Pathology & Immunology (General & Ocular) BVOCOP-304

**Unit:1**

General Pathology: Principles, Pathology of cornea and conjunctiva, Pathology of eyelids and adnexa **Unit:2**

Brief Pathology of Uvea, lens, glaucoma, Retina, retina in systemic disease / disorders, Retinoblastoma ,Optic nerve, Pathology of Orbital spaces occupying lesions

**Unit:3**

Structure and function of immune system – structure and function of thymus, spleen and red bone narrow- immunity and its types, plasma protection and immune reaction, cell involved in immune system humoral immunity ,theories of antibodies formation

**Unit:4**

Structure and function of lymph nodes. No specific immunity, antibody mediated immunity, specific immunity, cell modified immunity, Active immunity, Passive immunity.

**Unit:5**

Source of infection: Transmission of organism to the body, wound infections. Wound healing. Immuno-pathogenesis – types I, II, III, IV hypersensitivity. Mechanism of auto immunity. Organ specific and no-organ specific auto immune disease. The HLA system histocompatibility complex.

**Unit: 6**

Pyogenic and bacterial infection Graft rejection basic outline. Disorder of growth – metaphase, dysplasia, neoplasia. Circulatory disturbances

thrombosis infraction, ischemia, embolism, degeneration (calcification).

**Text Book:**

1)KS Ratnagar: Pathology of the Eye & Orbit,JayPee brothers Medical Publishers,1997.

2) Thomas J Kindt,Richard A Goldsby,Barbara A Osborne:KUBY IMMUNOLOGY,6th Edition,W H Freeman & Company,2007

**Reference :**

1)CORTON KUMAR & ROBINS: Pathological Basis Of The Disease,7th Edition,Elsevier,New Delhi ,2004