



إعتماد توصيف مقررات برنامج الدبلوم فى طب وجراحة العين

نقر نحن الموقعون على هذا أدناه أن توصيف وثيقة البرنامج التعليمى لدرجة الدبلوم فى طب وجراحة العين والمقررات الدراسية المكونة له قد تم وضعها بمعرفة الأقسام

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Peer Revision

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

Program Specification of Diploma Degree in Ophthalmology

Sohag University

Faculty of Medicine

A. Basic Information

1. Program title: Diploma degree in Ophthalmology
2. Program type: single
3. faculty: Faculty of Medicine
4. Department: Ophthalmology Department
5. Coordinator : Prof. Ahmed Mostafa Abdalla
6. Assistant coordinator: Assistant lecturer/ Mortada Ahmed
7. External evaluator : Prof. Ezz Eldeen Galal
8. Last date of program specifications approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013.

B. Professional Information

1. Program aims

The aim of this program is to provide the diploma graduate with the medical knowledge and skills essential for professional practice of specialty and necessary for providing further training and practice in the field of ophthalmology: through providing:

1. Scientific knowledge essential for the practice of ophthalmology according to the international standards.
2. Skills necessary for proper diagnosis and management of patients including diagnostic, problem solving and decision making skills in the field of ophthalmology.
3. Ethical principles related to the practice of ophthalmology.
4. Active participation in community needs management and problems solving
5. Maintenance of abilities necessary for continuous medical education.

2. Attributes of the post graduate:

1. Application of the specific knowledge gained during practice of Ophthalmology.
2. Identification of professional problems in this specialty and suggest solutions for them.
3. Mastering professional skills and usage of suitable technologies in practice of Ophthalmology.
4. Ability to efficiently communicate and lead team works throughout organized professional work.
5. Decision making at the lights of the available information.
6. Perfect utilization of available resources.

7. Awareness of his role in community development and maintain good environment.
8. Reflects the commitment to act with integrity, credibility and professional norms and accountability.
9. Recognize the need to develop himself and to engage in continuous learning.

3. Intended learning outcomes (ILOs)

a) Knowledge and understanding

By the end of the study of diploma program in ophthalmology the Graduate should be able to:

- a1. Mention the normal structure and function of the human eye on the macro and micro levels.
- a2. Enumerate the normal growth and development of the human eye.
- a3. List the abnormal structure, function, growth and development of human eye
- a4. Describe the optics of the eye.
- a5. Mention the natural history of ophthalmologic diseases.
- a6. Enumerate the causation of ophthalmologic diseases.
- a7. Enumerate Methods of eye health and preventing its illness.
- a8. List the clinical picture and differential diagnosis of ophthalmologic illnesses.
- a9. Enumerate concepts in the common diagnostic and laboratory techniques necessary to establish diagnosis of ophthalmologic illnesses.
- a10. Describe concepts in the various therapeutic methods/alternatives used for ophthalmologic diseases
- a11. Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of ophthalmology
- a12. Enumerate the principles and fundamentals of quality assurance of professional practice in the field of ophthalmology.
- a13. Enumerate the effect of professional practice on the environment and the methods of environmental development and maintenance

b) Intellectual skills

By the end of the study of diploma program in ophthalmology the graduates should be able to:

- b1. Identify and analyze of the information in the field of ophthalmology and rank them according to their priorities.
- b2. Solve problems in the area of ophthalmology
- b3. Analytical reading of researches and issues related to ophthalmology
- b4. Assess risk in professional practices in the field of ophthalmology
- b5. Make professional decisions making in the light of the available data

c) Professional and practical skills

By the end of the study of diploma program in ophthalmology the graduates should be capable of:

- c1. The application of professional skills in the field of ophthalmology
- c2. Write medical reports.
- c3. Use appropriate technology in the field of ophthalmology.

d) General and transferable skills

By the end of the study of diploma program in ophthalmology the graduates should be capable of:

- d1. Communicate effectively by all types of effective communication.
- d2. Use of information technology to serve the development of professional practice.

- d3. Assess himself and identify personal learning needs.
- d4. Use of different sources to obtain information and knowledge.
- d5. Work in a team and manage time.
- d6. Lead team in familiar professional contexts.
- d7. 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 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: 3 semesters (1.5) years

5.b- Program structure :

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

Subject	hours /week		
	Lectures	Practical/surgical	Clinical
First Part:			
Human Anatomy & Embryology of the eye	1	1	
Medical Physiology of the eye	2	---	---
Optics	1	1	
Pathology	1	2	
Biostatistics			
Second Part:			
Medical ophthalmology	3	----	5
Surgical ophthalmology	2	4	----

code	Item	No	%	
b.i	Total credit hours	Compulsory	43	100
		Elective	0	0
		Optional	0	0
b.iii	credit hours of basic sciences courses	7	12.3	
b.iv	credit hours of courses of social sciences and humanities	0	0	
b.v	credit hours of specialized courses:	28	65.1	
b.vi	credit hours of other course	8	18.6	
b.viii	Program Levels (in credit-hours system): Level 1: 1 st part	15	34.9	

Level 2: 2 nd Part	28	65.1
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6. Program courses

c.1- Level (1) 1st part (semester 1)

a. Compulsory

Course Title	Total No. of hours	No. of hours/weeks			Program ILOs covered (By No.)
		Lect	Lab.	Exer	
Human Anatomy & Embryology of the eye	2	1	1		a1,a2,c1,d4,d7
Medical Physiology of the eye	2	2	---		a1,b2,c1,d4,d7
Optics of the eye	2	2	---		a4,a6,a9,a10,b1,c1,c3,d2,d4,d7
Pathology of the eye	2	1	1		a3,a5,a6,b1,b3,c1,d4,d7
Biostatistics & Computer	2	1	2		a13-b3-b5-c3-d1-d2-d3-d4-d5
2 nd					
Medical ophthalmology	8	3		5	a5,a6,a7,a8,a9,a10,a11,a12,a13, b1,b2,b3,b4,b5,c1,c2,c3,d1,d2,d3,d4,d5,d6,d7
Surgical ophthalmology	6	2		4	a5,a6,a7,a8,a9,a10,a11,a12,a13, b1,b2,b3,b4,b5,c1,c2,c3,d1,d2,d3,d4,d5,d6,d7

7. Program admission requirements :

I. General requirements:

A. Candidates should have either:

1. MBChB Degree from any Egyptian Faculties of Medicine /or
2. Equivalent Degree from Medical Schools abroad approved by the Ministry of Higher Education.

B. Candidate should complete the house office training year.

C. Regulatory rules of postgraduate studies of Sohag Faculty of Medicine

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8. Regulations for progression and program completion

Duration of program is 3 semesters (1.5 years), starting from registration till acceptance of the thesis; divided to:

First Part: (≥6 months=1 semester):

- Program-related basic science, and optics Courses.
- 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 April — 2nd in October.
- For the student to pass the first part exam, a score of at least 60% in each curriculum is needed, 40 % in written exams.
- Those who fail in one curriculum need to re-exam it only.

Second Part: (≥12 months=2 semesters):

- Program related specialized science ophthalmology Courses after passing at least:

- Two sets of exams: 1st in April— 2nd in October.
- For the student to pass the 2nd part exam, a score of at least 60% is needed with at least 60% of written exam 50% oral and clinical exam.

9. Methods of student assessment

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

Assessment schedule:

Part I:

- Human Anatomy & Embryology of the eye: Written Exam (2 hours) + Structured oral Exam
- Optics of the eye: Written Exam (2 hours) + structured oral Exam
- Medical Physiology of the eye: Written Exam (2 hour) + Structured oral Exam
- Pathology of the eye: Written Exam (2 hour) + structured oral Exam.
- Biostatistics: Written Exam (2 hours) + Structured oral Exam

Part II:

- Medical ophthalmology and Surgical ophthalmology: Two Written Exams (3 hours for each) + OSCE + one written exam containing commentary

10. Evaluation of program intended learning outcomes

Evaluator	Tool	Sample
1- Senior students	questionnaire	2
2-Alumni	questionnaire	5
3-Stakeholders	questionnaire	4
4-External evaluator(s)(External examiner(s))	report	1

Course Specifications of Human Anatomy & Embryology in Diploma degree in Ophthalmology

Sohag University

Faculty OF Medicine

1. Program on which the course is given: Diploma degree in Ophthalmology
2. Major or minor element of program: minor
3. Department offering the program: Ophthalmology department
4. Department offering the course: Human Anatomy & Embryology and Embryology
5. Academic year / Level: 1st part.
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

A. Basic Information

Title: Course Specifications of Human Anatomy & Embryology & Embryology, in Diploma degree in Ophthalmology

Code: ANA0522-100

Subject	hours /week		
	Lectures	Clinical	Credit
Anatomy	30	30	3

B. Professional Information

1. Overall Aims of Course

By the end of the course the student should be able to have the professional knowledge about the Human Anatomy & Embryology of the orbit and eyeball.

2. Intended Learning Outcomes of Course (ILOs):

a) Knowledge and understanding

By the end of the study of diploma program in ophthalmology the Graduate should be able to:

- a1. Mention the normal structure of the human eye on the macro and micro levels
- a2. Enumerate the normal growth and development of the human eye.

b) Intellectual skills

By the end of the study of diploma program in ophthalmology the Graduate

- b1. Identify and analyze of the information in the field of Human Anatomy & Embryology to serve the practice in the field of ophthalmology
- b2. Link between knowledge for Professional problems' solving

c) Professional and practical skills

By the end of the study of diploma program in ophthalmology the Graduate should be able to:

- c1. The application of professional skills in the field of Human Anatomy & Embryology to serve the practice in the field of ophthalmology

d) General and transferable skills

By the end of the study of diploma program in ophthalmology the Graduate should be able to:

- d1. Use of different sources to obtain information and knowledge
- d2. Learn himself continuously

3. Contents

Topic	No. of hours	Lecture	Practical
Introduction	4	2	2
Human Anatomy & Embryology of the orbit	4	2	2
Human Anatomy & Embryology and embryology of the eyeball	8	4	4
Blood supply of the eye	6	3	3
Human Anatomy & Embryology and embryology of the lacrimal system	4	2	2
Human Anatomy & Embryology and embryology of the conjunctiva	2	1	1
Revision	2	1	1
Total	30	15	15
Credit	2	0.5	0.5

4. Teaching and Learning Methods

- 4.1- Lectures.
- 4.2- Practical lessons.
- 4.3- Assignments for the students to empower and assess the general and transferable skills

5. Student Assessment Methods

- 5.1- Assignments for the students to empower and assess the general and transferable skills
- 5.2- periodic written exam to assess Knowledge, understanding and intellectual skills.
- 5.3- periodic practical+ written examination to assess practical skills as well as Knowledge.
- 5.4- Final written exam to assess Knowledge, understanding and intellectual skills.
- 5.5- Final oral exam to assess understanding and intellectual skills.
- 5.6 -Final practical exam to assess practical skills.

Assessment Schedule

Assessment 1 ... Periodic 1...	Week: 10-12.
Assessment 2 ... Assignment....	Week:15-16.
Assessment 2 ... Final practical exam...	Week: 22.
Assessment 3 Final written exam....	Week:24.
Assessment 4.....Final oral exam.....	Week:24

Weighting of Assessments

Periodic Examinations	10%
Assignment	5%
Final-term Examination	50%
Oral Examination	25%
Practical Examination	10 %
Total	100%

6. List of References

6.1 Course notes:

Lecture notes prepared by the staff members of the department

6.2- Essential Books (Text Books)

Gray's Anatomy

Wolfs' Human Anatomy & Embryology of the eye

6.3- Recommended Books

A colored Atlas of Human Human Anatomy & Embryology and Embryology.

6.4 Periodicals:

British journal of anatomy

Web Sites: [www. Innerbody.com](http://www.Innerbody.com)

7. Facilities Required for Teaching and Learning

1. Adequate infrastructure including:
 - a. Teaching classes, teaching halls, teaching laboratory, comfortable discs, bathrooms, good illumination, good aeration, and good safety tools
2. Teaching tools including: screens ,computers, data show, video players digital, white boards, colour and laser printers

Course Coordinator: Dr. Salwa M. Ewas

Head of Department: Dr. Ahmed M. Eldsoky.

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

Course Specifications of Optics in Diploma degree in Ophthalmology
Sohag University Faculty OF Medicine

1. Program on which the course is given: Diploma degree in Ophthalmology
2. Major or minor element of program: minor
3. Department offering the program: Ophthalmology department
4. Department offering the course: Ophthalmology
5. Academic year / Level: 1st part.
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

A. Basic Information

Title: Course Specifications of Optics, in Diploma degree in Ophthalmology

Code: OPH0522-100

Subject	hours /week		
	Lectures	Practical/ surgical	Credit
Optics	30	30	3

B. Professional Information

1. Overall Aims of Course

By the end of the course the student should be able to have the professional knowledge about the optics and refraction of the eye.

2. Intended Learning Outcomes of Course (ILOs):

a) Knowledge and understanding

By the end of the study of diploma program in ophthalmology the Graduate should be able to:

- a1. Describe the optics of the eye
- a2. Enumerate the causation of refractive diseases.
- a3. Enumerate concepts in the common diagnostic and methods of examination necessary to establish diagnosis of ophthalmologic illnesses and refractive diseases
- a4. Describe concepts in the various therapeutic methods of refractive diseases

b) Intellectual skills

By the end of the study of diploma program in ophthalmology the Graduate should be able to:

- b1. Identify and analyze of the information in the optics to help in the clinical practice of ophthalmology
- b2. Link between knowledge for Professional problems' solving

c) Professional and practical skills

By the end of the study of diploma program in ophthalmology the Graduate should be able to:

- c1. The application of professional skills in the field of optics and refraction
- c2. Use appropriate technology in the field of ophthalmology.

d) General and transferable skills

By the end of the study of diploma program in ophthalmology the Graduate should be able to:

- d1. Use of information technology to serve the development of professional practice.
- d2. Use of different sources to obtain information and knowledge.

3. Contents

Topic	No. of hours	Lecture	Practical
Properties of light	1	1	
Reflection of light	1	1	
Refraction of light	1	1	
Prisms	1	1	
Refraction by lenses	1	1	
Refraction of the eye	1	1	
Aberrations	2	2	
Ametropia	1	1	
Accommodation	2	2	
Binocular muscular coordination	2	2	
Retinoscopy	2	2	
Ophthalmoscopy	2	2	
Verification of refraction	2	2	
Spectacles	1	1	
Contact lenses	1	1	
Intraocular lenses	2	2	
Low vision aids	2	2	
Ophthalmoptic instruments	5	5	
Total	30	30	
Credit	2	2	

4. Teaching and Learning Methods

- 4.1- Lectures.
- 4.2- Practical lessons.
- 4.3- Assignments for the students to empower and assess the general and transferable skills

5. Student Assessment Methods

- 5.1- Assignments for the students to empower and assess the general and transferable skills
- 5.2- periodic written exam to assess Knowledge, understanding and intellectual skills.
- 5.3- periodic practical+ written examination to assess practical skills as well as Knowledge.
- 5.4- Final written exam to assess Knowledge, understanding and intellectual skills.
- 5.5- Final oral exam to assess understanding and intellectual skills.
- 5.6 -Final practical exam to assess practical skills.

Assessment Schedule

Assessment 1 ... Periodic 1...	Week: 10-12.
Assessment 2 ... Assignment....	Week:15-16.
Assessment 2 ... Final practical exam...	Week: 22.
Assessment 3 Final written exam....	Week:24.
Assessment 4.....Final oral exam.....	Week:24

Weighting of Assessments

Periodic Examinations	10%
Assignment	5%
Final-term Examination	50%
Oral Examination	25%
Practical Examination	10 %
Total	100%

6. List of References

6.1 Course notes:

Lecture notes prepared by the staff members of the department

6.2- Essential Books (Text Books)

Alrefaay clinical optics of the eye

6.3- Recommended Books

Clinical optics 3rd edition Andrew R. Elkington

6.4: Periodicals, and Web Sites:

American journal of optics and refraction

7.

8. Facilities Required for Teaching and Learning

1. Adequate infrastructure including:
 - a. Teaching classes, teaching halls, teaching laboratory, comfortable discs, bathrooms, good illumination, good aeration, and good safety tools
2. Teaching tools including: screens ,computers, data show, video players digital, white boards, colour and laser printers

Course Coordinator: Prof. Ahmed Mostafa Abdalla

Head of Department: Prof. Gamal Abd El Lateef

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

Course Specifications of Medical Physiology in Diploma degree in Ophthalmology

Sohag University

Faculty OF Medicine

1. Program on which the course is given: Diploma degree in Ophthalmology
2. Major or minor element of program: minor
3. Department offering the program: Ophthalmology department
4. Department offering the course: Medical Physiology
5. Academic year / Level: 1st part.
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

A. Basic Information

Title: Course Specifications of Medical Physiology in Diploma degree in Ophthalmology

Code: PHY0522-100

Subject	hours /week		
	Lectures	Clinical	Credit
Medical Physiology	30	30	3

B. Professional Information

1. Overall Aims of Course

To prepare ophthalmology physician oriented with the Medical Physiology of the eye & vision. In addition, graduates should have enough knowledge about the changes of aqueous humor & intraocular pressure. They should have adequate information about binocular vision and its advantages in addition to the visual pathway & field of vision.

2. Intended Learning Outcomes of Course (ILOs):

a) Knowledge and understanding

By the end of the study of diploma program in ophthalmology the Graduate should be able to:

- a1. Mention the function and mechanisms of protection to the eye
- a2. Describe the changes of aqueous humor & intraocular pressure.
- a3. Enumerate the Medical Physiology of binocular vision and its advantages in addition to the visual pathway & field of vision.

b) Intellectual skills

By the end of the study of diploma program in ophthalmology the Graduate should be able to:

- b1. Identify and analyze of the information in the Medical Physiology of the eye to serve in the clinical practice of ophthalmology
- b2. Link between knowledge for Professional problems' solving

c) Professional and practical skills

By the end of the study of diploma program in ophthalmology the Graduate should be able to:

c1. Interpret the results of diagnostic procedures on physiological bases

d) General and transferable skills

By the end of the study of diploma program in ophthalmology the Graduate should be able to:

- d1. Use of different sources to obtain information and knowledge
- d2. Learn himself continuously

3. Contents

Topic	No. of hours	Lecture	practical
aqueous humor & intraocular pressure	2	2	
protective mechanisms of the eye	2	2	
-accommodation of the eye	2	2	
Normal & abnormal refraction of the eye	3	3	
-pupillary reflexes	2	2	
photoreceptors & mechanism of its excitation	3	3	
light & dark adaptation.	2	2	
color vision	3	3	
visual pathway & field of vision	3	3	
visual acuity & factors affecting it.	2	2	
- binocular vision and its advantages & requirements	3	3	
eye movement & its higher control.	3	3	
Total	30	30	

4. Teaching and Learning Methods

- 4.1- Lectures.
- 4.2- Practical lessons.
- 4.3- Assignments for the students to empower and assess the general and transferable skills

5. Student Assessment Methods

- 5.1- Assignments for the students to empower and assess the general and transferable skills
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- 5.5- Final oral exam to assess understanding and intellectual skills.
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Weighting of Assessments

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Assignment	5%
Final-term Examination	50%
Oral Examination	25%
Practical Examination	10 %
Total	100%

6. List of References

6.1 Course notes:

Lecture notes prepared by the staff members of the department

6.2- Essential Books (Text Books) Gyton textbook of Medical Physiology

6.3- Recommended Books

Retchard textbook of Medical Physiology

Ganong textbook of Medical Physiology

6.4: Periodicals, and Web Sites:

American journal of Medical Physiology

7. Facilities Required for Teaching and Learning

1. Adequate infrastructure including:
 - a. Teaching classes, teaching halls, teaching laboratory, comfortable discs, bathrooms, good illumination, good aeration, and good safety tools
2. Teaching tools including: screens ,computers, data show, video players digital, white boards, color and laser printers

Course Coordinator: Dr. Hoda Mostafa

Head of Department: : Dr/ Ahmed Mostafa

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

Course Specifications of Pathology in Diploma degree in Ophthalmology

Sohag University

Faculty OF Medicine

1. Program on which the course is given: Diploma degree in Ophthalmology
2. Major or minor element of program: minor
3. Department offering the program: Ophthalmology department
4. Department offering the course: Pathology
5. Academic year / Level: 1st part.
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

A. Basic Information

Title: Course Specifications of Pathology in Diploma degree in Ophthalmology

Code: PAT0522-100

Subject	hours /week		
	Lectures	Clinical	Credit
Pathology	30	30	3

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 eye diseases.

2. Intended Learning Outcomes of Course (ILOs):

a) Knowledge and Understanding:

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

- a1. List the abnormal structure, function, growth and development of human eye
- a2. Enumerate the fate and complications and prognosis of different diseases of the eye
- a3. Describe the causation of ophthalmologic diseases.

b) Intellectual Skills:

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

- b1. Identify and analyze of the information in the field of ophthalmology based on pathological bases
- b2. Link between knowledge for Professional problems' solving.

c) Professional and Practical Skills:

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

- c1. Identify the macroscopic and microscopic criteria of the altered structure (pathology) of the eye that are seen in various diseases

d) General and Transferable Skills:

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

- d1. Use of different sources to obtain information and knowledge
- d2. Learn himself continuously

3. Contents

Topic	No. of hours	Lecture	Tutorial/ Practical
I- <u>General Pathology: Inflammation, repair, cell response to injury, hypersensitivity reactions, infectious diseases, cellular growth disorders & tumors.</u>	8	4	4
II- Specific Pathology	52	26	26
1- <u>Pathology of Eyelid diseases</u>	2	1	1
2- <u>Pathology of Conjunctival diseases</u>	2	1	1
3- <u>Pathology of Corneal diseases</u>	4	2	2
4- <u>Pathology of Scleral diseases:</u>	4	2	2
5- <u>Pathology of Uveal Tract diseases</u>	4	2	2
6- <u>Pathology of Lens diseases</u>	4	2	2
7- <u>Pathology of Glaucoma</u>	4	2	2
8- <u>Pathology of Vitreous diseases</u>	4	2	2
9- <u>Pathology of Retinal (Neuro-sensory retinal) diseases</u>	4	2	2
10- <u>Pathology of Optic nerve diseases</u>	4	2	2
11- <u>Pathology of Orbit diseases</u>	4	2	2
12- <u>Pathology of Lacrimal Apparatus diseases</u>	4	2	2
13- <u>Pathology of Intraocular Tumors</u>	4	2	2
14- <u>Ocular Melanotic Tumors</u>	4	2	2
Total	60	30	30
Credit	3	2	1

4. Teaching and Learning Methods

- 4.1- Lectures.
- 4.2- Practical lessons.
- 4.3- Assignments for the students to empower and assess the general and transferable skills

5. Student Assessment Methods

- 5.1- Assignments for the students to empower and assess the general and transferable skills
- 5.2- periodic written exam to assess Knowledge, understanding and intellectual skills.
- 5.3- periodic practical+ written examination to assess practical skills as well as Knowledge.
- 5.4- Final written exam to assess Knowledge, understanding and intellectual skills.
- 5.5- Final oral exam to assess understanding and intellectual skills.
- 5.6 -Final practical exam to assess practical skills.

Assessment Schedule

Assessment 1... Periodic 1...	Week: 10-12.
Assessment 2 ... Assignment....	Week:15-16.
Assessment 2 ...Final practical exam...	Week: 22.
Assessment 3.... Final written exam....	Week:24.
Assessment 4.....Final oral exam.....	Week:24

Weighting of Assessments

Periodic Examinations	10%
Assignment	5%
Final-term Examination	50%
Oral Examination	25%
Practical Examination	10 %
Total	100%

6. List of References

6.1 Course notes:

Lecture notes prepared by the staff members of the department

6.2- Essential Books (Text Books):

- Yanoff Ocular Pathology.

6.3- Recommended Books (Text Books):

- Muir's text book of pathology.
- Robbins pathologic basis of diseases.

6.4- Periodicals, American journal of pathology

Pathology

Human pathology

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

7. Facilities Required for Teaching and Learning

1. Adequate infrastructure including:
 - a. Teaching classes, teaching halls, teaching laboratory, comfortable discs, bathrooms, good illumination, good aeration, and good safety tools
2. Teaching tools including: screens ,computers, data show, video players digital, white boards, colour and laser printers

Course Coordinator: : Dr. Fatma El Zahraa

Head of Department: Dr. Eman Muhammad Salah El Deen

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

Course Specification of Biostatistics in Diploma Degree of Ophthalmology

Sohag University

Faculty of Medicine

1. Program on which the course is given: Diploma Degree of Ophthalmology
2. Major or minor element of program: minor
3. Department offering the program: Ophthalmology
4. Department offering the course: Community Medicine and public Health department.
5. Academic year/ Level: first part
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

A. Basic Information

Program title Course Specification of medical Biostatistics in Diploma degree in Ophthalmology

Code: COM 0510-100

Course	Lectures	Practical:	Total:	Total credit hours
Medical Biostatistics	15 hrs	30	45	2 hrs

B. Professional Information

1. Overall Aims of Course

To develop a graduate who will apply the knowledge and skills learned, and is able to utilize the basics of medical statistics in his career and research

2. Intended Learning Outcomes of Course (ILOs):

According to the intended goals of the faculty

a) Knowledge and understanding:

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

- a1. Define the 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 Define terms of research methodology

b) Intellectual Skills

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

- b1. Identify and collect data variables impacting health and disease
- b2. Assess risk in professional practices in the field of Chest Diseases and Tuberculosis.
- b3. Analyze research and issues related to the Chest Diseases and Tuberculosis

c) Professional and Practical Skills:

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

- c1. Perform community diagnosis
- c2. Conduct Social & Health Surveys
- c3. Diagnose an epidemic

d) General and Transferable Skills

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

- d1. Use different sources to obtain information and knowledge.
- d2. Work coherently and successfully as a part of a team and team's leadership.
- d3. Use different sources to obtain information and knowledge and collect data

3. Course Contents:

Topic	No. of hours	Lecture	Practical
Methodology & statistics Terminology and rationale Data collection Types of Data Tabulation of data Graphical presentation of data Measures of central tendency Measures of dispersion Normal distribution curves International classification of diseases International death certificate Study design: Cross sectional study and the prevalence rate Cohort study, incidence rate, relative & attributable risk Case-control study, Odd's ratio Sampling Investigation of an epidemic, the attack rates		15	30
Total	45	15	30
Credit	2	1	1

4. Teaching and Learning Methods:

- 4.1. Lectures.
- 4.2 practical sessions
- 4.3- Computer search assignments

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 Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4 Computer search assignment	-General transferable skills, intellectual skills

Assessment Schedule

Assessment 1. Written examination	24week
Assessment 2. Structured Oral Exam	24week
Assessment 3. Attendance and absenteeism	

Weighting of Assessments

Final-term Written Examination	50 %
Structured Oral Examination	50 %
Total	100%

Formative only assessments: attendance and absenteeism and Computer search assignments

6. List of References

6.1- Course Notes

Lecture notes prepared by staff members in the department

Epidemiology in medical practice, 5th edition. Churchill Livingstone. New York, London and Tokyo, 2003.

6.4- 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

1-Adequate infrastructure: including teaching places (teaching class), comfortable desks, good source of aeration, bathrooms, good illumination and safety and security

2-Teaching tools: including screens, computers data shows, projectors, flip charts, white board, video player, digital video camera, scanner, copier, color and laser printers

Course Coordinator: Dr. Ahmed Fathy Hammed

Head of Department: Prof. Eman Abd El-Baset Mohammed

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

Course Specification for Medical & Surgical Ophthalmology in Diploma degree in ophthalmology

Sohag University

Faculty OF Medicine

1. Program on which the course is given: Diploma degree in Ophthalmology
2. Major or minor element of program: Major
3. Department offering the program: Ophthalmology department
4. Department offering the course: Ophthalmology department
5. Academic year / Level: second part.
6. Date of specification approval: Faculty council No. "250", decree No. "1378"
dated 28/12/2013

1. Basic Information

Title: Course Specifications of Medical & surgical ophthalmology in diploma degree in Ophthalmology

Code:OPH0522-100

Credit Hours:

Lecture	Practical	Total	Credit
240	270	510	25

2. 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 medical & surgical aspect of common eye diseases.

- 1- Deal with common ophthalmological conditions on the basis of adequate history taking, physical examination interpretation of relevant supportive investigations and management.
- 2- Deal with ocular emergencies.
- 3- Perceive and integrate progress in ophthalmologic 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.Enumerate the natural history of ophthalmologic diseases.
- a2.Enumerate the causation of ophthalmologic diseases.
- a3.Enumerate Methods of eye health and preventing its illness.
- a4.List the clinical picture and differential diagnosis of ophthalmologic illnesses.
- a5.Enumerate concepts in the common diagnostic and laboratory techniques necessary to establish diagnosis of ophthalmologic illnesses.
- a6.Describe concepts in the various therapeutic methods/alternatives used for ophthalmologic diseases
- a7.Mention The principles and fundamentals of ethics and legal aspects of professional practice in the field of ophthalmology

- a8.Enumerate The principles and fundamentals of quality assurance of professional practice in the field of ophthalmology
- a9.Enumerate The effect of professional practice on the environment and the methods of environmental development and maintenance

b) Intellectual Skills

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

- b1. Identify and analyze of the information in the field of ophthalmology and rank them according to their priorities.
- b2. Solve problems in the area of ophthalmology
- b3. Analytical reading of researches and issues related to ophthalmology
- b4. Assess risk in professional practices in the field of ophthalmology
- b5. Make professional decisions making in the light of the available data

c) Professional and Practical Skills

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

- c1.The application of professional skills in the field of ophthalmology
- c2.Write medical reports.
- c3.Use appropriate technology in the field of ophthalmology.

d) General and Transferable Skills

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

- d1. Communicate effectively by all types of effective communication.
- d2. Use of information technology to serve the development of professional practice.
- d3. Assess himself and identify personal learning needs.
- d4. Use of different sources to obtain information and knowledge.
- d5. Develop rules and indications for assessing the performance of others.
- d6. Lead team in familiar professional contexts.
- d7. Learn himself continuously

3. Contents

Topics	Total no of hours	Lectures	clinical
<u>Methods of eye examination</u>			
Direct illumination	8	3	5
Slit lamp biomicroscopy	19	8	11
Gonioscopy	8	3	5
-Posterior segment examination:			
Exam by direct ophthalmoscope	13	5	8
Exam by indirect ophthalmoscope	13	5	8
Pupil examination	8	3	5
Ocular motility examination	13	5	8
Visual field examination	13	5	8
Tonometry	13	5	8
Lacrimal system examination	8	3	5
Orbit examination	8	3	5
<u>Exam & correction of errors of refraction</u>			
Retinoscopy	32	12	20
Ophthalmoscopy	8	3	5
Verification of refraction	13	5	8
Spectacles	8	3	5
Contact lenses	13	5	8
Intraocular lenses	13	5	8
Refractive surgery	13	5	8
Low vision aids	8	3	5
Ophthalmoptic instruments	13	5	8
<u>Medical ophthalmology</u>			8
Introduction, Ocular Symptoms and Signs	10	2	
Eye lids	10	2	8
Cornea	10	2	8
Conjunctiva	10	2	8
Lacrimal apparatus	10	2	8
Glaucoma	10	2	8
Vitreous	10	2	8
Uveitis	10	2	8
Retina	21	6	15
Optic nerve	10	2	8
Strabismus	10	2	8
Orbit	10	2	8
Ocular trauma	10	2	8

Systemic diseases and the eye	10	2	8
<u>Surgical ophthalmology</u>	10	2	8
General principles of ocular surgery			
Sterilization and disinfection	10	2	8
Ocular anesthesia	10	2	8
Surgical diseases of eye lids	10	2	8
Surgical diseases of the cornea	10	2	8
Surgical diseases of the conjunctiva	10	2	8
Surgical disease of the lacrimal system	10	2	8
Surgical diseases of the lens, cataract	13	3	8
Surgical management of glaucoma	17	5	12
Surgical diseases of the Retina	17	5	12
Refractive surgery: Principles, types, applications	11	3	8
Strabismus	11	3	8
Surgical diseases of the Orbit	11	3	8
Surgical management of ocular trauma	11	3	8
<u>Clinical & practical</u>			
Clinical rounds	21	15	16
Case presentation	21	15	16
Outpatient clinic attendance	21	15	16
Panel discussion	21	15	16
Operations practice on models	21	15	16
Total	510	240	270
Credit	25	16	9

4. Learning Methods

- 4.1- Illustrated lectures
- 4.2- Clinical rounds on patients.
- 4.3- Attendance in outpatients' clinic.
- 4.4- Case studies in department conference.
- 4.5 Attendance workshops, conferences and thesis discussion

5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.2-OSCE	-Practical skills, intellectual skills General transferable skills
5.3-OSPE	-Practical skills, intellectual skills

Assessment Schedule

Assessment 3.... Final two written exams....	Week: 44
Assessment 4....Final practical (surgical) exam.....	Week: 48
Assessment 5....Final OSCE	Week: 48

Weighting of Assessments

Final-writtren Examination	50%
OSPE	20%
OSCE	30%
Total	100%

Formative only assessment: simple research Assignments, log book, attendance and absenteeism

6. List of References

6.1- Course Notes

Lecture notes prepared by staff members in the department

6.2- Essential Books (Text Books)

- kanski: text book of ophthalmology
- Yanoff text book of ophthalmology
- Spaeths' ocular surgery
- Cataract Surgery of Jaffey
- Becker and Shaefer Management of Glaucoma
- Alrefaay clinical optics of the eye

6.3- Recommended Books:

- Duane's clinical ophthalmology
- Comprehensive ophthalmology
- Master techniques of cataract and refractive surgery
- Clinical optics 3rd edition Andrew R. Elkington

6.4- periodicals and websites:

- British Journal of ophthalmology
- American journal of ophthalmology

7. Facilities Required for Teaching and Learning

- Adequate infrastructure including:
Teaching classes, teaching halls, teaching laboratory, comfortable discs, bathrooms, good illumination, good aeration and good safety tools
- Teaching tools including: screens ,computers, data show, video players digital, white boards, colour and laser printers

Course Coordinator: Prof. Ahmed Mostafa Abdalla

Head of Department: Prof. Gamal Abd El – Lateef Radwan

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