**Pathology & Pharmacology BVOCOT-302**

**Objective and Learning Outcome**: To understand the basics of pathology and control. To utilize critical thinking skills in discussing the concept of pharmacotherapy. To understand basic concepts of pharmacology.

**UNIT I. Applied pathology**

**Theory: 50hrs Practical: 20 hrs**

1. Esophagus, stomach, Duodenum. Their anatomical relevance to Endoscopy

2. Anal Canal, Colon, their Relevance to Colonoscopy - Endoscopy

3. GI Tract Pathogenesis

4. Common Diseases of Colón

5. Double balloon enteroscopy, capsule endoscopy in Small Intestine

6. Respiratory tract Disorders

7. Bleeding Lesions of Oesophagus

**UNIT II. Applied Pharmacology**

1. Pharmacodynamics and Pharmacokinetics of Drugs

2. Cardiovascular Drugs – Dopamine, Dobirtamin, Adrenaline, Nor adrenaline, Vasopressin, Nitroglycerine, S.N.P, Esmolol, Labetalol, Metaprotol, Anti arrhythmic agents, Atropine, Glycopyrrolate. Haemostasis Drugs- Heparin / Tranexamic acid

3. General Anesthesia Drugs, Regional Anesthesia Drugs

4. Emergency drugs

5. Analgesics

6. Antihistamines and antiemetic’s

7. Inhalation gases

8. Pharmacotherapy of respiratory Disorders

9. Corticosteroids

10. Pharmacological protection of organs during CPB

11. Diuretics

12. Miscellaneous Drugs- Intravenous Fluids