

7th Semester Syllabus

5.3 Cornea - 5 lectures

- 5.3.1 Corneal ulcers: Bacterial, fungal, viral
- 5.3.2 Hypopyon ulcer
- 5.3.3 Complication of corneal ulcer
- 5.3.4 Management of complication of corneal ulcer
- 5.3.5 Fascicular ulcer
- 5.3.6 Interstitial keratitis
- 5.3.7 Herpes zoster ophthalmicus
- 5.3.8 Keratoconus
- 5.3.9 Corneal opacities
- 5.3.10 Keratomalacia (Vit A deficiency)
- 5.3.11 Pannus
- 5.3.12 Keratoplasty-eye donation
- 5.3.13 Eye banking

5.5 Uvea - 3 lectures

- 5.5.1 Classification of uveitis
- 5.5.2 Gen. Etiology, investigation and principle management of uveitis
- 5.5.3 Acute & chronic iridocyclitis
- 5.5.4 Panophthalmitis
- 5.5.5 Endophthalmitis
- 5.5.6 Choroiditis
- 5.5.7 Chorioretinitis
 - DID of red Eye

5.6 Lens – 5 lectures

- 5.6.1 Cataract- Aetiological classification
- 5.6.2 Senile mature cataract
- 5.6.3 Management of cataract 1) Medical 2) Surgical
- 5.6.4 Anaesthesia
- 5.6.5 Treatment of aphakia
- 5.6.6 IOL implant (Phacoemulsification)
- 5.6.7 Recent advances in cataract management

5.7 Glaucoma – 4 lectures

- 5.7.1 Aqueous Humor Dynamics
- 5.7.2 Factors Controlling Normal IOP
- 5.7.3 Tonometry, Automated perimetry
- 5.7.4 Provocative tests
- 5.7.5 Classification of Glaucoma
- 5.7.6 Congenital Glaucoma
- 5.7.7 Angle Closure Glaucoma

- 5.7.8 Open Angle Glaucoma
- 5.7.9 Secondary Glaucoma
- 5.7.10 Recent advances in treatment of glaucoma

5.8 Vitreous – 1 lecture

- 5.8.1 Vitreous Haemorrhage & Opacities
- 5.8.2 PVD
- 5.8.3 Proliferative vitreo – retinopathy

5.10 Retina – 3 lectures

- 5.10.1 Vascular Retinopathies: Diabetic, Hypertensive, Toxemia of pregnancy
- 5.10.2 Retinal Detachment – classification, aetiology & management
- 5.10.3 Retinitis Pigmentosa

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5.18 Ocular trauma – 3 lectures

- 5.18.1 Blunt Trauma
- 5.18.2 Perforating Trauma
- 5.18.3 Chemical Burns
- 5.18.4 Sympathetic Ophthalmitis

5.19 Principles of Management of Major Ophthalmic Emergencies – 2 lectures

- 5.19.1 Acute Congestive Glaucoma
- 5.19.2 Corneal Ulcer
- 5.19.3 Intraocular Trauma
- 5.19.4 Chemical Burns
- 5.19.5 Sudden Loss of Vision
- 5.19.6 Acute Iridocyclitis
- 5.19.7 Secondary Glaucoma

5.20 Systemic Diseases Affecting the Eye – 2 lectures

- 5.20.1 Tuberculosis
- 5.20.2 Syphilis
- 5.20.3 Leprosy
- 5.20.4 AIDS
- 5.20.5 Diabetes
- 5.20.6 Hypertension

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5.22 Community Ophthalmology – 2 lectures

- 5.22.1 Blindness: Definition, causes & Magnitude
- 5.22.2 N.P.C.B- Vision 2020
- 5.22.3 Preventable Blindness – causes & treatment
- 5.22.4 Role of PHCs in Eye Care
- 5.22.5 Nutritional deficiencies

Lecture Programme – 7th Semester

1	<p>Uvea-Anatomy, Classification of Uveitis</p> <ul style="list-style-type: none">• Anatomy of iris• Anatomy of Ciliary body• Anatomy of choroid• Classification of uveitis• Anatomical classification• Aetiological classification• Aetiopathogenesis of uveitis
2	<p>Anterior uveitis</p> <ul style="list-style-type: none">• Definition• Aetiopathogenesis• Clinical features• Investigations• Differential diagnosis• Differential diagnosis of Acute Red Eye• Treatment
3	<p>Posterior Uveitis, Choroiditis, Endophthalmitis, Panophthalmitis</p> <ul style="list-style-type: none">• Definition• Clinical features• Management <p>Short notes</p> <ul style="list-style-type: none">• Endophthalmitis• Panophthalmitis• AIDS• Toxoplasmosis
4	<p>Cornea-Anatomy, Physiology & Transparency</p> <ul style="list-style-type: none">• Importance of cornea in vision• Different anatomical layers and their function• Blood supply, nerve supply of cornea• Factors maintaining corneal transparency
5	<p>Corneal Ulcer-Bacterial & Fungal</p> <ul style="list-style-type: none">• Factors protecting the normal cornea• Etiology and clinical feature of bacterial corneal ulcer• Etiology and clinical features of fungal corneal ulcer• Bacteriological Investigations• Differentiating features

6	<p>Viral Keratitis, Nutritional Deficiency</p> <ul style="list-style-type: none"> • Etiology of viral keratitis • Herpes simplex keratitis –clinical features • Management of HSV keratitis • Herpes Zoster Keratitis • Management of HZO • Keratomalacia-clinical faatures and management
7	<p>Corneal Dystrophies & Degenerations</p> <ul style="list-style-type: none"> • Dystrophy versus degeneration • Epithelial dystrophies • Stromal dystrophies • Endothelial dystrophies • Corneal degeneration • Summary/Must know
8	<p>Keratoplasty & Eye Banking</p> <ul style="list-style-type: none"> • Burden of corneal blindness • Indications of keratoplasty • Eye Donation • Procedure of Keratoplasty • Complications of Keratoplasty • Summary/Must know
9	<p>Lens-Anatomy, Classification of Cataract</p> <ul style="list-style-type: none"> • To acquaint the students to this commonest ocular condition
10	<p>Congenital Cataract, Developmental Cataract</p> <ul style="list-style-type: none"> • Discuss in detail the anatomy of lens and classification of cataract
11	<p>Senile Cataract, Management of Cataract</p> <ul style="list-style-type: none"> • Familiarize the students to diagnose mature/immature cataract
12	<p>Post Operative Complications</p> <ul style="list-style-type: none"> • Show images and videos of the various types of cataract
13	<p>Recent Advances in Cataract Surgeries</p> <ul style="list-style-type: none"> • Discuss the post operative complications of cataract surgery and recent advances in cataract surgery.
14	<p>Glaucoma – Classification, Aqueous humour dynamics</p> <ul style="list-style-type: none"> • Definition of glaucoma • Aqueous humour formation • Aqueous humour outflow • Factors influencing IOP • Tonography • Tonometry
15	<p>Primary Open Angle Glaucoma</p>

	<ul style="list-style-type: none"> • Epidemiology • Etiopathogenesis • Clinical features • Symptoms • Signs • Visual field defects • Investigations • Treatment • Medical • Surgical • Lasers
16	Primary Angle Closure Glaucoma <ul style="list-style-type: none"> • Epidemiology • Aetiopathogenesis • Classification • Clinical features including features of acute PACG • Treatment • Medical • Surgical • Lasers
17	Congenital Glaucoma and Secondary Glaucoma <ul style="list-style-type: none"> • Terminology • Epidemiology • Types • Clinical features • Treatment • Medical • Surgical • Lasers
18	Recent Advances in Glaucoma <ul style="list-style-type: none"> • Advances in drugs • Advances in visual field evaluation • Advances in tonometry • Advances in lasers and surgical management of glaucoma
19	Anatomy & Physiology of Retina <ul style="list-style-type: none"> • Anatomy of Retina • Neuro Sensory Retina • Retinal Pigment Epithilium • Macula lutea • Physiology of retina • Examination of the Fundus • Direct and Indirect Ophthalmoscope • Colour coding

20	<p>Hypertensive Retinopathy & Diabetic Retinopathy</p> <ul style="list-style-type: none"> • Diabetic Retinopathy • Definition • Epidemiology • Pathogenesis • Classification • Clinical features • Management • Hypertensive Retinopathy • Definition • Epidemiology • Pathogenesis • Classification • Clinical features • Management
21	<p>ARMD, Retinal Detachment, Retinal Dystrophies</p> <ul style="list-style-type: none"> • Age related macular degeneration • Definition • Epidemiology • Pathogenesis • Classification • Clinical features • Management • Retinal detachment • Definition • Epidemiology • Pathogenesis • Classification • Clinical features • Management • Vascular Occlusions of Retina (short notes) • CRVO • BRVO • CRAO • BRAO
22	<p>Vitreous-Anatomy, Posterior, Vitreous Detachment, Vitreous Haemorrhage, Degenerations</p> <ul style="list-style-type: none"> • To discuss in detail the anatomy of vitreous • To discuss and diagnosis common vitreous pathologies like degeneration and detachment • Discuss types , ethiology, C/F, Rx of vitreous h'ge • Discuss and diagnosis of asteroid hyalosis and synchysis scintillans

23	<p>Trauma-Blunt trauma and Perforating trauma</p> <ul style="list-style-type: none"> • Modes of trauma • Mechanism of blunt trauma • Classification of blunt trauma • Ocular manifestations of perforating trauma • Modes of perforating trauma • Effects of perforating trauma • Ocular manifestations of perforating trauma • Management of blunt and perforating trauma
24	<p>Trauma-Surface Foreign Body, Retained Intraocular Foreign Body (RIOFB)</p> <ul style="list-style-type: none"> • Extraocular foreign body • Common types of foreign body • Symptoms • Signs • Complications • Treatment • Retained IOFB • Common IOFB • Modes of damage • Management of Retained intraocular foreign body.
25	<p>Trauma – Chemical and Thermal Injuries</p> <ul style="list-style-type: none"> • Modes of chemical injury • Types • Symptoms • Signs • Grading of chemical burns • Treatment • Causes of thermal injuries • Treatment
26	<p>Ocular Emergencies</p> <p>Classification of ocular emergencies</p> <ul style="list-style-type: none"> • Emergency management of CRAO • Emergency management of Acute Congestive Glaucoma • Emergency management of Mechanical Injuries • Emergency management of Alkali burns • Emergency management of Acid burns
27	<p>Ocular Emergencies</p> <ul style="list-style-type: none"> • Emergency management of Globe Perforation • Emergency management of ocular surface foreign bodies <p>Short notes</p> <ul style="list-style-type: none"> • Sympathetic ophthalmitis • Management of Acute Red Eye • Management of a Case of Acute Vision Loss

	<ul style="list-style-type: none"> • Emergency management of Corneal Ulcers
28	<p>Systemic Diseases affecting the Eye</p> <ul style="list-style-type: none"> • Importance of eye in systemic disease • Eye changes in diabetes mellitus • Eye changes in hypertension • Eye changes in leprosy • Eye changes in tuberculosis • Summary/Must know
29	<p>Community Ophthalmology – National Programme</p> <ul style="list-style-type: none"> • To discuss national programme for control of blindness – its aims, objectives, implementation, goals, levels of control of blindness
30	<p>Vision 20-20, Eye Camps</p> <ul style="list-style-type: none"> • Vision 2020 – aims, objective, how can it be achieved • Roll of eye camps in blindness prevention
31	<p>Recent Advances</p> <ul style="list-style-type: none"> • Refractive surgeries of corneal – PRK LASIK • Refractive surgeries of lens- phakic IOLs, CLE • Newer LOLs • Laser procedures in retina • VEGF • Summary/Must know
32	<p>Lasers in Ophthalmology</p> <ul style="list-style-type: none"> • Definition of LASER • How lasers work in eye • Lasers in refractive surgery • Lasers in glaucoma • Lasers in Retina of P.C.O. • Summary/Must know

Tutorial Programme – 7th Semester

1	<p>Approach to a case of gradual progressive painless DOV</p> <ul style="list-style-type: none">• Definition• Common Causes of Painless DOV• Discussion about each• Cataract• Primary open angle glaucoma• ARMD
2	<p>Approach to a case of acute red eye</p> <ul style="list-style-type: none">• Red eye definition• Causes of acute red eye• Differential diagnosis – Acute conjunctivitis Acute iridocyclitis Acute glaucoma• Clinical features
3	<p>Optics</p> <ul style="list-style-type: none">• Identification<ul style="list-style-type: none">i) Lens - Spherical Cylindrical Prismii) Uses of various types of lenses
4	<p>Ocular Emergencies</p>

	<ul style="list-style-type: none">• Corneal foreign bodies• Chemical injuries• Blunt trauma to eye• Penetrating trauma to eye• Retained intraocular foreign bodies
5	<p>Contact lens</p> <ul style="list-style-type: none">• Definition• Uses of contact lenses• Types of contact lenses<ul style="list-style-type: none">i) Hard contact lensesii) Se RGP contact lensesiii) Soft contact lenses• Fitting of contact lenses• Trial of contact lenses• Care of contact lenses• Contact lens solution• Complications of contact lens use
6	<p>Refractive cataract surgery</p> <ul style="list-style-type: none">• IOL advances• Clear lens extraction• Piggy back IOL

	<ul style="list-style-type: none">• Incision planning• A Scan /B Scan
7	<p>ICCE & ECCE</p> <ul style="list-style-type: none">• Procedures (Steps discussed)• ECCE classification• Discussion of pre operative/post operative complications

Dr. D. Y. Patil Medical College, Pimpri, Pune– 18

Department Of Ophthalmology

UG training programme

Date :- 23.06.16

Semester	Faculty I/C	Faculty for Lectures	Faculty for Tutorials
7 th Semester	Dr Radhika Paranjpe	Dr R Magdum	Dr N Chougule
		Dr O K radhakrishana	Dr M Kotecha
		Dr A Lune	Dr P Bakare
		Dr A Gahlot	Dr Y Chougule
		Dr R Maheshgauri	
		Dr R Paranjpe	
		Dr K Sandhya	
		Dr R Gaud	
		Dr P Gogate	
Dr p Apte			

Dr R Paranjpe
Asst. Professor
7th Sem Incharge

Dr R Magdum
Prof & HOD