

## Department of Ophthalmology

Period : 03/July/17 to 07/September/17

Semester : 7<sup>th</sup> Semester

### Lecture Lesson Plan

<b>Sr No</b>	<b>Date</b>	<b>Topic</b>	<b>Learning objectives</b>	<b>Name Of The Teachers</b>
1	03.07.17	Uvea-Anatomy, Classification of Uveitis	Uvea-Anatomy, Classification of Uveitis <ul style="list-style-type: none"><li>• Anatomy of iris</li><li>• Anatomy of Ciliary body</li><li>• Anatomy of choroid</li><li>• Classification of uveitis</li><li>• Anatomical classification</li><li>• Aetiological classification</li><li>• Aetiopathogenesis of uveitis</li></ul>	Dr R Paranjpe
2	04.07.17	Anterior Uveitis	Anterior uveitis <ul style="list-style-type: none"><li>• Definition</li><li>• Aetiopathogenesis</li><li>• Clinical features</li></ul>	Dr. R Paranjpe
3	06.07.17	Posterior Uveitis, Choroiditis,	Posterior Uveitis, Choroiditis, <ul style="list-style-type: none"><li>• Definition</li><li>• Clinical features</li><li>• Management of Uveitis</li><li>• Investigations</li><li>• Differential diagnosis</li><li>• Differential diagnosis of Acute Red Eye</li><li>• Treatment</li></ul>	Dr R Paranjpe
4	08.07.17	Endophthalmitis , Panophthalmitis	Short notes <ul style="list-style-type: none"><li>• <b>Sympathetic Ophthalmritis</b></li><li>• <b>Endophthalmitis</b></li><li>• <b>Panophthalmitis</b></li><li>• <b>AIDS</b></li><li>• <b>Toxoplasmosis</b></li></ul>	<b>Dr R Paranjpe</b>
5	10.07.17	Cornea- Anatomy, Physiology & Transparency	Cornea-Anatomy, Physiology & Transparency <ul style="list-style-type: none"><li>• Importance of cornea in vision</li><li>• Different anatomical layers and their function</li><li>• Blood supply, nerve supply of cornea</li><li>• Factors maintaining corneal transparency</li></ul>	Dr R Magdum

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<b>6</b>	11.07.17	Corneal Ulcer-Bacterial & Fungal	Corneal Ulcer-Bacterial & Fungal <ul style="list-style-type: none"> <li>• Factors protecting the normal cornea</li> <li>• Etiology and clinical feature of bacterial corneal ulcer</li> <li>• Etiology and clinical features of fungal corneal ulcer</li> <li>• Bacteriological Investigations</li> <li>• Differentiating features</li> </ul>	Dr R Magdum
<b>7</b>	13.07.17	Viral Keratitis & Nutritional Deficiency	Viral Keratitis, Nutritional Deficiency <ul style="list-style-type: none"> <li>• Etiology of viral keratitis</li> <li>• Herpes simplex keratitis –clinical features</li> <li>• Management of HSV keratitis</li> <li>• Herpes Zoster Keratitis</li> <li>• Management of HZO</li> <li>• Keratomalacia-clinical faatures and management</li> </ul>	Dr R Magdum
<b>8</b>	15.07.17	Corneal Dystrophies & Degenerations	Corneal Dystrophies & Degenerations <ul style="list-style-type: none"> <li>• Dystrophy versus degeneration</li> <li>• Epithelial dystrophies</li> <li>• Stromal dystrophies</li> <li>• Endothelial dystrophies</li> <li>• Corneal degeneration</li> <li>• Summary/Must know</li> </ul>	Dr R Magdum
<b>9</b>	17.07.17	Keratoplasty & Eye Banking	Keratoplasty & Eye Banking <ul style="list-style-type: none"> <li>• Burden of corneal blindness</li> <li>• Indications of keratoplasty</li> <li>• Eye Donation</li> <li>• Procedure of Keratoplasty</li> <li>• Complications of Keratoplasty</li> <li>• Summary/Must know</li> </ul>	Dr R Magdum
<b>10</b>	18.07.17	Lens- Anatomy, Classification of Cataract	Lens-Anatomy, Classification of Cataract <ul style="list-style-type: none"> <li>• To acquaint the students to this commonest ocular condition</li> </ul>	Dr A Lune
<b>11</b>	20.07.17	Congenital Cataract & Developmental Cataract	Congenital Cataract, Developmental Cataract <ul style="list-style-type: none"> <li>• Discuss in detail the anatomy of lens and classification of cataract</li> </ul>	Dr A Lune

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<b>12</b>	22.07.17	Senile Cataract & Management of Cataract	Senile Cataract, Management of Cataract <ul style="list-style-type: none"> <li>Familiarize the students to diagnose mature/immature cataract</li> </ul>	Dr A Lune
<b>13</b>	24.07.17	Post Operative Complications of Cataract Surgery	Post Operative Complications <ul style="list-style-type: none"> <li>Show images and videos of the various types of cataract</li> </ul>	Dr A Lune
<b>14</b>	25.07.17	Recent Advances in Cataract Surgery	Recent Advances in Cataract Surgeries <ul style="list-style-type: none"> <li>Discuss the post operative complications of cataract surgery and recent advances in cataract surgery.</li> </ul>	Dr A Lune
<b>15</b>	27.07.17	Glaucoma- Classification & Aqueous Humor Dynamics	Glaucoma – Classification, Aqueous humour dynamics <ul style="list-style-type: none"> <li>Definition of glaucoma</li> <li>Aqueous humour formation</li> <li>Aqueous humour outflow</li> <li>Factors influencing IOP</li> <li>Tonography/Tonometry</li> </ul>	Dr O K Radhakrishnan
<b>16</b>	29.07.17	Primary Open Angle Glaucoma	Primary Open Angle Glaucoma <ul style="list-style-type: none"> <li>Epidemiology</li> <li>Etiopathogenesis</li> <li>Clinical features</li> <li>Symptoms</li> <li>Signs</li> <li>Visual field defects</li> <li>Investigations</li> <li>Treatment</li> <li>Medical</li> <li>Surgical</li> <li>Lasers</li> </ul>	Dr O K Radhakrishnan
<b>17</b>	31.07.17	Primary Angle Closure Glaucoma	Primary Angle Closure Glaucoma <ul style="list-style-type: none"> <li>Epidemiology</li> <li>Aetiopathogenesis</li> <li>Classification</li> <li>Clinical features including features of acute PACG</li> <li>Treatment</li> <li>Medical</li> <li>Surgical</li> <li>Lasers</li> </ul>	Dr O K Radhakrishnan

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<b>18</b>	01.08.17	Congenital Glaucoma & Secondary Glaucoma	Congenital Glaucoma and Secondary Glaucoma <ul style="list-style-type: none"> <li>• Terminology</li> <li>• Epidemiology</li> <li>• Types</li> <li>• Clinical features</li> <li>• Treatment</li> <li>• Medical</li> <li>• Surgical</li> <li>• Lasers</li> </ul>	Dr O K Radhakrishnan
<b>19</b>	03.08.17	Recent Advances in Glaucoma	Recent Advances in Glaucoma <ul style="list-style-type: none"> <li>• Advances in drugs</li> <li>• Advances in visual field evaluation</li> <li>• Advances in tonometry</li> <li>• Advances in lasers and surgical management of glaucoma</li> </ul>	Dr O K Radhakrishnan
<b>20</b>	05.08.17	Anatomy & Physiology of Retina	Anatomy & Physiology of Retina <ul style="list-style-type: none"> <li>• Anatomy of Retina</li> <li>• Neuro Sensory Retina</li> <li>• Retinal Pigment Epithelium</li> <li>• Macula lutea</li> <li>• Physiology of retina</li> <li>• Examination of the Fundus</li> <li>• Direct and Indirect Ophthalmoscope</li> <li>• Colour coding</li> </ul>	Dr S Prasad
<b>21</b>	07.08.17	Hypertensive Retinopathy & Diabetic Retinopathy	Hypertensive Retinopathy & Diabetic Retinopathy <ul style="list-style-type: none"> <li>• Diabetic Retinopathy</li> <li>• Definition</li> <li>• Epidemiology</li> <li>• Pathogenesis</li> <li>• Classification</li> <li>• Clinical features</li> <li>• Management</li> <li>• Hypertensive Retinopathy</li> <li>• Definition</li> <li>• Epidemiology</li> <li>• Pathogenesis</li> <li>• Classification</li> <li>• Clinical features</li> <li>• Management</li> </ul>	Dr S Prasad

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22	08.08.17	ARMD, Retinal Dystrophies	ARMD, Retinal Dystrophies, Retinitis Pigmentosa <ul style="list-style-type: none"> <li>• Age related macular degeneration</li> <li>• Definition</li> <li>• Epidemiology</li> <li>• Pathogenesis</li> <li>• Classification</li> <li>• Clinical features</li> <li>• Management</li> <li>• Vascular Occlusions of Retina (short notes)</li> <li>• CRVO</li> <li>• BRVO</li> <li>• CRAO</li> <li>• BRAO</li> </ul>	Dr S Prasad
23	10.08.17	<b>Retinal Detachment</b>	<b>Retinal Detachment</b> <ul style="list-style-type: none"> <li>• <b>Retinal detachment</b></li> <li>• <b>Definition</b></li> <li>• <b>Epidemiology</b></li> <li>• <b>Pathogenesis</b></li> <li>• <b>Classification</b></li> <li>• <b>Clinical features</b></li> <li>• <b>Management</b></li> </ul>	<b>Dr S Prasad</b>
24	12.08.17	Vitreous – Anatomy,PVD, Vitreous Hg & Degeneration	Vitreous-Anatomy, Posterior, Vitreous Detachment, Vitreous Haemorrhage, Degenerations <ul style="list-style-type: none"> <li>• To discuss in detail the anatomy of vitreous</li> <li>• To discuss and diagnosis common vitreous pathologies like degeneration and detachment</li> <li>• Discuss types , ethiology, C/F, Rx of vitreous h'ge</li> <li>• Discuss and diagnosis of asteroid hyalosis and sychysis scintillans</li> </ul>	Dr S Prasad
25	14.08.17	Trauma – Blunt Trauma & Perforating Trauma	Trauma-Blunt trauma and Perforating trauma <ul style="list-style-type: none"> <li>• Modes of trauma</li> <li>• Mechanism of blunt trauma</li> <li>• Classification of blunt trauma</li> <li>• Ocular manifestations of perforating trauma</li> <li>• Modes of perforating trauma</li> <li>• Effects of perforating trauma</li> <li>• Ocular manifestations of perforating trauma</li> <li>• Management of blunt and perforating trauma</li> </ul>	Dr R Maheshgauri

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26	19.08.17	Trauma - Surface Foreign body, Retained IOFB	Trauma-Surface Foreign Body, Retained Intraocular Foreign Body (RIOFB) <ul style="list-style-type: none"> <li>• Extraocular foreign body</li> <li>• Common types of foreign body</li> <li>• Symptoms</li> <li>• Signs</li> <li>• Complications</li> <li>• Treatment</li> <li>• Retained IOFB</li> <li>• Common IOFB</li> <li>• Modes of damage</li> <li>• Management of Retained intraocular foreign body.</li> </ul>	Dr R Maheshgauri
27	21.08.17	Trauma – Chemical & Thermal Injuries	Trauma – Chemical and Thermal Injuries <ul style="list-style-type: none"> <li>• Modes of chemical injury</li> <li>• Types</li> <li>• Symptoms</li> <li>• Signs</li> <li>• Grading of chemical burns</li> <li>• Treatment</li> <li>• Causes of thermal injuries</li> <li>• Treatment</li> </ul>	Dr R Maheshgauri
28	22.08.17	Ocular Emergencies -I	Ocular Emergencies Classification of ocular emergencies <ul style="list-style-type: none"> <li>• Emergency management of CRAO</li> <li>• Emergency management of Acute Congestive Glaucoma</li> <li>• Emergency management of Mechanical Injuries</li> <li>• Emergency management of Alkali burns</li> <li>• Emergency management of Acid burns</li> </ul>	Dr R Maheshgauri
29	24.08.17	Ocular Emergencies -II	Ocular Emergencies <ul style="list-style-type: none"> <li>• Emergency management of Globe Perforation</li> <li>• Emergency management of ocular surface foreign bodies</li> </ul> Short notes <ul style="list-style-type: none"> <li>• Sympathetic ophthalmitis</li> <li>• Management of Acute Red Eye</li> <li>• Management of a Case of Acute Vision Loss</li> <li>• Emergency management of Corneal Ulcers</li> </ul>	Dr R Maheshgauri

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30	26.08.17	Systemic Diseases affecting the Eye -I	Systemic Diseases affecting the Eye <ul style="list-style-type: none"> <li>• Importance of eye in systemic disease</li> <li>• Eye changes in diabetes mellitus</li> <li>• Eye changes in hypertension</li> </ul>	Dr R Goud
31	28.08.17	Systemic Diseases - II	<ul style="list-style-type: none"> <li>• Eye changes in leprosy</li> <li>• Eye changes in tuberculosis</li> <li>• Summary/Must know</li> </ul>	Dr R Goud
32	29.08.17	Community Ophthalmology- National Programme	Community Ophthalmology – National Programme <ul style="list-style-type: none"> <li>• To discuss national programme for control of blindness – its aims, objectives, implementation, goals, levels of control of blindness</li> </ul>	Dr A Rege
33	31.08.17	Vision 2020, Eye Camp	Vision 20-20, Eye Camps <ul style="list-style-type: none"> <li>• Vision 2020 – aims, objective, how can it be achieved</li> <li>• Roll of eye camps in blindness prevention</li> </ul>	Dr A Rege
34	04.09.17	Recent Advances in Ophthalmology	Recent Advances <ul style="list-style-type: none"> <li>• Refractive surgeries of corneal – PRK LASIK</li> <li>• Refractive surgeries of lens- phakic IOLs, CLE</li> <li>• Newer LOLs</li> <li>• Laser procedures in retina</li> <li>• VEGF</li> <li>• Summary/Must know</li> </ul>	Dr M Kotecha
35	07.09.17	Lasers in Ophthalmology	Lasers in Ophthalmology <ul style="list-style-type: none"> <li>• Definition of LASER</li> <li>• How lasers work in eye</li> <li>• Lasers in refractive surgery</li> <li>• Lasers in glaucoma</li> <li>• Lasers in Retina of P.C.O.</li> <li>• Summary/Must know</li> </ul>	Dr M Kotecha

## Department of Ophthalmology

Period : 05 July 2017 to 13 September 2017

Semester : 7<sup>th</sup> Semester

### Tutorial Programme Lesson Plan

Sr No	Date	Topic	Learning objectives	Name Of The Teachers
1	05.07.17	Approach to a case of gradual progressive painless DOV	<p>Approach to a case of gradual progressive painless DOV</p> <ul style="list-style-type: none"> <li>• Definition</li> <li>• Common Causes of Painless DOV</li> <li>• Discussion about each</li> <li>• Cataract</li> <li>• Primary open angle glaucoma</li> <li>• ARMD</li> </ul>	Dr Prachi Bakare
2	12.07.17	Approach to a case of acute red eye	<p>Approach to a case of acute red eye</p> <ul style="list-style-type: none"> <li>• Red eye definition</li> <li>• Causes of acute red eye</li> <li>• Differential diagnosis – Acute conjunctivitis Acute iridocyclitis Acute glaucoma</li> <li>• Clinical features</li> </ul>	Dr Iqra Mushtaq
3	19.07.17	Optics	<p>Optics</p> <ul style="list-style-type: none"> <li>• Identification               <ul style="list-style-type: none"> <li>i) Lens - Spherical Cylindrical Prism</li> <li>ii) Uses of various types of lenses</li> </ul> </li> </ul>	Dr Preeti Kumari
4	26.07.17	Instruments	<p>Instruments</p> <ul style="list-style-type: none"> <li>• OPD</li> <li>• Operative</li> <li>• Basic examination</li> <li>• Sac syringing, Tonometer</li> </ul>	Dr Deepaswi Bhawsar



5	02.08.17	ICCE & ECCE	<p>ICCE &amp; ECCE</p> <ul style="list-style-type: none"> <li>• Procedures (Steps discussed)</li> <li>• ECCE classification</li> </ul> <p>Discussion of pre operative/post operative complications</p>	Dr Prachi Bakare
6	09.08.17	SICS & Phacoemulsification	<ul style="list-style-type: none"> <li>• Outline of sics surgery</li> <li>• Outline of phacoemulsification</li> <li>• Merits and demerits</li> </ul>	Dr Iqra Mushtaq
7	16.08.17	Contact Lens	<ul style="list-style-type: none"> <li>• Definition</li> <li>• Uses of contact lenses</li> <li>• Types of contact lenses <ul style="list-style-type: none"> <li>i) Hard contact lenses</li> <li>ii) Se RGP contact lenses</li> <li>iii) Soft contact lenses</li> </ul> </li> <li>• Fitting of contact lenses</li> <li>• Trial of contact lenses</li> <li>• Care of contact lenses</li> <li>• Contact lens solution</li> <li>• Complications of contact lens use</li> </ul>	Dr Aditya Rege
8	23.08.17	Refractive Surgery	<p>Refractive cataract surgery</p> <ul style="list-style-type: none"> <li>• IOL advances <ul style="list-style-type: none"> <li>• Clear lens extraction</li> <li>• Piggy back IOL</li> <li>• Incision planning</li> <li>A Scan /B Scan</li> </ul> </li> </ul>	Dr Megha Kotecha
9	30.07.17	Enucleation & Evisceration	<p>Enucleation &amp; Evisceration</p> <ul style="list-style-type: none"> <li>• Outline of surgery</li> </ul>	Dr Rakesh Goud
10	06.09.17	Drugs	<p>Drugs</p> <ul style="list-style-type: none"> <li>• Miotics, Antibiotics, Antiglaucoma</li> <li>• Mydriatics, Steroids, Antiviral, NSAIDS</li> <li>• Antifungals, Viscoelastics</li> </ul>	Dr Preeti Kumari
11	13.09.17	Ocular Emergencies	<p>Ocular Emergencies</p> <ul style="list-style-type: none"> <li>• Corneal foreign bodies</li> <li>• Chemical injuries</li> <li>• Blunt trauma to eye</li> <li>• Penetrating trauma to eye</li> <li>Retained intraocular foreign bodies</li> </ul>	Dr Deepaswi Bhawsar