



## Ophthalmology Course Description

the ophthalmology course is one of the basic requirements of human medicine program. It is taught in the fourth year. Through the course the students learn the ability to properly deal with the patient's eye, diagnose and manage common ophthalmic diseases, the ability of first aid management of ocular emergencies, provide ability of preventive measures to common ophthalmic diseases and ability of self-learning, interpretation of diseases of common ophthalmological problem. Number of contact hours are 82hr.

### Learning outcomes

#### Knowledge and Understanding

1. Describe the structure and the function of each part of the eye.
2. List kinds and describe steps of clinical examination of the eye.
3. Describe clinical features, differential diagnosis, and complications of common eye diseases.
4. Explain the principles of management of the common eye diseases.
5. Identify of the main ageing eye changes.
6. Describe basic principles of primary health services regarding prevention, screening, early detection, and control of common ocular problems.

#### Intellectual skills

1. Application of clinical skills including: History taking, physical examination, diagnosis, and differential diagnosis of common eye diseases.
2. Relate ocular manifestations to their specific systemic diseases.
3. Competence to investigate a patient with common ocular diseases, emergency and vision threatening conditions.
4. Use problem solving skills in a variety of ophthalmic diseases.
5. Competence in health promotion and ophthalmological diseases

#### Practical and Professional skills

1. Measure visual acuity.
2. Test visual field.
3. Test ocular motility.
4. Perform examination of adnexa of the eye.
5. Examine pupillary light reflex.
6. Examine anterior segment of the eye.
7. Competence in skills of communication with patients, patients relative and other members in the health care team.
8. Practice basics of health and patient's safety in all procedures during practical and clinical years.
9. Simulate first aid measure for ocular emergencies and trauma.

#### General & Transferable skills

1. Understanding the basics and clinical aspects of ophthalmology.
2. Present medical information in written, oral, and electronic forms.
3. Manage time effectively.
4. Work cooperatively and effectively with the colleagues.
5. Respect the seniority of all members of healthcare professionals.
6. Aptitude for personal development and appropriate transferable skills during the course.
7. Use of critical thinking, problem solving, clinical reasoning and judgment regarding ophthalmological problems.
8. Presenting an ophthalmic topic confidently in front of teachers and classmates.



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1. Patient's rights and involve them or their caretakers in management decisions.
  2. Clearly communicate with patient regardless of their social, cultural and ethnics' background.
  3. Dealing with situations including breaking bad news

### **Teaching and learning methods.**

1. Lectures.
2. Bed side teaching.
3. Tutorials.

### **Methods of evaluation**

1. MCQs, and short essay
2. Oral exam
3. Slide examination

### **References**

- General Ophthalmology Daniel G. Vaughan, Taylor Asbury, Paul Riordan\_Eva
- Clinical Ophthalmology (Jack J.Kanski).
- Course notes by department's staff.
- Ophthalmology A Pocket textbook Atlas (G. Lang).

### **Web Sites:**

- <http://www.emedicine.com/oph/contents.htm>
- [http://www.cis.rit.edu/people/faculty/montag/vandplite/pages/chap\\_8/ch8p3.html](http://www.cis.rit.edu/people/faculty/montag/vandplite/pages/chap_8/ch8p3.html)
- <http://cim.ucdavis.edu/eyes/eyesim.htm>
- <http://www.djo.harvard.edu/index.php>