural history)
- a3- Describe the morphologic (gross & microscopic) changes occurring as a result of dermatologic diseases

c- Professional Skills:

By the end of the course the candidate will be able to:

- c1-Relate pathological changes with clinical picture.

b- Intellectual Skills:

By the end of the course the candidate will be able to:

- b1- Predict the signs and symptoms of a disease based on the underlying gross & microscopic tissue changes responsible for symptomatology and physical changes in patients.
- b2. Interpretation of a pathology report in a professional manner.

c- Professional Skills:

By the end of the course the candidate will be able to:

- c1-Relate pathological changes with clinical picture.

d- General and Transferable Skills:

By the end of the course the candidate will be able to

- d1- Appreciate the importance of lifelong learning and show a strong commitment to it
- d2- Use the sources of biomedical information to remain current with the advances in knowledge.
- d3. Frame a question, search the literature, collect , analyze, critically appraise and utilize the obtained information to solve a particular clinical problem according to the principles of evidenced based medicine.
- d4- Cope with ethical and legal issues which occur during the management of patients with general medical problems.

3- Course Content:

| Topics | No. of hours | | | Signature |
|---|--------------|-----|-----|-----------|
| | L | C/P | SDL | |
| Histology of skin | 4 hrs | | | |
| Inflammation-Pathogenesis | | | | |
| Inflammation-Types | | | | |
| Healing-mechanism | | | | |
| Wound healing and complication | | | | |
| Gross Pathological skin lesions and its pathological background | (3hrs) | | | |
| Basic pathological changes of the skin (epidermal and dermal) | (2hrs) | | | |
| Major histopathological patterns in different skin diseases | | | | |
| Techniques for biopsy | (1 hr) | | | |
| Granulomas | (1 hr) | | | |
| Neoplasia (classification and method of diagnosis) | (4 hrs) | | | |
| Tumours of epithelial tissue (benign and malignant) | | | | |
| Tumours of blood vessels (benign and malignant) | | | | |
| Tumours of pigmented cells (benign and malignant) | | | | |

L: Lecture, C/P: Clinical or Practical and SDL: Self directed learning

4 - Student Assessment Methods:

- 4.1 Written exam to assess knowledge.
- 4.2 Oral exam to assess skills: Pathology department.
- 4.3 Clinical exam: Dermatology department.

Weighing of Assessment:

| | |
|---------------------|----|
| 4.1 Written exam | 20 |
| 4.2 Oral exam | 10 |
| 4.1 practical exam: | 20 |
| Total | 50 |

5 - List of References:

- 5.1- Course Notes
- 5.2- *Essential Books (Text Books):*
Lever's Histopathology of the skin.

5-INTERNAL MEDICINE & GENERAL SURGERY COURSE SPECIFICATIONS

University: Ain Shams

Faculty of Medicine

Course Specifications:

Program in which the course is given: Master of Science Dermatology, Venereology and Andrology

Department offering the program: Department of Dermatology, Venereology and Andrology.

Department offering the course: Department of Internal Medicine, Department of General surgery

Academic year: Master – 1st semester

Date of specification approval: 2016

A- Basic Information:

Title: Internal medicine and general surgery

Code: DVA6005 & DVA6006

Credit Hours: 2hr

Lecture: 2h /w

Total: 30 hrs

1) INTERNAL MEDICINE & GENERAL SURGERY COURSE SPECIFICATIONS (code DVA6005)

Coordinator:

B - Professional Information:

1- Course Aims:

a- Provide the knowledge, skills and attitudes required for different medical problems with which Dermatologic patients may present with.

b- Identify definition, pathophysiology, epidemiology, features of history, examination findings differential diagnosis, investigations indicated, complications & prevention [infectious diseases] of dermatologic and sexually transmitted diseases.

c-Identify and deal with and monitor patients for side effects of systemic therapies.

2- Intended Learning Outcomes (ILOs) from the Course:

a- Knowledge and Understanding:

By the end of the course the candidate will be able to:

a1-Identify definition, pathophysiology, epidemiology, features of history, examination findings, differential diagnosis, investigations required, complications & prevention of medical conditions associated with or arise as a side effect of systemic therapies.

b- Intellectual Skills:

By the end of the course the candidate will be able to:

- b1- Diagnose common medical conditions & its differential diagnosis.
- b2 - Distinguish emergency conditions.
- b3- Relate history, examination and investigations in context with patient condition.
- b4 - Plan and carry out management strategy for different medical conditions
- b5- Monitor patients for suspected complications whether of disease complications or iatrogenic.
- b6- Interpret basic investigations of different systems.

c- Professional Skills:

By the end of the course the candidate will be able to:

- c1- Take full medical history
- c2- Examine different systems efficiently & elicit signs.
- c3- Order appropriate investigations for common medical conditions .

d- General and Transferable Skills:

By the end of the course the candidate will be able to

- d1- Demonstrate effective communication with patients, relatives and colleagues.
- d2- Cope with ethical and legal issues which occur during the management of patients with general medical problems.

3- Course Content:

| Topics | No. of hours | | | Signature |
|--|--------------|-----|-----|-----------|
| | L | C/P | SDL | |
| Clinical symptoms and signs: e.g. purpura,nail abnormalities,..... | 1hr | | | |
| Allergic manifestations | 1 hr | | | |
| Organ failure (cardiac,hepatic,renal,respiratory) | (1 hr) | | | |
| Systemic failure(shock) | | | | |
| Disorders of electrolytes and acid base balance | | | | |
| Cardiac arrhythmia | 4 hrs | | | |
| Diabetes mellitus | | | | |
| Neuropsychiatric aspects of aging | | | | |
| Disorders related to malnutrition | | | | |
| Infection in immunocompromized host/HIV | 5 hrs | | | |
| Types of haematological malignancies | | | | |
| Vasculitic disorders (differentiating parameters) | | | | |
| Connective tissue disorders (clinical aspects and investigations) | (1/2 hours) | | | |
| Altered hypothalamo-pituitary- gonadal axis | (1.5 hours) | | | |
| Pituitary hypo- and hyper function | | | | |
| Thyroid hypo- and hyperfunction | | | | |
| Approach to patients with: hepatitis, neuropathy, recurrent thrombosis, bleeding tendency | (1hr) | | | |

L: Lecture, C/P: Clinical or Practical and SDL: Self directed learning

4 - Student Assessment Methods:

4.1 Written exam to assess knowledge

4.2 Oral exam to assess skills

4.3 Clinical exam to assess skills

Weighing of Assessment:

4.1 Written exam 20

4.2 Oral exam 10

4.3 Clinical exam 20

Total 50

5 - List of References:

5.1- Course Notes

5.2- *Essential Books (Text Books):*

- Davidson’s textbook of medicine
- Current textbook of medicine
- Cecil textbook of medicine
- Harrison textbook of medicine

II) INTERNAL MEDICINE & GENERAL SURGERY COURSE
SPECIFICATIONS (code DVA6006)

Coordinator:

Prof.

B - Professional Information:

1- Course Aims:

- a) Recognize most common surgical disorders in elders.
- b) Identify when a patient’s presentation heralds a surgical emergency and manage appropriately.

2- Intended Learning Outcomes (ILOs) from the Course:

a- Knowledge and Understanding:

By the end of the course the candidate will be able to:

- a1- Identify symptoms and signs of most common surgical conditions in old age.

b- Intellectual Skills:

By the end of the course the candidate will be able to:

- b1- Differentiate surgical emergencies.
- b2- Select patient for elective surgical interventions.

c- Professional Skills:

By the end of the course the candidate will be able to:

- c1- Manage preoperative issues related to andrological and dermatological procedures.
- c2- Order appropriate investigations for surgically related andrological conditions.

d- General and Transferable Skills:

By the end of the course the candidate will be able to:

- d1 - collaborate efficiently with other colleagues in management of surgical elderly patient.

3- Course Contents:

| Topics | | | | |
|--|-----------|-----|-----|-----------|
| | L | C/P | SDL | signature |
| Shock, Hemorrhage, blood transfusion, antibiotics in surgery | (1.5 hrs) | | | |
| Surgical infections, gas gangrene and tetanus | | | | |
| Soft tissue infections. | | | | |
| Laser in surgery | (1 hr) | | | |
| Diseases of lymph nodes | 1hr | | | |
| Inflammatory bowel disease | | | | |
| Varicose veins and deep venous thrombosis | (1 hour) | | | |
| Chronic leg ulcer | 1 hr | | | |
| Lymphodema (1ry and 2ry) | 1 hr | | | |
| Basal cell carcinoma and other skin tumors | (2 hours) | | | |
| Cutaneous manifestations of breast cancer | 1hr | | | |
| Paget disease of the nipples | 1hr | | | |
| Scrotal swellings (hydrocele, varicocele, epididymis) | 2hrs | | | |
| Hernia and testicular tumors | 3 hrs | | | |
| Congenital anomalies of the external genitalia | | | | |
| Perianal suppuration and fistula | | | | |

L: Lecture, C/P: Clinical or Practical and SDL: Self directed learning

4 - Student Assessment Methods:

- 4.1 written exam to assess knowledge
- 4.2 clinical exam to assess skills.

Weighing of Assessment:

| | |
|-------------------|----|
| 4.1 Written exam | 20 |
| 4.2 Clinical exam | 20 |
| 4.3 Oral exam | 10 |
| Total | 50 |

5- List of References:

- 5.1- Course Notes.
- 5.2- Bailey and Love's Short Practice of Surgery.
- 5.3- Current Surgical Diagnosis and Treatment, 11th Edition.

6-PSYCHIATRY & SEXOLOGY COURSE SPECIFICATIONS

University: Ain Shams

Faculty of Medicine

Course Specifications:

Program in which the course is given: Master of Science in Dermatology, Venereology and Andrology

Department offering the program: Department of Dermatology, Venereology and Andrology

Department offering the course: Department of Psychiatry, Department of Dermatology, Venereology and Andrology.

Academic year: Master – 1st semester

Date of specification approval: 2016

A- Basic Information:

Title: Psychiatry and sexology

Code: DVA6007

Credit Hours: 1 hr

Lecture: 1h /w

Total: 15 hrs

Coordinator:

B - Professional Information:

1- Course Aims:

- a- Provide the knowledge and attitudes required for medical problems associated with Dermatologic and psychiatric related andrological complaints.
- b- Identify psychological sexology related interrelationship malfunctions, paraphilias and gender identity disorders.

2- Intended Learning Outcomes (ILOs) from the Course:

a- Knowledge and Understanding:

By the end of the course the candidate will be able to:

- a1- Identify psychological sexology related interrelationship diseases, gender identity disorders and paraphilias.

b- Intellectual Skills:

By the end of the course the candidate will be able to:

- b1- Diagnose psychiatric related dermatologic and andrological malfunctions
- b2 - Distinguish and manage psychological related dermatological and andrological diseases.

b3- Relate history, examination and investigations in context with psychological condition of patients.

b4 - Plan and carry out management strategy for different psychological related conditions in association with psychologists.

c- Professional Skills:

By the end of the course the candidate will be able to:

c1- Take full medical, Psychological history and assessment of patients.

d- General and Transferable Skills:

By the end of the course the candidate will be able to

d1- Demonstrate effective communication with patients, relatives and psychiatrists.

d2- Cope with ethical and legal issues which occur during the management of patients with psychiatric problems

3- Course Content:

| Topics | No. of hours | | | Signature |
|---|--------------|-----|-----|-----------|
| | L | C/P | SDL | |
| Psychology of sex | 5 hrs | | | |
| Disorders of sexual cycle | | | | |
| Paraphilias | | | | |
| Gender identity disorders | | | | |
| Introduction and classification in psychiatry | 2.5 hrs | | | |
| Introduction to management strategies in psychiatry | | | | |
| Interface between psychiatry and dermatology, Andrology | 2.5 hrs | | | |
| Common psychiatric conditions and their management | 5 hrs | | | |

L: Lecture, C/P: Clinical or Practical and SDL: Self directed learning

4 - Student Assessment Methods:

4.1Written exam to assess knowledge

4.2Oral exam to assess skills

4.3 Clinical exam : Dermatology Department

Weighing of Assessment:

| | |
|------------------|----|
| 4.1 Written exam | 20 |
| 4.2Oral exam | 10 |
| 4.3Clinical exam | 20 |
| Total | 50 |

5 - List of References:

5.1- Course Notes: lecture notes

7- DERMATOLOGY COURSE SPECIFICATIONS:

University: Ain Shams

Faculty of Medicine

Course Specifications:

Program in which the course is given: Master of Science in Dermatology, Venereology and Andrology.

Department offering the program: Department of Dermatology, Venereology and Andrology.

Department offering the course: Department of Dermatology, Venereology and Andrology.

Academic year: Master – 2nd, 3rd and 4th semester

Date of specification approval: 2016

A- Basic Information

Title: Dermatology

Code: DVA6008

Credit Hours: 9 hrs

Lecture: 7.5hr/wk

Total: 112.5

Practical: 1.5hr/wk

Total: 45 hrs

Coordinator

B - Professional Information:

1- Course Aims:

- a- Perform a full assessment of patients presenting with dermatological complaints in out-patient, in-patient, or community setting.
- b- Apply the knowledge and skills to plan the management and follow up work for patients with severe life threatening conditions.
- c- Be able to perform simple out-patient procedures to reach or confirm diagnosis.

2- Intended Learning Outcomes (ILOs) from the Course:

a- Knowledge and Understanding:

By the end of the course the candidate will be able to:

- a.1- Recognize the normal structure, function and development of the human skin, the interactions between skin, the body and the mind, and factors that may disturb these.
- a.2- Understand knowledge of etiology, pathology, symptoms and signs, natural history and prognosis of dermatological diseases in all ages.

- a.3- Distinguish diagnostic procedures, their uses and limitations and perform simple out-patient procedure necessary for diagnosis.
- a.4- Understand management of different dermatological and medical conditions, including pharmacological, physical, nutritional and psychological therapies.
- a.5- Identify principles of health education, disease prevention, amelioration of suffering and disability and rehabilitation.
- a.6- Identify the principles of ethics related to health care and legal responsibilities of the medical profession.

b- Intellectual Skills:

By the end of the course the candidate will be able to:

- b1- Diagnose dermatological problems (Syndromes) & its differential diagnosis.
- b2- Relate history, examination and investigations in context with patient condition.
- b3- Plan and carry out management strategy for different dermatological problems
- b4- Predict patient outcome and select the most appropriate care according to patient needs.
- b5- Understand scientific methods at a level adequate to provide a rational basis for dermatological specialist practice, prevention, diagnosis, and the management of a wide range of medical diseases and to assimilate the advances in knowledge which will occur over their working life.

c- Professional Skills:

By the end of the course the candidate will be able to:

- c1- Apply different assessment scales used to assess severe dermatological conditions.
- c2- Manage dermatological patients with multiple co-morbidities and manage emergency conditions that may arise during treatment of severely ill admitted patients.
- c3- Perform dermatological out-patient and cosmetic procedures efficiently.
- c.4- Initiate, conduct & complete a research project.

d- General and Transferable Skills:

By the end of the course the candidate will be able to:

- d1- Demonstrate effective communication with patients, relatives and demonstrate awareness of the impact of chronic dermatological diseases on the family and society.
- d2- Cope with ethical and legal issues which occur during the management of patients with general medical problems.

d3- Demonstrate the ability to work in clinical teams with other health care professionals and to have the necessary leadership skills.

d.4- An appreciation of the responsibility to maintain standards of medical practice at the highest possible level throughout a professional career and to recognize when a clinical problem exceeds their capacity to deal with efficiently and appreciate the need to refer patients to other specialty.

3- Course Content:

| Topics | No. of hours | | | |
|---|--------------|-------|-----|-----------|
| | L | C/P | SDL | signature |
| 1. Basics of dermatology | 3 hrs | 1 hr | | |
| 2. Genodermatoses | 4 hrs | 1 hr | | |
| 3. Vesiculobullous dermatoses | 4 hrs | 2 hrs | | |
| 4. Papulosquamous disorders | 5 hrs | 2 hrs | | |
| 5. Allergic skin disorders | 4 hrs | 1 hr | | |
| 6. Connective tissue disorders | 5 hrs | 1 hr | | |
| 7. Non-infectious granulomas | 2.5 hrs | 1 hr | | |
| 8. Bacterial skin infections | 4 hrs | 1 hr | | |
| 9. Viral skin infections | 2 hrs | 2hrs | | |
| 10. Fungal skin infection | 3.5 hrs | 1 hr | | |
| 11. Protozoal skin infections | 3 hr | 2 hrs | | |
| 12. parasitic skin infections | | | | |
| 13. Cutaneous vascular disorders | 3 hrs | 1 hr | | |
| 14. Diseases of subcutaneous fat | 3 hrs | 1 hr | | |
| 15. Drug reactions | 2 hrs | 1 hr | | |
| 16. Photodermatoses | 4 hrs | | | |
| 17. Reactions to physical agents | 2 hr | 1 hr | | |
| 18. Primary perforating dermatoses | 2 hrs | 1 hr | | |
| 19. Degenerative skin disorders | 2 hrs | 1 hr | | |
| 20. Histiocytic proliferative disorders | 2 hrs | 1 hr | | |

| | | | | |
|---|-------|------|-------|--|
| 21. Metabolic & nutritional disorders | 4 hrs | 1 hr | | |
| 22. Pigmentary disorders | 3 hrs | 1 hr | | |
| 23. Erythemas and telangiectaias | | | **** | |
| 24. Hair disorders | 3 hrs | 2 hr | | |
| 25. Nail disorders | 3 hr | 2 hr | | |
| 26. Sweat gland disorders | **** | **** | ***** | |
| 27. Sebaceous gland disorders | **** | **** | **** | |
| 28. Mucous membrane diseases | 2 hr | 2 hr | | |
| 29. Tumors of the skin: Of the surface epidermis & appendages | 3hrs | 1hr | | |
| | | | **** | |
| 30. of melanocytes | 5 | 2 | | |
| 31. of blood vessels | 3 | 1 | | |
| 32. of neural tissues | ***** | **** | **** | |
| 33. of adipose tissue | ***** | **** | **** | |
| 34. lymphomas, leukemias & lymphocytic infiltrates | 6 | 1 | | |
| 35. Metastatic tumors | 2 | 1 | | |
| 36. Skin & systemic diseases | 3 | 1 | | |
| 37. Geriatric dermatology | 1.5 | 1 | | |
| 38. Neonatal & pediatric dermatology | 2 | 1 | | |
| 39. Pregnancy-related dermatoses | 2 | 1 | | |
| 40. Occupational dermatology | | | **** | |
| 41. Psychosomatic disorders | | | **** | |
| 42. Pruritus & prurigo | 2 | | | |
| 43. Cosmetic dermatology & dermatologic surgery | 8 | 5 | | |
| L: Lecture, C/P: Clinical or Practical and SDL: Self directed learning. | | | | |

4 - Student Assessment Methods:

- 4.1 Written exam to assess knowledge.
- 4.2 Clinical exam to assess practical skills.
- 4.3 Oral exam.

Weighing of Assessment:

4.1 Written exam: 270

4.2 Oral exam: 40

4.3 Clinical exam: 140

End of semester exam 150 degrees

5 - List of References

5.1- Course Notes lecture notes

5.2- Essential Books (Text Books):

- Rook, Wilkinson and Ebling – Textbook of dermatology.
- Fitzpatrick et al, - Dermatology in general medicine.
- Lever’s Histopathology of the skin.

5.3- Recommended Books

- Clinical dermatology – Rona M Mackie
- Roxburghs common skin diseases – Ronald Marks.

5.4- Periodicals,

- Archives of Dermatology
- British Journal of Dermatology
- Journal of the American Academy of the Dermatology
- International Journal of Dermatology.

8- VENEREOLGY, ANDROLOGY & INFERTILITY COURSE SPECIFICATIONS:

University: Ain Shams **Faculty of Medicine**

I) VENEREOLGY, ANDROLOGY & INFERTILITY COURSE SPECIFICATIONS (VENEREOLGY):

Course Specifications:

Program in which the course is given: Master of Science in Dermatology, Venereology and Andrology.

Major or minor element of programs: Major

Department offering the program: Department of Dermatology, Venereology and Andrology.

Department offering the course: Department of Dermatology, Venereology and Andrology.

Academic year: Master 4th semester

Date of specification approval: July 2009

A- Basic Information

Title: Venereology, Andrology & Infertility

Code: DVA6009a

Credit Hours: 2.24 hrs **Lecture:** 2 hr/wk

Total: 29.5 hrs

Practical: 0.24 hr/wk

Total: 9 hrs

Coordinator :

.....

B - Professional Information:

1- Course Aims:

- a- Perform a full assessment of patients presenting with sexually transmitted diseases and their spouses.
- b- Apply the knowledge and skills to plan the management and follow up work for patients with sexually transmitted diseases.
- c- Be able to perform simple out-patient procedures to reach or confirm diagnosis.

2- Intended Learning Outcomes (ILOs) from the Course:

a- Knowledge and Understanding:

By the end of the course the candidate will be able to:

- a.1- Recognize the normal structure, function and development of the male and female reproductive systems.
- a.2- Understand the etiology, pathology, symptoms and signs, natural history and prognosis of venereal diseases.
- a.3- Distinguish diagnostic procedures, their uses and limitations and perform simple out-patient procedure necessary for diagnosis.
- a.4-Order relevant investigations and interpret results in a scientific manner.
- a.5-Identify principles of health education, disease prevention, amelioration of suffering and disability and rehabilitation.
- a.6-Identify the principles of ethics related to health care and legal responsibilities of the medical profession.

b- Intellectual Skills:

By the end of the course the candidate will be able to:

- b1- Diagnose venereal diseases & their differential diagnosis.
- b2- Relate history, examination and investigations in context with patient condition.
- b3- Plan and carry out management strategy for different sexually transmitted diseases and include patient's partner in the plan.

c- Professional Skills:

By the end of the course the candidate will be able to:

- c1- Apply different assessment methods used to assess sexually transmitted diseases and order proper investigation plans.
- c2- Manage patients with sexually transmitted diseases and multiple co-morbidities or complications.
- c3- Initiate, conduct & complete a research project.

d- General and Transferable Skills:

By the end of the course the candidate will be able to:

- d1- Demonstrate effective communication with patients, relatives and demonstrate awareness of the impact of venereal diseases on the family and society.
- d2- Cope with ethical and legal issues which occur during the management of patients with general medical problems.
- d3- Demonstrate the ability to work in clinical teams with other health care professionals and to have the necessary leadership skills.
- d.4- Demonstrate an appreciation of the responsibility to maintain standards of medical practice at the highest possible level throughout a professional career.

3- Course Content:

| Topics | No. of hours | | | |
|---|--------------|------|------|-----------|
| | L | C/P | SDL | signature |
| Gonorrhoea | 3hrs | 1 hr | | |
| Non-gonococcal urethritis | 2hrs | | | |
| Chancroid | 1hr | 1 hr | | |
| Granuloma inguinale | 1 hr | | | |
| Lymphogranuloma venereum | 1 hr | | | |
| Human papilloma virus | 2 hr | 1 hr | | |
| Herpes simplex | 2 hr | 1 hr | | |
| Syphilis | 4.5 hrs | 2hrs | | |
| HIV infections | 5 hrs | 1 hr | | |
| <u>Miscellaneous</u> | | | | |
| Prostatitis & other prostatic disorders | 3 hr | 1 hr | | |
| Epididymitis | | | | |
| Proctitis | | | **** | |
| STDs in pregnancy | | | | |
| <u>Miscellaneous</u> | | | | |
| Testicular tumors | 5hrs | 1hr | | |
| Gynecomastia | | | | |
| Genital traumas | | | | |
| Testicular swellings | | | | |
| Testicular torsion | | | | |
| Testicular pain | | | | |
| Fournier gangrene | | | | |
| Penile augmentation | | | | **** |
| Circumcision | | **** | | |
| Benign dermatoses of the genitalia | | **** | | |

L: Lecture, C/P: Clinical or Practical and SDL: Self directed learning.

4 - Student Assessment Methods:

- 4.1 Written exam to assess knowledge.
- 4.2 Clinical exam to assess practical skills.

Weighing of Assessment:

- 4.1 Written exam: 220
- 4.2 Oral exam: 40
- 4.3 Clinical exam: 140

End of semester exam 50 degrees

5 - List of References

5.1- Course Notes lecture notes

5.2- Essential Books (Text Books):

- Rook, Wilkinson and Ebling – Textbook of dermatology.
- Fitzpatrick et al, - Dermatology in general medicine.
- Sexually transmitted diseases

II) VENEREOLOGY, ANDROLOGY & INFERTILITY COURSE **SPECIFICATIONS (ANDROLOGY):**

Course Specifications:

Program in which the course is given: Master of Science in Dermatology, Venereology and Andrology.

Major or minor element of programs: Major

Department offering the program: Department of Dermatology, Venereology and Andrology.

Department offering the course: Department of Dermatology, Venereology and Andrology.

Academic year: Master : 3rd semester

Date of specification approval: 2016

A- Basic Information

Title: Venereology, Andrology & Infertility

Code: DVA6009b

Credit Hours: 2.9 hrs

Lecture: 2.7 hr/wk

Total: 40 hrs

Practical: 0.2 hr/2 wks

Total: 6 hrs

Coordinator

.....

B - Professional Information:

1- Course Aims:

- a- Perform a full assessment of patients presenting with andrology related complaints.
- b- Apply the knowledge and skills to plan the management and follow up for patients with andrological complaints.
- c- Be able to perform simple out-patient procedures to reach or confirm diagnosis.

2- Intended Learning Outcomes (ILOs) from the Course:

a- Knowledge and Understanding:

By the end of the course the candidate will be able to:

- a.1- Recognize the normal structure, function and development of the male reproductive system and anatomy and factors or diseases that may disturb its function.
- a.2- Understand knowledge of etiology, pathology, symptoms and signs and prognosis of andrological diseases.
- a.3- Distinguish diagnostic procedures, their uses and limitations and perform simple out-patient procedure necessary for diagnosis.
- a.4- Understand management of different andrological and medical conditions, including pharmacological, physical, nutritional and psychological therapies.

b- Intellectual Skills:

By the end of the course the candidate will be able to:

- b1- Diagnose andrological problems & their differential diagnosis.
- b2- Relate history, examination and investigations in context with patient condition.
- b3- Plan and carry out management strategy for different andrological problems
- b4- Predict patient outcome and select the most appropriate care according to patient needs.
- b5- Understand scientific methods at a level adequate to provide a rational basis for prevention, diagnosis, and the management of a wide range of medical diseases and to assimilate the advances in knowledge which will occur over their working life.

c- Professional Skills:

By the end of the course the candidate will be able to:

- c1- Apply different assessment scales used to assess severity of andrological conditions.

- c2- Manage patients with multiple co-morbidities and manage emergency conditions that may arise during investigations or treatment.
- c3- Perform out-patient procedures efficiently.
- c.4- Initiate, conduct & complete a research project.

d- General and Transferable Skills:

By the end of the course the candidate will be able to:

- d1- Demonstrate effective communication with patients and demonstrate awareness of the impact of chronic andrological diseases on the family and society.
- d2- Cope with ethical and legal issues which occur during the management of patients.
- d3- Demonstrate the ability to work in clinical teams with other professionals.

3- Course Content:

| Topics | No. of hours | | | | |
|---|--------------|---------|-------|-----------|-------|
| | L | C/P | SDL | signature | |
| Male external genitalia | 2 hr | 1 hr | | | |
| Sexual differentiation <ul style="list-style-type: none"> • Physiology • Disorders | 10 hrs | | | | |
| Puberty <ul style="list-style-type: none"> • Physiology • Disorders | 5 hrs | 1 hr | | | |
| Erectile functions Physiology, Hemodynamics ,Biochemistry | 5 hrs | 1 hr | | | |
| Causes of erectile dysfunction <ul style="list-style-type: none"> • Vascular • Arteriogenic • Venogenic • Cavernous • Neurogenic • Hormonal • Mechanical • Drug-induced • Iatrogenic • Psychogenic • Miscellaneous • Therapeutics | 11 hrs | 1.5 hrs | | | |
| | | | ***** | **** | ***** |
| | | | ***** | **** | ***** |
| | ***** | **** | ***** | | |
| Ejaculation <ul style="list-style-type: none"> • Anatomy • Physiology • Biochemistry • Ejaculatory dysfunctions • Premature ejaculation • Retrograde ejaculation • Delayed ejaculation • Anejaculation | 3 hrs | | | | |
| Desire & orgasmic disorders | 1.5 hrs | | | | |
| Priapism | 1.5 hr | 1.5 h | | | |
| Sexuel paraphilias | 1 hr | | | | |

4 - Student Assessment Methods:

- 4.1 Written exam to assess knowledge.
- 4.2 Clinical exam to assess practical skills.
- 4.3 Oral exam.

Weighing of Assessment:

- 4.1 Written exam: 220
- 4.2 Oral exam: 40
- 4.3 Clinical exam: 140

End of semester exam 50 degrees

5 - List of References

5.1- Course Notes lecture notes

5.2- Essential Books (Text Books):

- Andrology, Male reproductive Health and Dysfunction: S.Nieschlag

III) VENERELOGY, ANDROLOGY & INFERTILITY COURSE **SPECIFICATIONS (INFERTILITY)**

Course Specifications:

Program in which the course is given: Master of Science in Dermatology, Venereology and Andrology.

Major or minor element of programs: Major

Department offering the program: Department of Dermatology, Venereology and Andrology.

Department offering the course: Department of Dermatology, Venereology and Andrology.

Academic year: Master 2nd semester

Date of specification approval: 2016

A- Basic Information

Title: Venereology, Andrology & Infertility

Credit Hours: 2.86 hrs **Lecture:** 2.36 hrs/wk

Practical: 0.5 hr/wk

Code: DVA6009c

Total: 35.5 hrs

Total: 15 hrs

Coordinator

.....

B - Professional Information:

1- Course Aims:

- a- Perform a full assessment of patients presenting with infertility.
- b- Apply the knowledge and skills to plan the management and follow up work for patients.
- c- Be able to perform simple out-patient procedures to reach or confirm diagnosis.

2- Intended Learning Outcomes (ILOs) from the Course:

a- Knowledge and Understanding:

By the end of the course the candidate will be able to:

- a.1- Recognize the normal structure, function and development of the male and female reproductive tract.
- a.2- Understand etiology, pathology, symptoms and signs, natural history and prognosis of dermatological diseases in all ages.
- a.3- Distinguish diagnostic procedures, their uses and limitations and perform simple out-patient procedure necessary for diagnosis.
- a.4- Understand possible management of patients and their partners, including patients with medical conditions [pharmacological, physical, and psychological].
- a.5- Identify the principles of ethics related to health care and legal responsibilities of the medical profession.

b- Intellectual Skills:

By the end of the course the candidate will be able to:

- b1- Diagnose fertility problems and related syndromes & its differential diagnosis.
- b2- Relate history, examination and investigations in context with patient condition.
- b3- Plan and carry out management strategy for different fertility problems
- b4- Predict patient outcome and select the most appropriate care according to patient needs.
- b5- Understand scientific methods at a level adequate to provide a rational basis for management of couples with infertility and to assimilate the advances in knowledge which will occur over their working life.

c- Professional Skills:

By the end of the course the candidate will be able to:

- c1- Apply different assessment scales used to assess male fertility.
- c2- Manage infertile patients with multiple co-morbidities.
- c3- Perform out-patient procedures efficiently.
- c.4- Initiate, conduct & complete a research project.

d- General and Transferable Skills:

By the end of the course the candidate will be able to:

d1- Demonstrate effective communication with patients and their partners.

d2- Cope with ethical and legal issues which occur during the management of patients.

d3- Demonstrate the ability to work in clinical teams with obstetricians to solve medical problems of couples and to have the leadership skills.

3- Course Content:

| Topics | No. of hours | | | |
|--|----------------|-------|-----|-----------|
| | L | C/P | SDL | signature |
| Introduction to male & female genital system | 2 hrs | 1 hr | | |
| Case sheet | 2 hrs | 3 hr | | |
| Spermatogenesis & factors affecting spermatogenesis | 3 hrs | 1 hrs | | |
| Sperm transport in the female genital tract | 1.5 hrs | | | |
| Fertilization | 2 hr | 2 hr | | |
| Male infertility: Pretesticular and testicular causes Post testicular causes | 7 hrs 6 hrs | | | |
| Asthenozoospermia | | 1 hr | | |
| Teratozoospermia | 4 hour | 1hrs | | |
| Necrozoospermia | | 1 hr | | |
| <u>Diagnostics:</u> <ul style="list-style-type: none">• Seminology• Sperm function tests• Testicular biopsy• Imaging techniques | 8 hrs | 5 hrs | | |
| Therapy & assisted reproduction techniques | ***** | | | |

L: Lecture, C/P: Clinical or Practical and SDL: Self directed learning.

4 - Student Assessment Methods:

4.1 Written exam to assess knowledge.

4.2 Clinical exam to assess practical skills.

4.3 Oral exam.

Weighing of Assessment:

4.1 Written exam: 220

4.2 Oral exam: 40

4.3 Clinical exam: 140

End of semester exam 50 degrees

5 - List of References

5.1- Course Notes lecture notes

5.2- Essential Books (Text Books):

- Andrology, Male reproductive Health and Dysfunction: S.Nieschlag

9- MEDICAL ETHICS COURSE SPECIFICATIONS:

Course specifications

Master Science of Dermatology

Department offering the course: forensic medicine and clinical toxicology

Date of specification approval: 2016

A- Basic Information

Title: اخلاقيات و آداب مزاولة المهنة

Code: Master E6029

Credit Hours: 1Lecture:0.7credit hoursTotal:10.5 hours

Tutorial:0.3credit hoursTotal:4.5 hours

Coordinator:

Prof. Amany Abdelrahman

Ass.prof. Sonia Mohamed Azab

Ass. Prof. Nesreen Abdelrahman

B - Professional Information

1- Course Aims:

The aim of the course is to assure that the students obtain a thorough comprehension of the basic principles of ethics during medical practice in order to assume his tasks in a context of safe, respectful, satisfactory and successful relation with the patient and his relatives

2- INTENDED LEARNING OUTCOMES (ILOs) FROM THE COURSE:

A- KNOWLEDGE AND UNDERSTANDING (K):

By the end of the course the candidate will be able to:

- a1. Describe the aspects playing the fundamental parts of medical ethics.
- a2. Portray the circumstances where the ethics might be violated
- a3. Describe the different problems during medical practice that create ethical concern
- a4. Recognize the ethics rules governing medical practice and issued by the Egyptian Medical Syndicate.
- a5. Identify the ethical concern in his medical specialty
- a6. Recognize the ethical principles of medical practice and the challenges to apply them
- a7. To list different types and limitations of consent in his specialty .
- a8. Recognize the medico-legal importance of informed consent and its limitations.
- a9. Describe the confidentiality, fairness and the respect of privacy and dignity of patients and their limitations.
- a10. Know how to make full documentations for I patients presented in emergency room, in-patient unit, intensive care unit and out-patient units.
- a11. Describe procedure and limitations to restrain the patients at ICU.
- a12. Know the patient rights referring to human rights and lawful legalizations.

B -INTELLECTUAL SKILLS (IS):

By the end of the course the candidate will be able to:

- 1b *Interpret the most important challenge situations*
- 2b *Correlate the Egyptian ethical regulations to the basic principles of medical ethics*
- 3b *Integrate the medical ethics principles with different clinical situations and specialties and recognize ethical principles in medical interventions and procedures e.g. Mechanical Ventilation*
- 4b *Select the ethical rules suiting our community according to the governing legislations*
- 5b *Incorporate ethical considerations during different situations*
- 6b *Conceive the concept of ever-changing profile of medical ethics in a society and correlate it to advances in biotechnology and regulations*
- 7b *Estimate the medical procedures and treatment modalities breaking the concept of medical ethics and recognize causes of ethical concern in Emergency and critical care*
- 8b *Practice of Emergency and Critical care Medicine in cost conscious manner*

C -PROFESSIONAL SKILLS:

By the end of the course the candidate will be able to:

- 1c. Comply with standards of practice, codes of ethics, and state statutes.
- 2c . Improve clinical decision making by minimizing negative influencers.
- 3c . Adhere to professional ethics with resultant improvements in physician-patient interaction, which can improve clinical outcomes.
- 4c . Reduce their potential of transgressions through the development of systems that can be implemented into clinical practice.
- 5c . Become aware of the early warning signs indicative of ethical dilemmas and boundary problems.
- 6c .Create and implement a tiered Protection Plan to maintain appropriate boundaries.

D-General and transferable skills

By the end of the course the candidate will:

- 1d. Gain an understanding of moral authority and ethical decision making.
- 2d .Understand the relationship between ethical content and ethical process.
- 3d .Review codes and laws relevant to their specific offense
- 4d .Communicate the harm done from ethical / legal violations.
- 5d .Identify and define violation potentials for ethical issues utilizing the Ethics –Formula
- 6d .Create an Ethics Protection Plan to maintain and safeguard professional ethics.
Learn to utilize peer group discussions for ethical dilemma resolution

3- COURSE CONTENT :

L: Lecture, T: Tutorial, and SDL: Self directed learning.

| Topics | L | T | SDL |
|---|-------------|------------|------------|
| Medico-legal aspects in practicing dermatology | 1 | 0.5 | 1 |
| Principles of medical ethics | 1 | 0.5 | 1 |
| Medico-legal duties and responsibilities of a dermatologist | 2 | 0.5 | 1 |
| Legal considerations in dermatological practice | 1 | 0.5 | 1 |
| Ethical and moral aspects regarding some issues concerning with some dermatological issues | 1 | 0.5 | 1 |
| Patient's rights and responsibilities AND Malpractice claims | 1 | 0.5 | 1 |
| Medico legal responsibilities | 1 | 0.5 | 1 |
| Ethical issues of forensic approaches to claims | 1.5 | 0.5 | 1 |
| Case study | 1 | 0.5 | 1 |
| Total | 10.5 | 4.5 | 9 |

4- STUDENT ASSESSMENT METHODS

- 4.1 Short essays to assess knowledge
- 4.2 MCQs to assess knowledge and intellectual skills

5 - List of References

- 5.1- Course Notes (paper and / or electronic)
- 5.2- Essential Books (Textbooks)
- 5.3- Recommended Books
- 5.4- Periodicals, Web Sites, etc

10- MEDICAL STATISTICS COURSE SPECIFICATIONS:

Medical statistics E6008 (Master)

Ain Shams University

Faculty of Medicine

Course specifications

Program on which the course is given:.....

Major or minor element of programs: Minor

Department offering the program:.....

Department offering the course: Community, Environmental and Occupational Medicine

Academic year: 4th semester MSc

Date of Specification approval: 2016

A- Basic Information

Title: Medical statistics course

Code: E6008 (Master)

Credit Hours: 1.0 (Lecture: 0.75 Credit Hours =12 hours, P: 0.25 Credit Hours = 8 hours)

Coordinator:

B - Professional Information

1) Course Aims:

To plan, conduct, analyze and interpret the results of a research in different medical fields. This course unit introduces the application of statistical ideas to medical research.

2) Intended Learning Outcomes (ILOs) from the Course:

A. Knowledge and understanding

By the end of the course the candidate will be able to:

A1. Define medical statistics and identify uses and importance of medical statistics in medical research

A2. Define:

- a. Types of variables.
- b. Descriptive statistics.
- c. Presentation and summarization of data.
- d. Measures of central tendency and scatter.
- e. Principles of probability and probability distributions.

- f. Concepts of inferential statistics: confidence interval and hypothesis testing.
 - g. Different tests of statistical significance.
 - h. Difference between parametric and nonparametric tests of significance.
 - i. Correlation and regression
 - j. Concept of statistical modeling using multivariable and multivariate statistical methods.
 - k. Importance and methods of sampling.
- A3. Recognize different statistical issues related to the design, conduct, analysis and interpretation of the results.

B. Intellectual skills.

By the end of the course the candidate will be able to:

- B1. Present statistical data appropriately using tabular and graphical methods.
- B2. Use the appropriate inferential and hypothesis testing methods
- B3. Interpret correctly the results of statistical analyses.

C. Professional skills.

By the end of the course the candidate will be able to:

- C1. Select and apply appropriate statistical methods for analyzing data typically encountered in medical applications.
- C2. Use selected software packages for statistical analysis and data management.

D. General and transferable skills

By the end of the course the candidate will be able to:

- D1. Work effectively within a group from different backgrounds.
- D2. Respect the role of staff and co-staff members regardless of degree or occupation.
- D3. Communicate effectively using different skills of data presentation whether written or oral.
- D4. Use of computer data bases and other computer skills.
- D5. Handle data appropriately and analyze them through: decision processes, objective criteria, problem definition.
- D6. Learn independently with open-mindedness and critical enquiry.

3) Course content:

| | Topics | | |
|-----|---|-----------|----------|
| | | L/T | P |
| 1. | Introduction to medical statistics and its uses | 1 | 40 m |
| 2. | Random variable and types of clinical variables - Description of variables | 1 | 40 m |
| 3. | Data Collection, Tabular and Graphical Presentation. | 1 | 40 m |
| 4. | Introduction to probability theory and rules | 1 | 40 m |
| 5. | Sample and population: sampling distribution of mean and proportion | 1 | 40 m |
| 6. | Measuring Disease and Quantifying Risk | 1 | 40 m |
| 7. | Probability Distribution of a continuous variable (Normal Distribution) | 1 | 40 m |
| 8. | Inferences about mean and proportion – Estimation | 1 | 40 m |
| 9. | Inferences about mean - Hypothesis Testing: Tests of statistical significance: Mean | 1 | 40 m |
| 10. | Inferences about Proportion - Hypothesis Testing: Tests of statistical significance: Proportion | 1 | 40 m |
| 11. | Describing the performance of Diagnostic/Screening test | 1 | 40 m |
| 12. | Correlation and Regression and Introduction to multivariable and multivariate analysis | 1 | 40 m |
| | Total | 12 hrs | 8 hrs |

L: Lecture, T: Tutorial, P: Practical, m: minutes.

Statistical Software will be used in the practical sessions.

4) Student Assessment Methods

- a. Continuous Formative Assessment: MCQ quiz
- b. Final written exam.

Weighing of assessment

Final Written Exam = 50 marks

5) List of References

5.1. *Course Notes (paper and / or electronic)*

Student Notes on Medical Statistics and Research Methods. Prof. Mohsen Abdel Hamid and Dr Moustafa El Houssinie. Department of Community, Environmental and Occupational Medicine. The book is present online in the following link goo.gl/zDZS5c Candidates are advised to download the notes from the website.

5.2. *Medical Statistics at a glance. Aviva Petra and Caroline Sabim. Wiley Press*

5.3. *Periodicals, Web Sites, etc*

-www.brettscaife.net/statistics/introstat/

-onlinestatbook.com/rvls/

-[www. Epidemiolog.net](http://www.Epidemiolog.net)

-<http://www.shef.ac.uk/scharr/spss/>

V- Module map

Module 1: Biochemistry, Physiology, Microbiology and immunology, Pathology, Internal Medicine, Psychiatry and Sexology, General Surgery.

Module 2: Dermatology and Male Fertility.

Module 3: Dermatology and Andrology.

Module 4: Dermatology and Venereology, Elective courses.

1st semester :

Title: Module 1

Codes: BiochemistryDVA6001, PhysiologyDVA6002, Microbiology and Immunology DVA6003, Pathology DVA6004, Internal Medicine and General Surgery DVA6005 & 6, Psychiatry and Sexology DVA6007

Credit hours: 6

Lectures: 90 hrs

Practical: nil

Contents:

| Topic | Credit hours |
|---|--------------|
| Biochemistry DVA 6001 | 1 |
| Physiology DVA6002 | 1/2 |
| Microbiology and Immunology DVA6003 | 1/2 |
| Pathology DVA6004 | 1 |
| Internal Medicine and General surgery DVA6005 & 6 | 2 |
| Psychiatry and Sexology DVA6007 | 1 |

2nd Semester

Title: Module 2

Codes: Dermatology DVA6008, Venerology, Andrology & **Infertility** DVA6009c

Credit hours: 6.03

Lectures: 75.5hrs

Clinical: 30hrs

| Topic | Credit hours |
|---------------------------|--------------|
| Dermatology DVA6008: 1-12 | 3.17 |
| Infertility,... DVA6009c | 2.86 |

3rd semester:

Title: Module 3

Codes: DermatologyDVA6008, Venerology, **Andrology** & Infertility DVA6009b

Credit hours: 5.73 **Lectures:** 75 hrs

Practical: 22 hrs

| Topic | Credit hours |
|--------------------------|--------------|
| DermatologyDVA6008:13-28 | 2.83 |
| AndrologyDVA6009b | 2.9 |

4th semester

Title: Module 4

Codes: DermatologyDVA6008, **Venerology**, Andrology & Infertility DVA6009a and one elective course

Credit hours: 6.24 **Lectures:** 67 hrs

Practical: 23 hrs

| Topic | Credit hours |
|----------------------------|--------------|
| DermatologyDVA6008: 29- 44 | 3 |
| VenereologyDVA6009a | 2.24 |
| Elective course | 1 |

VI- General Information:

1 - Monitoring of Training and Submission of Training Reports:

You must keep proper and updated records in your logbook to reflect the activities encountered in your training. Your logbook must be properly endorsed by an authorized signatory at the end of each semester.

You will be continuously assessed by your supervisors, in consultation with head of department. An assessment will be submitted within 2 weeks of completion of each semester.

2 - Miscellaneous Information:

Injury and/or Blood or Body Fluid Exposure:

During regular working hours, you should immediately report an exposure incident to ----- . If exposure occurs after regular working hours or during a weekend or holiday; please call the ----- . For injury, please report to the Emergency Department.

Please also be sure to inform the supervisors of an exposure incident and/or injury.

3 - Action Completion of Clinical Training:

Once all training sessions are completed the log book should be signed by the senior supervisor and the head of the department and then should be submitted to post graduate secretariat.

A hard copy of your logbook summary should be delivered to the department secretariat at the end of each semester.

4- Reference:

The Training Guide is available at the post graduate Secretariat and could be downloaded from the following website ////////////////////

VII- Your Log Book:

A- Introduction

The aim of this book is to give you a guide to the expectations for each item. It will be a guide for both you and your teachers to what you should be seeing and doing.

It will give you a list of the important topics that you should think about and should be covered in:

- 1. Clinical or practical sessions
- 2. Self-directed learning (SDL)

For each item there is also a list of

- 1. Clinical conditions or Practical sessions to be seen or attended
- 2. Practical procedures to be seen and done

Remember

This document is *only a guide*. It is not an exhaustive list. It is not just a checklist to score points. It is a guide to encourage you to read and learn more. *This book is for your benefit*. It will form a record of your clinical training and experience.

B - Supervisors

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C-Tables for Training Records:

Candidates are required to fulfill 75% of the listed activities in order to be eligible for the exam entry. The minimum number required for each activity = 75%. You are free to attend more and record your extra attendance.

Weekly Department Plan

| Day /time | Satur. | Sun. | Mon. | Tues. | Wednes. | Thurs. |
|--------------------|--------|------|------|-------|---------|--------|
| Journal Club | | * | | | | |
| Conference | | | | | | |
| Seminar | | | | * | | |
| Clinics attendance | | * | | * | | |
| Grand round | * | * | | * | | |

Journal Club

(NB. Minimum number required for attendance is **30** attendances over 2 years)

| No | Date | Place | Topics | Supervisor signature |
|----|------|-------|--------|----------------------|
| 1 | | | | |
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Clinical practice

Practical skills (Agreement Scale)

| Item (+ minimum number required) | No. | <u>Observed</u> | Date | <u>Assisted</u> | Date | <u>Done independently</u> (A, B, C) According to each department | Date | Supervisor signature |
|----------------------------------|-----|-----------------|------|-----------------|------|--|------|----------------------|
| Dermatology: out-patient clinic | 1 | | | | | | | |
| | 2 | | | | | | | |
| | 3 | | | | | | | |
| | 4 | | | | | | | |
| | 5 | | | | | | | |
| | 6 | | | | | | | |
| Andrology: out-patient clinic | 1 | | | 1 | | 1 | | |
| | 2 | | | 2 | | 2 | | |
| | 3 | | | 3 | | 3 | | |
| | 4 | | | | | | | |
| | 5 | | | | | | | |
| | 6 | | | | | | | |
| Intra-corporal injection | 1 | | | | | | | |
| | 2 | | | | | | | |
| | 3 | | | | | | | |
| | 4 | | | | | | | |
| | 5 | | | | | | | |
| Priapism management | 1 | | | | | | | |
| | 2 | | | | | | | |

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|---|----|--|--|---|--|---|--|--|
| Cosmetology: out-patient clinic | 1 | | | 1 | | 1 | | |
| | 2 | | | 2 | | 2 | | |
| | 3 | | | 3 | | 3 | | |
| | 4 | | | 4 | | 4 | | |
| | 5 | | | 5 | | 5 | | |
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| | 7 | | | | | | | |
| | 8 | | | | | | | |
| | 9 | | | | | | | |
| | 10 | | | | | | | |
| Electro-fulguration of warts | 1 | | | | | | | |
| | 2 | | | | | | | |
| | 3 | | | | | | | |
| | 4 | | | | | | | |
| | 5 | | | | | | | |
| Chemical Peel | 1 | | | | | | | |
| | 2 | | | | | | | |
| | 3 | | | | | | | |
| | 4 | | | | | | | |
| | 5 | | | | | | | |
| | 6 | | | | | | | |
| Cryo-cautery IV) Observation: 3 V) Perform: 4 | 1 | | | | | | | |
| | 2 | | | | | | | |
| | 3 | | | | | | | |
| | 4 | | | | | | | |
| Laser | 1 | | | | | | | |
| | 2 | | | | | | | |
| | 3 | | | | | | | |
| UV clinic | 1 | | | 1 | | 1 | | |
| | 2 | | | 2 | | 2 | | |
| | 3 | | | 3 | | 3 | | |
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| | 5 | | | | | 5 | | |

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|---------------------------------------|---|--|--|---|--|---|--|--|
| Pathology | 1 | | | 1 | | 1 | | |
| | 2 | | | 2 | | 2 | | |
| | 3 | | | 3 | | 3 | | |
| | 4 | | | 4 | | 4 | | |
| | 5 | | | 5 | | 5 | | |
| Mycology | 1 | | | | | | | |
| | 2 | | | | | | | |
| | 3 | | | | | | | |
| | 4 | | | | | | | |
| | 5 | | | | | | | |
| skin Biopsy | 1 | | | | | | | |
| | 2 | | | | | | | |
| | 3 | | | | | | | |
| | 4 | | | | | | | |
| Operative: varicocelectomy | 1 | | | 1 | | 1 | | |
| | 2 | | | 2 | | 2 | | |
| | 3 | | | 3 | | 3 | | |
| | 4 | | | 4 | | 4 | | |
| | 5 | | | 5 | | 5 | | |
| Testicular biopsy | 1 | | | 1 | | 1 | | |
| | 2 | | | 2 | | 2 | | |
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| | 4 | | | | | | | |

a-

Excellent

b- Satisfactory

c- Poor

Seminars Attendance

(NB. Minimum number required is 10 and 5 if performance)

(A= Attendance P= Performance)

| No | Date | Place | A P | Topics | Supervisor signature |
|----|------|-------|--------|--------|----------------------|
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Clinics Attendance

(NB. Minimum number required is 25 clinics.)

| No | Date | Place | Name of the Clinic | Supervisor signature |
|----|------|-------|--------------------|----------------------|
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Grand Rounds

(NB. Minimum number required is 20 attendances)

| No | Date | Place | Trainer's signature |
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Thesis Attendance

(NB. Minimum number required is 10)

| No | Date | Place | Name of the thesis | Supervisor signature |
|----|------|-------|--------------------|----------------------|
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D- Log Book Preview:

The candidate logbook will be reviewed and patients seen/ skills performed summarized by diagnosis groups during the semester evaluation and at the end of the course in the table below.

Summary

| Semester | 1st | 2nd | 3rd | 4th | Total |
|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------|
| Activity | No | No | No | No | |
| Conferences' attendance | | | | | |
| Journal club | | | | | |
| Seminars attendance | | | | | |
| Clinics attendance | | | | | |
| Grand round | | | | | |
| Bedside education | | | | | |
| Thesis attendance | | | | | |
| Practical skills | | | | | |
| | | | | | |
| Supervisor signature | | | | | |

VIII - Head of Department Approval for The Exam Entry

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IX – Thesis Follow up

| | | | |
|--------------------------|------------------|--|--|
| | | التقرير النصف السنوى لعام / عن الطالب / المقيد لدرجة ماجستير) بقسم / تقرير السادة الاساتذة المشرفين | |
| التاريخ/ | | | |
| <input type="checkbox"/> | قطع شوطا محدودا | <input type="checkbox"/> | جمع المادة العلمية و كتابة المقدمة |
| <input type="checkbox"/> | إنتهى من الجمع | <input type="checkbox"/> | أوشك على الإنتهاء |
| <input type="checkbox"/> | قطع شوطا محدودا | <input type="checkbox"/> | بدأ |
| <input type="checkbox"/> | إنتهى من التحليل | <input type="checkbox"/> | أوشك على الإنتهاء |
| <input type="checkbox"/> | قطع شوطا محدودا | <input type="checkbox"/> | بدأ |
| <input type="checkbox"/> | إنتهى من التحرير | <input type="checkbox"/> | أوشك على الإنتهاء |
| <input type="checkbox"/> | قطع شوطا محدودا | <input type="checkbox"/> | بدأ |
| <input type="checkbox"/> | إنتهت تماما | <input type="checkbox"/> | أوشك على الإنتهاء |
| <input type="checkbox"/> | مد القيد | <input type="checkbox"/> | رأى السادة المشرفين إستمرار قيد الطالب |
| <input type="checkbox"/> | | <input type="checkbox"/> | شطب قيد الطالب |
| / | تاريخ التشكيل | نعم | تم تشكيل لجنة المناقشة |
| / | | لا | |
| | | مد / شطب القيد | |
| وكيل الكلية | | توقيع السادة المشرفين | |

X – Evaluation Forms

Evaluation Form (at the end of each semester)

To be completed at -----

Candidate

Supervisor

Location

Aim of training

Agreed educational objectives and timescale in which objectives should be achieved.

Comments by Candidate

Comments by Supervisor

Date of next meeting

Signature of candidate

Signature of Supervisor

Date

Degree Program Evaluation Form by the Candidate
To be completed at the end of your degree.

Please consider each pair of statements and decide which most clearly reflects your view and **tick one box or answer the question.**

I. Individual Information

1. Are you a graduate of ASU?
 yes no to some degree
2. Year and semester when studies began:

II. General Questions

1. What are the advantages/disadvantages of the general study environment at the University ASU?
2. What were your expectations when you applied to the degree?
3. Do you feel that the degree program prepares you well for your future studies or employment according to the demands and expectations of those institutions?
 yes no to some degree
4. Has the time limit of the program (two or three academic years) caused you any difficulties _____ or _____ inconveniences?
 yes no to some degree

III. Structure of Degree Program

1. Did you receive enough guidance in planning your study schedule in the beginning _____ of _____ the _____ program?
 yes no to some degree
2. What were the main difficulties in the planning of your study schedule?
3. What is your general opinion on the structure of the degree program?

4. In your opinion, does the degree program offer a good balance of lectures, seminars, conferences, and book exams?
 yes no to some degree

a) General Studies

i) Do you feel that you have received enough guidance on academic writing?
 yes no to some degree

ii) Do you feel that you have acquired sufficient knowledge on research skills (eg. quantitative and qualitative research methods)?
 yes no to some degree

b) Courses

i) Have you had some special difficulties in completing some of the courses? Please specify.

ii) Has there been a sufficient variety of courses offered for your optional studies?
 yes no to some degree

iii) Have you received enough guidance for the preparation of your thesis?
 yes no to some degree

IV. Concluding Points

1. Did the degree program meet your expectations?
 yes no to some degree
2. What aspects of the degree program do you particularly like?
3. What aspects of the degree program do you particularly dislike?
4. What are your suggestions on how to improve the program?

Thank you!