

Peer Revision

Reviewers	University	Date of Revision
- Prof. Dawlat Salem	Cairo	10/12/2011
- Prof. Ahmad K. Mansur	Mansura	28/11/2011

PROGRAM SPECIFICATION FOR MASTER DEGREE IN DERMATOLOGY, VENEROLOGY AND ANDROLOGY

Sohag University

Faculty of Medicine

A. Basic Information:

1. Program Title: Master Degree in Dermatology, Venereology & Andrology
2. Program Type: Single
3. Faculty: Faculty of Medicine
4. Department: Dermatology, Venereology & Andrology
5. Coordinator: Dr. Amr Abd El-Hamed Ali
6. Assistant coordinators: Mohamed Al-Hosany .
7. External Evaluator: Prof. Nagwa Essa Abd El-Azem, MD, Asuit University
8. Last date of program specifications approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018.

B. Professional Information:

1. Program Aims:

The aim of this program is to provide the graduates with the basic medical knowledge and skills essential for the practice of dermatology, Venereology & Andrology and necessary to gain further training and practice in this field and medical research through providing:

1. Scientific knowledge essential for the practice of Dermatology and Andrology according to the international standards.
2. Skills necessary for proper diagnosis and management of patients including diagnostic, problem solving and decision making skills.
3. Sound ethical principles related to medical practice.
4. Active participation in community needs assessment and problems solving.
5. Maintenance learning abilities necessary for continuous medical education.
6. Maintenance research interest and abilities.

2. Attributes of the master degree graduates:

1. Mastering the basics of scientific research methodologies.
2. The application of the analytical method and used in the field of Dermatology, Venereology & Andrology.
3. The application of specialized knowledge and integrate it with the relevant knowledge in practice.
4. Be aware of the problems and has modern visions in the field of Dermatology, Venereology & Andrology.
5. Identify problems in the field of Dermatology, Venereology & Andrology and find solutions to them.
6. Mastery of professional skills in this specialty and use of the appropriate recent technologies supporting these skills.
7. Communicate effectively and the ability to lead work teams.
8. Decision-making in his professional contexts.



PROGRAM SPECIFICATION FOR MASTER DEGREE IN DERMATOLOGY, VENEROLOGY AND ANDROLOGY

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5. Identify problems in the field of Dermatology, Venereology & Andrology and find solutions to them.
6. Mastery of professional skills in this specialty and use of the appropriate recent technologies supporting these skills.
7. Communicate effectively and the ability to lead work teams.
8. Decision-making in his professional contexts.

9. To employ and preserve the available resources to achieve the highest benefit.
10. Awareness of his role in the community development and preservation of the environment at the lights of both international and regional variables.
11. Reflects the commitment to act with integrity and credibility, responsibility and commitment to rules of the profession.
12. Academic and professional self development and be capable of continuous learning.

3. Program Intended Learning Outcomes (ILOs):

a) Knowledge and Understanding:

By the end of the study of doctoral program in Dermatology, Venereology and Andrology the Graduate should be able to:

- a1. Mention the normal structure and function of the human intugmentary and reproductive systems on the macro and micro levels.
- a2. Mention the normal growth and development of the human intugmentary and reproductive systems.
- a3. Mention the abnormal structure, function, growth and development of human intugmentary and reproductive systems and natural history of various dermatological, venereal and andrological diseases.
- a4. Mention the natural history of Dermatological, Venereal and Andrological problems.
- a5. Enumerate the common diagnostic and laboratory techniques necessary to establish diagnosis of dermatological, venereal and andrological illnesses.
- a6. Mention the causation of disease and disease pathogenesis.
- a7. Enumerate methods of promoting health and preventing illness.
- a8. Describe the scientific methods of establishing disease causation.
- a9. Enumerate the various diagnostic and laboratory techniques necessary to establish diagnosis of various dermatological, venereal and andrological illnesses.
- a10. List the various therapeutic methods /alternatives used for various dermatological, venereal and andrological illnesses.
- a11. Mention scientific development in the field of Dermatology, Venereology and Andrology.
- a12. Mention the mutual influence between professional practice and its impacts on the environment.
- a13. Mention the ethical and legal aspects of professional practice in the field of Dermatology, Venereology and Andrology.
- a14. List the principles and fundamentals of quality of professional practice in the field of Dermatology, Venereology and Andrology.
- a15. Mention the basics and ethics of scientific research.
- a16. Explain the strategies and design of researches.

b) Intellectual Skills

By the end of the study of doctoral program in Dermatology, Venereology and Andrology the Graduate should be able to:

- b1. Integrate data acquired through history taking to reach a provisional diagnosis for various Dermatological, Venereal and Andrological problems.

- b2.** Select from different diagnostic alternatives the ones that help reaching a final diagnosis for Dermatological, Venereal and Andrological problems.
- b3.** Link between knowledge for Professional problems' solving.
- b4.** Conduct research study and/or write a scientific study on a research problem.
- b5.** Assess risk in professional practices in the field of Dermatology, Venereology and Andrology.
- b6.** Plan to improve performance in the field of Dermatology, Venereology and Andrology.
- b7.** Identify Dermatological, Venereal and Andrological problems and find solutions.
- b8.** Analyze researches and issues related to Dermatology, Venereology and Andrology.

c) Professional and Practical Skills

By the end of the study of master program in Dermatology, Venereology and Andrology the Graduate should be able to:

- c1.** Mention the basic and modern professional skills in the area of Dermatology, Venereology and Andrology.
- c2.** Perform physical examination of patients for dermatological and reproductive systems.
- c3.** Interpret the results of diagnostic procedures.
- c4.** Diagnose common illnesses.
- c5.** Recognize patients with life threatening dermatological conditions and initiate the proper management according to patient's needs.
- c6.** Write a treatment prescription.
- c7.** Write and evaluate clinical and semen reports.
- c8.** Perform basic diagnostic and therapeutic techniques and measures in this practice (skin biopsy, intracorporeal injections, intradermal injections using dermojet, electrocautery, etc.....)

d) General and Transferable Skills

By the end of the study of master program in Dermatology, Venereology and Andrology the Graduate should be able to:

- d1.** Communicate effectively by all types of effective communication.
- d2.** Use information technology to serve the development of professional practice
- d3.** Assess himself/herself and identify personal learning needs.
- d4.** Use different sources to obtain information and knowledge.
- d5.** Develop rules and indications for assessing the performance of others.
- d6.** Work in a team, and team's leadership in various professional contexts.
- d7.** Manage time efficiently.
- d8.** Learn himself continuously.

4. Academic Standards:

Sohag Faculty of Medicine adopted the general **National Academic Reference standards (NARS)** provided by the national authority for quality assurance and accreditation of education (naqaae) for postgraduate programs. This was approved by the Faculty Council decree No.6854, in its session No.177 Dated:18/5/2009. Based on these NARS; Academic Reference Standards (ARS)

were suggested for this program. These ARS were revised by external evaluator and approved by the Faculty Council decree No.7528, in its session No. 191, dated: 15/3/2010. The adoption of NARS and the suggested ARS were approved by University council degree No 587, in its session No.60. dated 26-12-2011.

5. Curriculum Structure and Contents:

5.a- **Program duration:** 6 semesters (3 years).

5.b- **Program structure:**

5.b.i- No. of hours per week:

Subject	hours /week		
	Lectures	Practical	Clinical
First Part:			
Physiology	2	----	---
Biochemistry	2	----	----
Medical Microbiology & Immunology	2	----	----
Pathology	1	2	----
Internal medicine & Psychiatry	1	----	2
General Surgery	1	1	1
Biostatistics & Computer and Research Methodology	1	2	----
Second Part:			
Dermatology	3	----	4
Venereology & Andrology	2	----	2.66

code	Item	No	%	
b.i	Total credit hours	Compulsory	٥٠	١٠٠
		Elective	٠	٠
		Optional	٠	٠
b.iii	credit hours of basic sciences courses	6	12	
b.iv	credit hours of courses of social sciences and humanities	٠	٠	
b.v	credit hours of specialized courses:	25	50	
b.vi	credit hours of other course	14	28	
b.vii	Practical/Field Training	٥	١٠	
b.viii	Program Levels (in credit-hours system):			
	Level 1: 1 st part	١4	28	
	Level 2: 2 nd Part	٢5	50	
	Level 3: Thesis	٦	١٢	

6. Program Courses: 8 courses are compulsory.

c.1- Level of program:

Semester...1.....

First part

a. Compulsory

Course Title	Total No. of credit hours	No. of hours /week			Program ILOs Covered
		Lect.	Lab.	Clinical	
FIRST PART					
<u>a- Compulsory:</u>					
Physiology	2	2	--	--	a.1, a.2, a.3, b.3, c.3, d.2
Biochemistry	2	2	--	--	a.1, a.2, a.3, b.3, c.3, d.2
Medical Microbiology & Immunology	2	2	--	--	a.1, a.4, a.5, a.6, a.7, a.8, a.9, b.2, b.7, c.3, d.2
Pathology	2	1	2	--	a.1, a.2, a.3, a.4, a.6, a.8, b.3, c.4, d.2
Internal medicine & Psychiatry	2	1	--	2	a.4, a.5, a.6, a.9, a.10, b.1, b.3, c.2, c.3, c.4, c.5, d.2
General Surgery	2	1	1	1	a.4, a.9, b.1, b.3, c.2, d.2
Biostatistics & Computer and Research Methodology	2	1	2	--	a16, b4, b8, c3, d2, d4.
SECOND PART					
Dermatology	15	3	--	4	a.1, a.2, a.3, a.4, a.5, a.6, a.7, a.8, a.9, a.10, a.11, a.12, a.13, a.14, a.15, b.1, b.2, b.3, b.4, b.5, b.6, b.7, b.8, c.1, c.2, c.3, c.4, c.5, c.6, c.7, c.8, d.1, d.2, d.3, d.4, d.5, d.6, d.7, d.8
Venereology & Andrology	10	2	--	2.66	a.1, a.2, a.3, a.4, a.5, a.6, a.7, a.8, a.9, a.10, a.11, a.12, a.13, a.14, a.15, b.1, b.2, b.3, b.4, b.5, b.6, b.7, b.8, c.1, c.2, c.3, c.4, c.6, c.7, c.8, d.1, d.2, d.3, d.4, d.5, d.6, d.7, d.8

7. Program Admission Requirements

I- General Requirements.

1. Candidate should have either:
 - i. MBBch degree from any Egyptian Faculty of Medicine or
 - ii. Equivalent Degree from Medical Schools abroad approved by the ministry of high Education.
2. Candidate should pass the house office training year.
3. Those who are not university hospital residents should pass training for at least 12 months in one of the known hospitals.
4. Follow postgraduate bylaw Regulatory rules of Sohag Faculty of Medicine approved by the ministerial decree No. (44), dated 6/1/2010.

II. Specific Requirements:

- Candidates graduated from Egyptian Universities should have at least "Good Rank" in their final year/cumulative year's examination, and

grade "Good Rank" in Dermatology, Venereology and Andrology course too.

- Candidates should know how to speak and write English well.
- Candidates should have computer skills.

8. Regulations for Progression and Program Completion

Duration of program is 50 credit hours (≥ 4 semesters ≥ 3 years), starting from registration till 2nd part exam; divided to:

First Part: (14 Credit hours ≥ 6 months ≥ 1 semester):

- Program-related basic & clinical sciences & research Methodology, Ethics & medical reports, Biostatistics and computer.
- At least six months after registration should pass before the student can ask for examination in the 1st part.
- Two sets of exams: 1st in October — 2nd in April.
- At least 50% of the written exam is needed to pass in each course.
- For the student to pass the first part exam, a score of at least 60% (Level D) in each course is needed.
- Those who fail in one course need to re-exam it only for the next time only, and if re-fail, should register for the course from the start.

Thesis/Essay (6 Credit hours ≥ 6 months=1 semester):

- Completion of the 1st part credit hours and passing the exams are pre requisites for documentation of the **Thesis/Essay** subject.
- Should be completed, defended and accepted after passing the 1st part examination, and at least one month before allowing to enter 2nd part final examination.
- Accepting the thesis is enough to pass this part.

Second Part: (25 Credit hours ≥ 18 months= 3 semesters):

- Program related specialized sciences of Dermatology, Venereology & Andrology courses
- Completion of the 1st part credit hours and passing the exams are pre requisites for documentation of the 2nd part courses.
- After passing at least:
 - University hospital residents: 36 months residency in the department of Dermatology, Venereology & Andrology.
 - Residents in other places: Completed 36 months residency; 12 months of them training in the department of Dermatology, Venereology & Andrology.
- The students should pass the 1st part before asking for examination in the 2nd part.
- Fulfillment of the requirements in each course as described in the template and registered in the log book (5 Credit hours; with obtaining $\geq 75\%$ of its mark) is a prerequisite for candidates to be assessed and undertake part 1 and part 2 examinations; the credit hours of the logbook are calculated as following:
 - Each Cr. Hr.= 60 working Hrs.
 - Logbook= 5 Cr. Hr. X 60 working Hrs = 300 Working Hrs.

- Collection of working Hrs. is as following:

Activity		Hrs
Grand rounds	اجتماع علمي موسع	٦
Training courses	دورات تدريبية	12/ day
Conference attendance	حضور مؤتمرات علمية داخلي خارجة	١٢/day 18/day
Thesis discussion	حضور مناقشات رسائل	٦
Workshops	حضور ورش عمل	١٢/day
Journal club	ندوة الدوريات الحديثة	٦
Seminars	لقاء علمي موسع	٦
Morbidity and Mortality conference	ندوة تحليل المخاطر المرضية أو الوفاة	٦
Self education program	برنامج التعليم الذاتي	٦

- Two sets of exams: 1st in October - 2nd in April.
- At least 50% of the written exam is needed to pass in each course.
- For the student to pass the 2nd part exam, a score of at least 60% (Level D) in each course is needed.

9. Methods of student assessments:

Method of assessment	weight	The assessed ILOs
1-Activities		- General transferable skills, intellectual skills
2-Written Exams: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	50%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills
3-OSCE/ OSPE	50%	-Practical skills, intellectual skills, general transferable skills
4-Structured Oral Exams		- Knowledge, Intellectual skills, General transferable skills

Assessment schedule:

Part I:

- Physiology: Written Exam (2 hours) + Structured oral Exam
- Biochemistry: Written Exam (2 hours) + Structured oral Exam
- Medical Microbiology & Immunology: Written Exam (2 hours) + Structured oral Exam
- Pathology: Written Exam (2 hours) + structured oral Exam+ OSPE
- Internal medicine and Psychiatry: Written Exam (3 hours) + OSCE + Structured oral Exam
- General Surgery: Written Exam (2 hours) + OSCE + Structured oral Exam
- Biostatistics & Computer and Research Methodology: Written Exam (2 hours) + Structured oral Exam+ OSPE

Part II:

- Dermatology Venereology & Andrology: Four Written Exams (3 hours for each Two Written Exam for Dermatology, Two Written Exam for Venereology & Andrology) + OSCE + Structured oral Exam.

10. Evaluation of Program:

Evaluator	Tool	Sample
1- Senior students	Questionnaire	5
2- Alumni	Questionnaire	17
3- Stakeholders (Employers)	Questionnaire	18
4- External Evaluator(s) (External Examiner(s))	Reports	1
5- Other		

COURSE SPECIFICATION OF Medical PHYSIOLOGY FOR MASTER DEGREE IN DERMATOLOGY, VENEROLOGY AND ANDROLOGY

Sohag University

Faculty of Medicine

1. Program on which the course is given: Master Degree in Dermatology, Venereology and Andrology
2. Major or Minor element of program: Minor
3. Department offering the program: Department of Dermatology, Venereology and Andrology
4. Department offering the course: Department of Medical Physiology
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic information:

Title: Medical Physiology

Code: PHY 0507-200

Total hours:

Lectures	Practical	Tutorial	Credit hours
30	-----	-----	2

B. Professional information:

1. Overall Aims of Course:

1. To prepare Dermatology, Venereology & Andrology physician oriented with the physiology of skin & sweat glands also that of pain sensation, its receptors & disorders as itching sensation & hyperalgesia.
2. It is very important to know the physiology of male reproductive system & its disorders.
3. In addition, graduates should have enough knowledge about the autonomic nervous system, hypothalamic regulation, skin pigmentation in addition to the physiology of some endocrine glands as thyroid adrenal & pituitary also pancreas.

2. Intended Learning Outcomes of Courses (ILOs):

a) Knowledge and Understanding:

By the end of this course, students should have adequate knowledge about:

- a1.** Mention the normal function of the human integumentary, endocrine and reproductive systems on the macro and micro levels.
- a2.** Mention the normal growth of the human integumentary and reproductive systems.
- a3.** Mention the abnormal, function, growth and of human integumentary and reproductive systems

b) Intellectual skills:

By the end of the course, the student is expected to be able to:

- b1.** Link between knowledge of the functions of integumentary and reproductive systems for Professional problems' solving.

c) Professional and practical skills:

By the end of the course, the student is expected to:

- c1.** Interpret the results of diagnostic procedures on physiological bases.

d) General & transferable skills:

By the end of the course, the student is expected to:

- d1.** Use information technology of the functions of the integumentary and reproductive systems to serve the development of professional practice

3. Contents of the Course:

Topic	No. of hours	Lecture	Practical
Skin functions & sweat glands	2	2	
The physiology of the autonomic nervous system	4	4	
The physiology of male reproductive system & its disorders	4	4	
Regulation of body temperature	4	4	
Hypothalamic thermostat	2	2	
Pain sensation, receptors & disorders	4	4	
Itching sensation, hyperalgesia	2	2	
Skin pigmentation	2	2	
Thyroid, adrenal, pancreas & pituitary glands	6	6	
Total	30	30	
Credit	2	2	

4. Teaching and Learning Methods:

4.1- Lectures

4.2- Assignment

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2- Written Exams:	- Knowledge
-Short essay: 40%	- Knowledge
-structured questions: 25%	- Knowledge, intellectual skills
-MCQs: 20%	- Intellectual skills, General transferable skills,
-Commentary, Problem solving: 15%	- Practical skills, intellectual skills
5.3- Structured Oral Exams	- Knowledge

Assessment Schedule

Assessment 1: Final written exam week: 24-28
Assessment 2: Oral exam week: 24-28

Weighting of Assessments:

Final Written Examination	50 %
Oral Examination	50 %
Other types of assessment	0%
Total	100%

Formative only assessment: simple research assignment, attendance and absenteeism

6. List of References:

6.1.-Essential Books (Text Books):

Medical physiology books by Staff Members of the Department of Medical physiology -Assiut University.

6.2- Recommended Books:

- Gyton textbook of physiology
- William F. Ganong: Review of Medical Physiology, 25th Edition, McGraw-Hill Companies, 5015.

6.3- Periodicals, Web Sites, ... etc

- American journal of physiology.
- Journal of applied physiology.
- Journal of clinical endocrinology and metabolism.
- Physiological Review.

7. Facilities Required for Teaching and Learning

1. Appropriate teaching class
2. Computers and data show

Course Coordinator:Dr. Hoda Moustafa

Head of Departments: Prof. Hoda Mostafa

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

COURSE SPECIFICATION OF MEDICAL BIOCHEMISTRY FOR MASTER DEGREE IN DERMATOLOGY, VENEROLOGY AND ANDROLOGY

Sohag University

Faculty of Medicine

1. Program on which the course is given: Master Degree in Dermatology, Venereology and Andrology
2. Major or Minor element of program: Minor
3. Department offering the program: Department of Dermatology, Venereology and Andrology
4. Department offering the course: Department of Medical Biochemistry
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic information:

Title: Medical Biochemistry

Code: BIO 0507-200

Total hours:

Lectures	Practical	Tutorial	Credit hours
30	-----	-----	2

B. Professional information:

1. Overall Aims of Course:

By the end of the course the post graduate students should be able to have the professional knowledge of the biochemistry of the dermatology diseases, and able to protect and diagnose any vitamin deficiency for any diseases

2. Intended Learning Outcomes of Courses (ILOs):

a) Knowledge and Understanding:

By the end of the course, the graduate should be able to:

- a1.** Mention the normal structure and function of the human integumentary and reproductive systems on biochemical bases.
- a2.** Mention the normal development of the human integumentary and reproductive systems on biochemical bases.
- a3.** Mention the abnormal structure, function and development of human integumentary and reproductive systems on biochemical bases.

b) Intellectual Skills:

By the end of the course, the graduate should be able to:

- b1.** Link between biochemical knowledge for Professional problems' solving.

c) Professional and Practical Skills:

By the end of the course, the graduate should be able to:

- c1.** Interpret the results of diagnostic procedures on biochemical bases.

d) General and Transferable Skills:

By the end of the course, the graduate should be able to:

- d1.** Use information technology of Biochemistry to serve the development of professional practice.

3. Contents of the Course:

Topic	No. Of hours	Lecture	Tutorial /Practical
New advances in information technology of Biochemistry	1	1	
Fructose Metabolism	2	2	
Glycolysis, Krebs cycle	2	2	
Hexose monophosphate	2	2	
Eicosanoides	1	1	
Sex Hormones	2	2	
Diabetes	2	2	
Vitamin A, E; Minerals (Zinc)	2	2	
Lipid profile, essential fatty acids	2	2	
Mutation	2	2	
Levels of protein structures	2	2	
Epithelial and connective tissue	2	2	
Keratin and white fibrous tissue (Elastin and collagen)	2	2	
Biochemistry of hyaluronic acid and chondroitin sulphates A, B,C	2	2	
Skin and hair pigmentations.	2	2	
Dermatomyositis and dermatosis	2	2	
Total:	30	30	
Credit	2	2	

4. Teaching and Learning Methods:

4.1- Lectures

4.2- Assignment

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exams:	- Knowledge
-Short essay: 40%	- Knowledge
-structured questions: 25%	- Knowledge, intellectual skills
-MCQs: 20%	- Intellectual skills, General transferable skills,
-Commentary, Problem solving: 15%	- Practical skills, intellectual skills
5.3-Structured Oral Exams	- Knowledge

Assessment Schedule

Assessment 1: Final written exam	week: 24-28
Assessment 2: Oral exam	week: 24-28

Weighting of Assessments:

Final Written Examination	50 %
Oral Examination	50 %
Other types of assessment	0%
Total	100%

Formative only assessment: simple research assignment, attendance and absenteeism

6. List of References:

6.1- Essential Books (Text Books)

1. Text book of Biochemistry For Medical students 8th edition by DM Vasudevan 2016
2. Harper's illustrated Biochemistry 31 edition by victor Rodwell et al 2018

6.2- Recommended Books

1. Lectures notes on clinical Biochemistry, Whitby et al 1993
2. Lippincott's illustrated reviews Biochemistry, Champe, PC, Harvey, RA, 2007

6.3- Periodicals, Web Sites, ... etc

- <http://www.ncbi.nlm.gov/>
- <http://www.vlib.org/>
- [www.genome.ad.jp/kegg/regulation.](http://www.genome.ad.jp/kegg/regulation)
- Findarticle.com
- Freemedicaljournals.com

7. Facilities Required for Teaching and Learning

1. Appropriate teaching class
2. Computers and data show

Course Coordinator. Dr. Amira Morad Foad

Head of Departments: Dr. Nagwa Sayed Ahmed Hassan

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

COURSE SPECIFICATION OF MEDICAL MICROBIOLOGY & IMMUNOLOGY FOR MASTER DEGREE IN DERMATOLOGY, VENEROLOGY AND ANDROLOGY

Sohag University

Faculty of Medicine

1. Program on which the course is given: Master Degree in Dermatology, Venereology and Andrology
2. Major or Minor element of program: Minor
3. Department offering the program: Department of Dermatology, Venereology and Andrology
4. Department offering the course: Department of Medical Microbiology & Immunology
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic information:

Title: Medical Microbiology & Immunology

Code: MIC 0507-200

Total hours:

Lectures	Practical	Tutorial	Credit hours
30	-----	-----	2

B. Professional information:

1. Overall Aims of Course:

By the end of the course the postgraduate student should be efficiently able to have basic knowledge of the microorganisms affecting human beings all over the world and particularly in Egypt, and learn to use the knowledge gained from applied microbiology to better understand the pathology, clinical symptoms, complications and the laboratory tests needed for diagnosis of each disease, in particular how to use microbiological testing in determining antibiotic prescription.

The student is also expected to acquire advanced knowledge about the structure and function of the immune system and the role of the immune system in health and disease.

2. Intended Learning Outcomes of Courses (ILOs):

a) **Knowledge and Understanding:**

By the end of the course the student is expected to:

- a1. Mention the normal structure and function of the immune system related to the human integumentary and reproductive systems
- a2. Mention the natural history of Dermatological and Venereal problems caused by microbial pathogens.
- a3. Enumerate the common diagnostic and laboratory techniques necessary to establish diagnosis of dermatological and venereal illnesses that caused by microbial pathogens.

- a4. Mention the causation of disease and disease pathogenesis.
- a5. Enumerate methods of promoting health and preventing illness.
- a6. Describe the scientific methods of establishing disease causation.
- a7. Mention the various diagnostic and laboratory techniques necessary to establish diagnosis of various dermatological and venereal illnesses.

b) Intellectual Skills:

By the end of the course, the student is expected to:

- b1. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for Dermatological and Venereal problems.
- b2. Identify Dermatological and Venereal problems and find solutions.

c) Professional and Practical Skills:

By the end of the course, the student should be able to:

- c1. Interpret the results of diagnostic procedures.

d) General and Transferable Skills:

By the end of the course, the student should have the ability to:

- d1. Use information technology of microbiology and immunity to serve the development of professional practice.

3. Contents of the Course:

Topic	No. of hours	Lecture	Practical
<u>General Bacteriology</u>			
Bacterial anatomy & Physiology	1	1	
Bacterial genetics	1	1	
Recombinant DNA technology	1	1	
Antibiotics	1	1	
Sterilization & Disinfection	1	1	
<u>Systematic Bacteriology</u>			
Gram +ve cocci	1	1	
Gram -ve cocci	1	1	
Gram +ve bacilli	1	1	
Gram -ve bacilli	1	1	
<u>General virology</u>			
<u>Systematic Virology</u>			
RNA viruses	2	2	
DNA viruses	2	2	
<u>Mycology</u>			
Fungal classifications	2	2	
Opportunistic mycosis & Antifungal drugs	2	2	
<u>Immunology</u>			
Congenital & Acquired Immunity	1	1	
Immunological Cells	2	2	
Hypersensitivity	2	2	

Transplantation	1	1	
Tumor Immunology	1	1	
Immunodeficiency	2	2	
<u>Applied Microbiology</u>	2	2	
Total	30	30	
Credit	2	2	

4. Teaching and Learning Methods:

- 4.1- Lectures
- 4.2- Assignment

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exams:	- Knowledge
-Short essay: 40%	- Knowledge
-structured questions: 25%	- Knowledge, intellectual skills
-MCQs: 20%	- Intellectual skills, General transferable skills,
-Commentary, Problem solving: 15%	- Practical skills, intellectual skills
5.3-Structured Oral Exams	- Knowledge

Assessment Schedule

Assessment 1: Final written exam week: 24-28

Assessment 2: Oral exam week: 24-28

Weighting of Assessments:

Final Written Examination	50 %
Oral Examination	50 %
Other types of assessment	0%
Total	100%

Formative only assessment: simple research assignment, attendance and absenteeism

6. List of References:

6.1-Essential Books (Text Books):

Medical microbiology and immunology by Prof. Abla Elmeshad

6.2- Recommended Books:

Jawetz Medical Microbiology 2016.

Roitt Essential Immunology.

Abbas Clinical Immunology

Alberts Molecular Biology

A coloured Atlas of Microbiology.

Topley and Wilson, Microbiology

6.3 Periodicals, Web Sites, ... etc

Microbiology Immunology

<http://mic.sgmjournals.org/>

7. Facilities Required for Teaching and Learning

1. Appropriate teaching class
2. Computers and data show

Course Coordinator: Dr/ Ekram Abd-ElRahman

Head of Departments: Dr. Abeer SH. Mohamed

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018

COURSE SPECIFICATIONS OF PATHOLOGY FOR MASTER DEGREE IN DERMATOLOGY, VENEROLOGY AND ANDROLOGY

Sohag University

Faculty of Medicine

1. Program on which the course is given: Master Degree in Dermatology, Venereology and Andrology
2. Major or Minor element of program: Minor
3. Department offering the program: Department of Dermatology, Venereology and Andrology
4. Department offering the course: Department of Pathology
5. Academic year / Level : 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic Information:

Title: Pathology

Code: PAT: 0507-200

Total hours:

Lectures	Practical:	Tutorial	Credit hours
15	30	-----	2

B. Professional Information:

1. Overall Aims of Course:

By the end of the course, the post graduate students should be able to have the professional knowledge of the pathology of medical diseases.

2. Intended Learning Outcomes (ILOs):

a) **Knowledge and Understanding:**

By the end of the course, the student should be able to:

- a1. Mention the normal structure of the human integumentary and reproductive systems on the micro levels.
- a2. Mention the normal growth and development of the human integumentary and reproductive systems.
- a3. List the abnormal structure, growth and development of human integumentary and reproductive systems and natural history of various dermatological, venereal and andrological diseases.
- a4. Mention the natural history of Dermatological, Venereal and Andrological problems from the pathological point of view with understanding the related basis of general and systemic pathology.
- a5. Mention the causation of disease and disease pathogenesis and correlate gross and microscopic histopathology with the clinical features.
- a6. Describe the scientific methods of establishing disease causation.

b) **Intellectual Skills:**

By the end of the course, the student should be able to:

- b1. Link between knowledge of Pathology for Professional problems' solving.

c) **Professional and Practical Skills:**

By the end of the course, the student should be able to:

- c1. Diagnose common illnesses with the aid of the macroscopic and microscopic criteria of the altered structure (pathology) of the body and its major organs and systems that are seen in various diseases related to Dermatology, Venereology and Andrology.

d) General and Transferable Skills:

By the end of the course, the student should be able to:

- d1.** Use information technology of Pathology to serve the development of professional practice

3. Course contents:

Topic	No. of hours	Lecture	Practical
1- General Pathology:			
1.1. Inflammation & repair.	1.5	0.5	1
1.2. Cell response to injury and aging.	1.5	0.5	1
1.3. Immunity and hypersensitivity.	2	1	1
1.4. Pigmentation.	2.5	0.5	2
1.5. Bacterial infection.	1.5	0.5	1
1.6. Tuberculosis.	2.5	0.5	2
1.7. Leprosy.	3	1	2
1.8. Viral diseases.	2.5	0.5	2
1.9. Mycotic diseases.	2.5	0.5	2
1.10. Protozoal diseases.	1.5	0.5	1
1.11. Vitamin deficiency.	1.5	0.5	1
1.12. Effect of ionizing irradiation.	1.5	0.5	1
2- Male genital system:			
2.1. Inflammation & infection.	1.5	0.5	1
2.2. Male infertility & testicular biopsy.	3	1	2
3- Female genital system:			
3.1. Inflammation & infections of the vulva, vagina & cervix uteri.	1.5	0.5	1
3.2. Mastitis & Paget's disease of the breast.	1.5	0.5	1
4- Skin:			
4.1. Introduction to dermatopathologic diagnosis.	1.5	0.5	1
4.2. Biopsy & laboratory techniques.	1.5	0.5	1
4.3. Dermatitis & dermatosis.	2	1	1
4.4. Discoid lupus erythematosus & scleroderma.	1.5	0.5	1
4.5. Tumors & tumor like lesions of the skin.	1.5	0.5	1
4.6. Tumors of the epidermis & dermis	2	1	1
4.7. Tumors of skin appendages.	1.5	0.5	1
4.8. Nevi & melanomas.	2	1	1
Total:	45	15	30
Credit	2	1	1

4. Teaching and Learning Methods:

- 4.1- Lectures
- 4.2- Practical lessons (Gross and histopathology (Jars & slides)
- 4.3- Assignment

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exams:	- Knowledge
-Short essay: 40%	- Knowledge
-structured questions: 25%	- Knowledge, intellectual skills
-MCQs: 20%	- Intellectual skills, General transferable skills,
-Commentary, Problem solving: 15%	- Practical skills, intellectual skills
5.3-Structured Oral Exams	- Knowledge

Assessment Schedule:

- Assessment 1: Final written exam week: 24-28
- Assessment 2: Oral exam week: 24-28

Weighting of Assessments:

Final Written Examination	50 %
Oral Examination	50 %
Other types of assessment	0%
Total	100%

Formative only assessment: simple research assignment, attendance and absenteeism

6. List of References:

6.1- Essential Books (Text Books):

- Muir's text book of pathology, 15th edition, 2014.
- Robbins Pathologic Basis of Diseases, 10th edition, 2015.

6.2- Recommended Books:

- Rosai&Ackerman text book of Pathology, 11th edition,2017
- Sternberg text book of Pathology, 6th edition, 2015.

6.3- Periodicals:

- Journal of Pathology
- Human Pathology
- Modern Pathology
- Histopathology
- American Journal of Pathology.

Web Sites: - <http://www.ncbi.nlm.nih.gov/pubmed/>

- <http://www.uscap.org>
- <http://www.aacr.org>
- <http://www.ascp.org>

7. Facilities Required for Teaching and Learning:

- a. Library & textbooks.
- b. Computer & data show.
- c. Internet connection.

Course Coordinator: Dr. Fatma El Zhraa Salah El Deen

Head of Department: Dr. Afaf Al-Nashar

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

COURSE SPECIFICATION OF GENERAL SURGERY FOR MASTER DEGREE IN DERMATOLOGY, VENEROLOGY AND ANDROLOGY

Sohag University

Faculty of Medicine

1. Program on which the course is given: Master Degree in Dermatology, Venereology and Andrology
2. Major or Minor element of program: Minor
3. Department offering the program: Department of Dermatology, Venereology and Andrology
4. Department offering the course: Department of General Surgery
5. Academic year / Level : 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: General Surgery courses

Code: SUR 0507-200

Lectures	Practical	Tutorial	Credit hours
15	30	-----	45

B. Professional Information

1. Overall Aims of Course:

By the end of the course of General Surgery, the candidate should be able to:

- 1- Deal with common surgical conditions on the basis of adequate history taking, physical examination, interpretation of relevant supportive investigations and management.
- 2- Deal with acute surgical emergencies safely and effectively.
- 3- Identify the indications and logistics of referring patients to higher levels of experience or specialization.
- 4- Perceive and integrate progress in surgical technology.

2. Intended Learning Outcomes of Course (ILOs):

a) **Knowledge and Understanding:**

By the end of the course, the student is expected to be able to:

- a1. Mention the natural history of Dermatological, Venereal and Andrological problems that are related to the General Surgery practice.
- a2. Mention the various diagnostic and laboratory techniques necessary to establish diagnosis of various dermatological, venereal and andrological illnesses that need surgical intervention.

b) **Intellectual Skills:**

By the end of the course, the student is expected to be able to:

- b1. Integrate data acquired through history taking to reach a provisional diagnosis for various Dermatological, Venereal and Andrological problems that are related to General Surgery.

b2. Link between knowledge of General Surgery for Professional problems' solving.

c) Professional and Practical Skills:

By the end of the course, the student is expected to be able to:

c1. Perform physical examination of patients for dermatological and reproductive systems for Dermatological, Venereal and Andrological problems that are related to General Surgery.

d) General and Transferable Skills

By the end of the course, the student is expected to be able to:

d1. Use information technology of General Surgery to serve the development of professional practice.

3. 3- Contents:

Topic	No. of hours	Lecture	Practical
A- General:			
Introduction	1	1	-
Burn	4	1	۳
Antibiotics	4	1	۳
B- Special:			
Tumors of skin	5	۱	4
Varicose veins	3	1	۲
D.D. of Leg ulcers	5	2	3
D.D. of Inguino-scrotal swelling	5	۱	4
Acute scrotum	5	۲	3
Varicocele, Hydrocele	6	۲	4
Lymphadenopathy	4	2	2
Keloid	3	1	2
Total	45	۱۰	30
Credit	2	1	1

4. Teaching and Learning Methods:

- 4.1- Lectures
- 4.2- Clinical lessons
- 4.3- Assignment

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exams:	- Knowledge
-Short essay: 40%	- Knowledge
-structured questions: 25%	- Knowledge, intellectual skills
-MCQs: 20%	- Intellectual skills, General transferable skills,
-Commentary, Problem solving: 15%	- Practical skills, intellectual skills
5.3-Structured Oral Exams	- Knowledge

Assessment Schedule:

Assessment 1: Final written exam	week: 24-28
Assessment 2: Oral exam	week: 24-28
Assessment 3: Clinical exam	week: 24-28

Weighting of Assessments

Written Examination	50 %
Clinical Examination	30 %
Oral Examination	20%
Other types of assessment	0 %
Total	100%

Formative only assessment: simple research assignment, attendance and absenteeism.

6. List of References:**6.1- Essential Books (Text Books):**

Principles of General Surgery, prof. Nawara

6.2- Recommended Books: Bailey & Love textbook of Surgery

6.3- Periodicals, Web Sites, ... etc:International Journal of General Surgery

American Journal of General Surgery

7. Facilities Required for Teaching and Learning:

- Lecture rooms
- Round rooms
- Accessibility to hospital wards, clinics and emergency department
- Audio-visual teaching equipments (computers, data show projector, video, etc.)
- Models and mannequins
- Video tapes and scientific pictures archives.
- Radiology collections and archives.
- Library for the department.

Course Coordinator: Dr. Alaa El-Dean Hassan

Head of Department: Prof. Nabil Abo El - Dahab

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

**COURSE SPECIFICATION OF INTERNAL MEDICINE & PSYCHIATRY
FOR MASTER DEGREE IN DERMATOLOGY, VENEROLOGY AND
ANDROLOGY**

Sohag University

Faculty of Medicine

1. Program on which the course is given: Master Degree in Dermatology, Venereology and Andrology
2. Major or Minor element of program: Minor
3. Department offering the program: Department of Dermatology, Venereology and Andrology
4. Department offering the course: Department of Internal Medicine, Department of Neurology and Psychiatry Dermatology
5. Academic year / Level : 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Internal Medicine and Psychiatry

Code: MED 0507-200

Total hours:

Module	Lectures	Practical	Credit
Internal Medicine	10	30	-----
Psychiatry	5	-----	-----
Total	15	30	2

B. Professional Information

1. Overall Aims of Course:

Internal Medicine module:

By the end of the course of Internal Medicine, the candidate should be able to:

- 1- Deal with common medical conditions on the basis of adequate history taking, physical examination, interpretation of relevant supportive investigations and management.
- 2- Deal with acute medical emergencies safely and effectively.
- 3- Identify the indications and logistics of referring patients to higher levels of experience or specialization.
- 4- Perceive and integrate progress in medical technology.

Psychiatry module:

Upon successful completion of this course, the graduates should be able to enumerate, expect and diagnose psychiatric disorders that relate to (cause or associate or exacerbate) skin or venereal diseases and be aware & can apply this knowledge in the management of his patient disorders.

2. Intended Learning Outcomes of Course (ILOs):

Internal Medicine module:

a) Knowledge and Understanding:

By the end of the course, the student is expected to be able to:

- a1. Mention the natural history of Dermatological, Venereal and Andrological problems that related to systemic medical diseases.
- a2. Enumerate the common diagnostic and laboratory techniques necessary to establish diagnosis of dermatological, venereal and andrological illnesses that related to systemic medical diseases.
- a3. Mention the causation of disease and disease pathogenesis of systemic medical diseases the related to the practice of Dermatology, Venereology and Andrology.
- a4. Mention the various diagnostic and laboratory techniques necessary to establish diagnosis of various dermatological, venereal and andrological illnesses that caused by systemic medical illness.
- a5. List the various therapeutic methods /alternatives used for various dermatological, venereal and andrological illnesses that caused by systemic medical illness.

b) Intellectual Skills:

By the end of the course, the student is expected to be able to:

- b1. Integrate data acquired through history taking to reach a provisional diagnosis for various Dermatological, Venereal and Andrological problems that related to systemic medical diseases.
- b2. Link between knowledge of Internal Medicine for Professional problems' solving.

c) Professional and Practical Skills:

By the end of the course, the student is expected to be able to:

- c1. Interpret the results of diagnostic procedures of common systemic medical illness.
- c2. Diagnose common systemic medical illnesses that are associated with Dermatological, Venereal and Andrological problems.
- c3. Recognize patients with life threatening dermatological conditions and initiate the proper management according to patient's needs.

d) General and Transferable Skills:

By the end of the course, the student is expected to be able to:

- d1. Use information technology of Internal Medicine to serve the development of professional practice.

Psychiatry module:

a) Knowledge and Understanding:

By the end of the course, the student is expected to be able to:

- a1. Mention the natural history of the various psychiatric disorders associated with or related to Dermatological, Venereal and Andrological problems.
- a2. Enumerate the common diagnostic and laboratory techniques necessary to establish diagnosis of the various psychiatric disorders associated with or related to dermatological, venereal and Andrological illnesses.
- a3. List the various therapeutic methods /alternatives used for the various psychiatric disorders associated with or related to dermatological, venereal and Andrological illnesses.

b) Intellectual Skills:

By the end of the course, the student is expected to be able to:

- b1. Integrate data acquired through history taking to reach a provisional diagnosis for various psychiatric disorders associated with or related to Dermatological, Venereal and Andrological problems.

c) Professional and Practical Skills:

By the end of the course, the student is expected to be able to:

- c1.** Perform physical examination of patients with dermatological and Andrological problems for various psychiatric disorders.

d) General and Transferable Skills:

By the end of the course, the student is expected to be able to:

- d1.** Use information technology of Psychiatry to serve the development of professional practice.

3. Contents:

Internal Medicine module:

Topic	No. of hours	Lecture	Practical
1-General:			
Skin pigmentation and rashes	1.5	0.5	1
Porphyries, Dyslipidemia	1.5	0.5	1
2-Endocrinology:			
<u>Disorders of the thyroid gland:</u> Hypothyroidism, Hyperthyroidism	1.5	0.5	1
<u>Disorders of the adrenal cortex:</u> -Cushing syndrome -Aldosteronism -Adrenogenital syndrome -Hypoadrenaism -Pheochromocytoma	3	1	2
Diabetes mellitus	3	1	2
3- Hematology:			
Anemias: -Iron deficiency anemia -Megaloplastic anemia -Hemolytic anemias -Aplastic anemia	3	1	2
Acute leukemias, Lymphomas	1.5	0.5	1
Thrombocytopenia -Purpura	1.5	0.5	1
4-Nephrology:			
Nephrotic syndrome, Chronic renal failure	3.5	0.5	3
5-Gastroenterology and hepatology:			
Crohn's disease, Ulcerative colitis	3.5	0.5	3
Acute & Chronic hepatitis	3.5	0.5	3
Cirrhosis, Hepatocellular failure	2.5	0.5	2
6-Rheumatology:			
-Systemic lupus erythromatosis -Scleroderma	3	1	2
Rheumatoid arthritis	2.5	0.5	2
Crystal deposition arthropathy	2.5	0.5	2
Mixed connective tissue disease	2.5	0.5	2
Total	40	10	30

Psychiatry module:

Topic	No. hours	Lecture	Practical
<u>General Psychology</u> • Physician–Patient Relationship • Professional Ethics and Boundaries	1	1	----
<u>Psychiatric interview</u>	0.5	0.5	----
<u>Somatoform disorders</u>	0.5	0.5	----
<u>Sexual and gender identity disorders</u> • Sexual dysfunctions • Paraphilias • Gender identity disorders	1	1	----
<u>Impulse control disorders</u> • trichotellomania	1	1	----
<u>Psychiatric Medication related skin disorders</u>	1	1	----
Total:	5	5	-----

4. Teaching and Learning Methods:

- 4.1- Lectures
- 4.2- Clinical lessons
- 4.3- Assignment

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exams: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills, - Practical skills, intellectual skills
5.3-Structured Oral Exams	- Knowledge

Assessment Schedule:

- Assessment 1: Final written exam week: 24-28
- Assessment 2: Oral exam week: 24-28
- Assessment 3: Clinical exam week: 24-28

Weighting of Assessments

Written Examination	50 %
Clinical Examination	30 %
Oral Examination	20%
Other types of assessment	0 %
Total	100%

Formative only assessment: simple research assignment, attendance and absenteeism.

6. List of References:

Internal Medicine module:

6.1- Essential Books (Text Books)

- Kumar and Clarke Textbook of Medicine; Parveen Kumar and Richard Clark; Blackwell Science; 9th edition, 2018
- Hutchison's Clinical Methods; Robert Hutchison; Harry Rainy; 24st edition;2018

6.2- Recommended Books

- Goldman-Cecil Textbook of Medicine;25th edition, 2018.
- Harrison's principles of internal medicine,20th edition, 2018.

6.3- Periodicals, Web Sites, ... etc

Psychiatry module:

1) Essential books:

- Brain 's Disease of The Nervous System

2) Recommended books:

- Adams & Victor's, Principle of Clinical Neurology.
- Neurology in clinical practice.
- Clinical Neurology.
- Manual of neurologic therapeutics.
- Merret's Neurology.

3) Periodicals, Web Sites:

<http://www.ncbi.nlm.gov> .com

www.neurology.org

<http://www.freemedicaljournals.com>

7. Facilities Required for Teaching and Learning:

- Lecture rooms
- Round rooms
- Accessibility to hospital wards, clinics and emergency department
- Audio-visual teaching equipments (computers, data show projector, video, etc.)
- Models and mannequins
- Video tapes and scientific pictures archives.
- Radiology collections and archives.
- Library for the department.

Course Coordinator:

Internal Medicine module: Dr. Mohamed Mustafa Ahmed Malak.

Psychiatry module: Prof. / Hemid Mostafa Azab, MD.

Head of Department: Usama Ahmed Arafa.

Internal Medicine module: Prof. Hassan Ahmed Hussein, MD.

Psychiatry module: Prof. / Gharib Fawy, MD

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, **Revised: 1/12/2018**

Course Specifications of Applied biostatistics (with computer use) and Research Methodology in Master degree of Dermatology, Venereology, and Andrology

Sohag University

Faculty of Medicine

1. Program title : Master degree in Dermatology, Venereology, and Andrology Department.
2. Major/minor element of the program : Minor
3. Department offering the course: Community Medicine and public Health Dep.
4. Department offering the program: Dermatology, Venereology, and Andrology.
5. Academic year /level : 1st part
6. Date of specification approval: Faculty council No. “317”, decree No. “1533” dated 17/12/2018

A. Basic Information

Title: Master degree in Dermatology, Venereology, and Andrology Biostatistics and Computer use for health services **and Research Methodology**

Code: COM: 0507-200

Total Hours:

Title	Lectures	Practical/ surgical	Total	credit
Applied biostatistics and computers & Research methodology	15	30	45	2

B. Professional Information

Applied Biostatistics Module:

1. Overall Aims of Course

- a. To influence the students to adopt an analytical thinking for evidence based medicine.
- b. To use precisely the research methodology in researches and computer programs SPSS, Epi Info and Excel in data analysis.

Research Methodology Module:

1. Overall Aims of Course

The aim of this course is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mastery of practice of specialty and necessary to provide further training and practice in the field of Public health and Community Medicine through providing:

1. Recent scientific knowledge essential for the mastery of practice of Public Health and Community Medicine according to the international standards.

2. Skills necessary for preparing for proper diagnosis and management of community problems, skills for conducting and supervising researches on basic scientific methodology.
3. Ethical principles related to the practice in this specialty.
4. Active participation in community needs assessment and problems identification.
5. Maintenance of learning abilities necessary for continuous medical education.
6. Upgrading research interest and abilities.

2. Intended Learning Outcomes of Courses (ILOs)

Applied Biostatistics Module:

a) Knowledge and understanding:

By the end of the course, the student is expected to be able to:

- a1. Mention different programs of analysis of data and statistical packages
- a2. Define the recent advances of sources of data and methods of collection.
- a3. Summarize data, construct tables and graphs
- a4. Calculate measures of central tendency and measures of dispersion
- a5. Describe the normal curves and its uses
- a6. Illustrate selected tests of significance and the inferences obtained from such tests
- a7. Illustrate selected tests of significance for parametric and non parametric inferences
- a8. Identify factor analysis and discrimination analysis.

b) Intellectual Skills

By the end of the course, the student is expected to be allowed to:

- b1. Mention how to collect and verify data from different sources
- b2. Interpret data to diagnose prevalent problems Dermatology, Venereology, and Andrology

c) Professional and Practical Skills:

By the end of the course, the student is expected to practice the following:

- c1. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of prevalent problems in Dermatology, Venereology, and Andrology

d) General and Transferable Skills:

By the end of the course, the student is expected to be able to:

- d1. Use appropriate computer program packages.
- d2. Use of different sources for information and knowledge about biostatistics.

Research Methodology Module:

2. Intended Learning Outcomes of Courses (ILOs)

a) Knowledge and understanding:

By the end of the course, the student is expected to be able to:

- a1. Define the recent advances of screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests.

- a2. Explain the usefulness of screening tests, and calculate sensitivity, specificity, and predictive values.
- a3. Describe the study design, uses, and limitations.
- a4. Mention the recent advances of principles, methodologies, tools and ethics of scientific research.
- a5. Explain the strategies and design of researches.
- a6. Describe bias and confounding.
- a7. Describe sampling techniques and list advantages of sampling
- a8. Identify principles of evidence based medicine.

b) Intellectual Skills

By the end of the course, the student is expected to be able to:

- b1. Conduct research studies that adds to knowledge.
- b2. Formulate scientific papers in the area of public health and community medicine
- b3. Innovate and create researches to find solutions to prevalent community health problems
- b4. Criticize researches related to public health and community medicine

c) Professional and Practical Skills:

By the end of the course, the student is expected to be able to:

- c1. Enumerate the basic and modern professional skills in conducting researches in the area of public health and community medicine.
- c2. Design new methods, tools and ways of conducting researches. .

d) General and Transferable Skills:

By the end of the course, the student is expected to be able to:

- d1. Use of different sources for information and knowledge to serve research.
- d2. Work coherently and successfully as a part of a team and team's leadership in conducting researches and field studies.

3. Contents

Topic	No. of hours	Lecture	Tutorial/ Practical
Applied Biostatistics Module:			
Recent advances in collection, analysis and interpretation of data	3	1	2
-Details of Tests of significance: Proportion test	3	1	2
-Chi-square test	1.5	.5	1
-Student T test	1.5	.5	1
-Paired T test	1.5	.5	1
-Correlation	1.5	.5	1
-Regression	2	1	1
-ANOVA test	3	1	2
-Discrimination analysis	3	1	2
-Factor analysis	3	1	2
-Parametric and non parametric tests	4.5	.5	4
Research Methodology Module:			
Details of epidemiological studies (case control, cohort	3	1	2

and cross sectional)			
Clinical trials, Quasi experimental study	3	1	2
Bias and errors	2	1	1
Setting a hypothesis	1.5	.5	1
Recent advances in screening	1.5	.5	1
- Evidence – based Medicine: Concept and examples Applicability Scientific writing: A protocol A curriculum	3	1	2
Setting an objective - Critical thinking	2	1	1
Formulation of papers	1.5	.5	1
Total hours	45	15	30
Total Credit hours	2	1	1

4. Teaching and Learning Methods

- 4.1- Lectures
- 4.2- Practical sessions
- 4.3- Computer search assignments
- 4.4- Computer application

5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exams: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills, - Practical skills, intellectual skills
5.3-Structured Oral Exams	- Knowledge
5.4Computer search assignment	- general transferable skills, intellectual skills

Assessment Schedule

- Assessment 1....Final written exam Week: 24
- Assessment 2.....Final oral exam Week: 24
- Assessment 3 Attendance and absenteeism throughout the course
- Assessment 4 Computer search assignment performance throughout the course

Weighting of Assessments

Final-term written examination	50%
Final oral Examination	50%
Total	100%

Formative only assessments: attendance and absenteeism and Computer search assignments performance.

6. List of References

Applied Biostatistics Module:

6.1- Essential Books (Text Books)

1-Maxy-Rosenau Public health and preventive medicine, 2008.,Robert Wallace, publisher McGraw-Hill Medical; 15 edition.

6.2- Recommended Books

1- Dimensions of Community Based projects in Health Care, 2018. Arxer, Steven L., Murphy, John W.; 1st edition.

2- Parks Text Book of Preventive & Social Medicine. 2017., K. Park. BanarsidasBhanot Publishers; 23 edition.

3- Clinical Epidemiology: The Essentials, 2013, Robert F., Suzanne W. Fletcher, Grant S., publisher Lippincott Williams & Wilkins; 5 edition.

6.3- Periodicals, Web Sites, ...etc

1-American Journal of Epidemiology

2-British Journal of Epidemiology and Community Health

3- WWW. CDC and WHO sites

Research Methodology Module:

6.1- Essential Books (Text Books)

1-Maxy-Rosenau Public health and preventive medicine, 2008.,Robert Wallace, publisher McGraw-Hill Medical; 15 edition.

6.2- Recommended Books

1- Dimensions of Community Based projects in Health Care, 2018. Arxer, Steven L., Murphy, John W.; 1st edition.

2- Parks Text Book of Preventive & Social Medicine. 2017., K. Park. BanarsidasBhanot Publishers; 23 edition.

3- Clinical Epidemiology: The Essentials, 2013, Robert F., Suzanne W. Fletcher, Grant S., publisher Lippincott Williams & Wilkins; 5 edition.

6.3- Periodicals, Web Sites, ...etc

1-American Journal of Epidemiology

2-British Journal of Epidemiology and Community Health

3- WWW. CDC and WHO sites

7. Facilities Required for Teaching and Learning:

Applied Biostatistics Module:

- Adequate conditioned space for staff and assistants.
- Adequate conditioned teaching facilities.
- Audiovisual Aids: Data show, overhead and slide projectors and their requirements.

Research Methodology Module:

- ADEQUATE INFRASTRUCTURE: including teaching places (teaching class, teaching halls, teaching laboratory), comfortable desks, good source of aeration, bathrooms, good illumination, and safety & security tools.
- TEACHING TOOLS: including screens, computers including cd (rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.

Course Coordinator: Dr/ Amera Morad Foad

Head of Department: Prof/ Ahmed Fathy Hammed

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

**COURSE SPECIFICATION OF DERMATOLOGY, VENEREOLOGY &
ANDROLOGY FOR MASTER DEGREE IN DERMATOLOGY,
VENEREOLOGY AND ANDROLOGY**

☪Sohag University

Faculty of Medicine

1. Program on which the course is given: Master degree of Dermatology, Venereology and Andrology (2nd part).
2. Major or Minor element of program: Major
3. Department offering the program: Dermatology, Venereology, and Andrology Department.
4. Department offering the course: Dermatology, Venereology, and Andrology Department.
5. Academic year / Level: 2nd part.
6. Date of specification approval: Faculty council No. “317”, decree No. “1533” dated 17/12/2018

A. Basic Information

Title: Dermatology & Venereology, and Andrology Course for Master degree (Second part)

Code: DER 0507-200

Total hours:

Module	Lectures:	Practical:	Tutorial	credit hours:
Dermatology	135 hrs	180 hrs	3 semesters	15
Venereology, and Andrology	90 hrs	120 hrs	3 semesters	10

B. Professional Information

1. Overall Aims of Course:

Dermatology module:

By the end of the course and training, the graduates should be able to:

1. Properly describe a dermatology case using the terminology accepted by dermatologists in order to be able to communicate with colleagues and consultants in the field.
2. Diagnose and effectively treat skin diseases prevalent in the community or those of public health importance.
3. Be able to carry out specialist assessment and management of a patient presenting with a dermatosis in both an inpatient and outpatient hospital setting
4. Be able to evaluate patients for contact urticaria and type I hypersensitivity and perform prick testing safely.
5. Be able to diagnose and manage patients with a photosensitive disease.

Venereology & Andrology module:

By the end of the course and training, the student should be able to:

1. Diagnose and treat STDs prevalent in the community.

2. Be aware of the changing pattern of STDs during the last three decades, their epidemiology and the factors contributing to increased prevalence.
3. Knows the causes, diagnosis and treatment of male infertility
4. Define causes, diagnostic procedures and treatment options of male sexual dysfunction.
5. Diagnose and treat female sexual dysfunction.

2. Intended Learning Outcomes of Course (ILOs):

Dermatology module:

a) Knowledge and Understanding:

By the end of the course, the graduate is expected to gain knowledge and understanding of:

- a1. Mention the normal structure and function of the human integumentary system on the macro and micro levels.
- a2. Mention the normal growth and development of the human integumentary system.
- a3. Mention the abnormal structure, function, growth and development of human integumentary system and natural history of various dermatological diseases.
- a4. Mention the natural history of Dermatological problems.
- a5. Enumerate the common diagnostic and laboratory techniques necessary to establish diagnosis of dermatological illnesses.
- a6. Mention the causation of disease and disease pathogenesis.
- a7. Enumerate methods of promoting health and preventing illness.
- a8. Describe the scientific methods of establishing disease causation of dermatological illnesses.
- a9. Mention the various diagnostic and laboratory techniques necessary to establish diagnosis of various dermatological illnesses.
- a10. List the various therapeutic methods /alternatives used for various dermatological illnesses .
- a11. List scientific development in the field of Dermatology.
- a12. Mention the mutual influence between professional practice and its impacts on the environment.
- a13. Mention the ethical and legal aspects of professional practice in the field of Dermatology.
- a14. Mention the principles and fundamentals of quality of professional practice in the field of Dermatology.
- a15. Mention the basics and ethics of scientific research.

b) Intellectual Skills:

By the end of the course, the student is expected to be able to:

- b1. Integrate data acquired through history taking to reach a provisional diagnosis for various Dermatological problems .
- b2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for Dermatological problems .
- b3. Link between knowledge for Professional problems' solving.
- b4. Conduct research study and/or write a scientific study on a research problem.
- b5. Assess risk in professional practices in the field of Dermatology .
- b6. Plan to improve performance in the field of Dermatology .
- b7. Identify Dermatological problems and find solutions.

b8. Analyze researches and issues related to Dermatology.

c) Professional and Practical Skills:

By the end of the course in department of Dermatology, the graduate is expected to be able to:

- c1.** Master of the basic and modern professional skills in the area of Dermatology.
- c2.** Perform physical examination of patients for dermatological system.
- c3.** Interpret the results of diagnostic procedures.
- c4.** Diagnose common illnesses.
- c5.** Recognize patients with life threatening dermatological conditions and initiate the proper management according to patient's needs.
- c6.** Write a treatment prescription.
- c7.** Write and evaluate clinical reports.
- c8.** Perform basic diagnostic and therapeutic techniques and measures in this practice (skin biopsy, intradermal injections using dermojet, electrocautery, etc)

d) General and Transferable Skills:

By the end of the course, students are expected to be able to:

- d1.** Communicate effectively by all types of effective communication.
- d2.** Use information technology to serve the development of professional practice
- d3.** Assess himself and identify personal learning needs.
- d4.** Use different sources to obtain information and knowledge.
- d5.** Develop rules and indications for assessing the performance of others.
- d6.** Work in a team, and team's leadership in various professional contexts.
- d7.** Manage time efficiently.
- d8.** Learn himself continuously.

Venereology & Andrology module:

a) Knowledge and Understanding:

By the end of the course, the graduate is expected to be able to:

- a1.** Mention the normal structure and function of the human reproductive system on the macro and micro levels .
- a2.** Understand the normal growth and development of the human reproductive system .
- a3.** Describe the abnormal structure, function, growth and development of human reproductive system and natural history of various venereal and andrological diseases.
- a4.** Describe the natural history of Venereal and Andrological problems.
- a5.** Enumerate the common diagnostic and laboratory techniques necessary to establish diagnosis of venereal and andrological illnesses.
- a6.** Mention the causation of disease and disease pathogenesis.
- a7.** Enumerate methods of promoting health and preventing illness.
- a8.** Describe the scientific methods of establishing disease causation of venereal and andrological illnesses.
- a9.** Describe the various diagnostic and laboratory techniques necessary to establish diagnosis of various venereal and andrological illnesses.
- a10.** List the various therapeutic methods /alternatives used for various venereal and andrological illnesses .
- a11.** Describe scientific development in the field of Venereology and Andrology.

- a12. Describe the mutual influence between professional practice and its impacts on the environment.
- a13. Mention the ethical and legal aspects of professional practice in the field of Venereology and Andrology.
- a14. Know the principles and fundamentals of quality of professional practice in the field of Venereology and Andrology.
- a15. Know the basics and ethics of scientific research.

b) Intellectual Skills:

By the end of the course, the graduate is expected to be able to:

- b1. Integrate data acquired through history taking to reach a provisional diagnosis for various Venereal and Andrological problems .
- b2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for Venereal and Andrological problems .
- b3. Link between knowledge for Professional problems' solving.
- b4. Conduct research study and/or write a scientific study on a research problem.
- b5. Assess risk in professional practices in the field of Venereology and Andrology .
- b6. Plan to improve performance in the field of Venereology and Andrology .
- b7. Identify Venereal and Andrological problems and find solutions.
- b8. Analyze researches and issues related to Venereology and Andrology.

c) Professional and Practical Skills:

By the end of the course, the graduate is expected to be able to:

- c1. Describe the basic and modern professional skills in the area of Venereology and Andrology.
- c2. Perform physical examination of patients for reproductive systems.
- c3. Interpret the results of diagnostic procedures.
- c4. Diagnose common illnesses.
- c5. Write a treatment prescription.
- c6. Write and evaluate semen reports.
- c7. Perform basic diagnostic and therapeutic techniques and measures in this practice (semen analysis, intracorporeal injections etc)

d) General and Transferable Skills:

By the end of the course, students are expected to be able to:

- d1. Communicate effectively by all types of effective communication.
- d2. Use information technology to serve the development of professional practice
- d3. Assess himself/herself and identify personal learning needs.
- d4. Use different sources to obtain information and knowledge.
- d5. Develop rules and indications for assessing the performance of others.
- d6. Work in a team, and team's leadership in various professional contexts.
- d7. Manage time efficiently.
- d8. Learn himself continuously.

3. Contents:
Dermatology module:

Topic	No. of hours	Lecture	Practical
Anatomy and functions of skin	5	2	3
Ethical & legal aspects and fundamentals of quality of professional practice in Dermatology	2	2	--
Basics and ethics of scientific research in dermatology	2	2	--
Diagnosis of skin disease	3	2	1
Pathological diagnosis of skin diseases	4	2	2
Molecular biology and basic genetics	4	2	2
Cutaneous pyogenic infections	6	4	2
Cutaneous viral infections	7	6	1
Mycology	7	5	2
Parasitic skin diseases	11	6	5
Mycobacterial Infections	12	6	6
Eczema (Dermatitis)	10	7	3
Papulo-Squamous diseases	9	7	2
Connective tissue disorders	15	6	9
Disorders of sebaceous glands	7	4	3
Disorders of sweat glands	8	2	6
Pigmentary disorders	12	6	6
Diseases of Hair and nails	11	6	5
Genodermatosis	7	3	4
Blistering dermatosis	21	8	13
Non-infectious granulomas	7	4	3
Photodermatosis	7	4	3
Cutaneous vascular diseases	7	3	4
Tumors of the skin	25	10	15
Cutaneous lymphomas	8	4	4
Mastocytosis and histiocytosis	9	5	4
Cutaneous drug reactions	9	3	6
Skin and systemic diseases	7	2	5
Neonatal dermatology	5	2	3
Pruritis and prurigo	5	3	2
Disorders of keratinization	10	3	7
Dermatological surgery	6	2	4
Topical and systemic therapy	6	2	4
Total	315	135	180
Credit	15	9	6

Venereology & Andrology module:

Topic	No. of hours	Lecture	Practical
Introduction	2	2	-
Ethical & legal aspects of professional practice	2	2	-
Principles of quality of	2	2	-

professional practice			
Anatomy of genital organs	9	2	7
Physiology of erection and ejaculation	15	8	7
Male sexual dysfunction	27	15	12
Female sexual dysfunction	18	8	10
Semen evaluation	23	7	16
Male infertility	28	18	10
Male urethral discharge	25	10	15
Vaginal infection	15	5	10
Syphilis	15	5	10
Genital ulcers	14	4	10
HIV	9	4	5
Genital dermatosis	12	4	8
Total	210	90	120
Credit	10	6	4

4. Teaching and Learning Methods:

- 4.1-lectures
- 4.2- Clinical / practical lessons
- 4.3- Assignment
- 4.4- Attending and participating in scientific conferences, workshops and thesis discussion to acquire the general and transferable skills needed.

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exams:	- Knowledge
-Short essay: 40%	- Knowledge
-structured questions: 25%	- Knowledge, intellectual skills
-MCQs: 20%	- Intellectual skills, General transferable skills,
-Commentary, Problem solving: 15%	- Practical skills, intellectual skills
5.3-Structured Oral Exams	- Knowledge

Assessment Schedule:

Assessment 1: Review	week: 12-16
Assessment 2: Review	week: 72-76
Assessment 3: log book	week: 80 (Formative exam)
Assessment 4: Final written Exam	week: 96-98
Assessment 5: Oral Exam	week: 96-98
Assessment 6: Clinical Exam	week: 96-98

Weighting of Assessments

Written Examination	40 %
Oral Examination	60%
Other types of assessment	0 %
Total	100%

Formative only assessment: simple research assignment, Log book, attendance and absenteeism

6. List of References:
Dermatology module:

- 6.1-** Essential Books (Text Books):
Andrews text book of dermatology, 13 th edition
- 6.2-** Recommended Books:
Rook`s text book of dermatology, 10 th Edition
Fitzpatrick`s Dermatology, Ninth Edition
Bolognia Dermatology, 4 th Edition
Lever`s text book of histopathology
- 6.3-** Periodicals and Web Sites:
Journal of American Academy of Dermatology
Clinics in dermatology
International journal of dermatology
British journal of dermatology
www.Sciencedirect.com
www.pubmed.com
www.Freebooks4doctors.com
www.medescape.com

Venereology & Andrology module:

- 6.1--** Essential Books (Text Books)
Text book of Andrology by Dr. Ashraf Fayed, 2009
- 6.2-** Recommended Books
Text book of Erectile dysfunction
- 6.3-** Periodicals and Web Sites:
Journal of urology
Fertility and Sterility
British journal of urology
Asian Journal of Andrology
www.Sciencedirect.com
www.pubmed.com
www.Freebooks4doctors.com
www.medescape.com

7. Facilities Required for Teaching and Learning:

- Adequate infrastructure including: teaching rooms, comfortable desks.
- Teaching tools including screen, slide Projector, computer and data show.
- Laboratory microscopes.
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Course Coordinator: Dr. Amr Abd El-Hamed Ali

Head of Department: Dr/ Hanan Abd-ElRady

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018