

## **VDT-302 Applied Pathology and Microbiology Related to Dialysis Department**

**Objective** - To objectify the abnormalities of urinary system and renal vascular system and student will study about the microbial infections of kidney.

### **UNIT - 1 Pathology**

- Congenital abnormalities of urinary system.
- Classification of renal diseases.
- Glomerular diseases: causes, types & pathology.
- Tubulo-interstitial diseases.

### **UNIT - 2 Renal vascular disorders.**

- End stage renal diseases: causes & pathology.
- Pathology of kidney in hypertension, diabetes mellitus, pregnancy.
- Pathology of peritoneum, peritonitis, bacterial, tubular & sclerosing peritonitis, dialysis
- induced changes.
- Pathology of urinary tract infections
- Pyelonephritis & tuberculous pyelonephritis

### **UNIT - 3 Viral Infections**

- Hepatotropic viruses in detail: mode of transfusion, universal precautions vaccinations.
- Human immunodeficiency virus (HIV), mode of transfusion, universal precautions.
- Opportunistic infections.

**UNIT - 4** Microbiology of urinary tract infections, Microbiology of vascular access infection (femoral, jugular, subclavian catheters), Sampling methodologies for culture & sensitivity.

### **Recommended Books:**

- Burton's microbiology for the health science, the science of laboratory diagnosis, C.P Baveja, P.B godkar "A Textbook of Basic and Applied Microbiology" by K R Aneja
- Essential of clinical pathology, clinical pathology board review, Henry's clinical pathology, Quick compendium of clinical pathology, Harsh mohan