Course Code: PHL 513  
Course Name: Advanced Pharmacology-2  
Number of hrs per unit: 3

Course Description:

This course is concerned with advanced knowledge in pharmacological aspects and therapeutic applications of drugs acting on the cardiovascular system and kidney. It gives an emphasis on molecular pharmacology of these drugs as well as aspects of clinical usefulness such as contraindications, interactions and adverse reactions.

Course Contents:

I. Antihypertensive Agents:  
   Advanced mechanism of action with special emphasis on drugs interfering with cellular calcium and drugs inhibiting angiotensin-converting enzyme.

II. Drugs used in the treatment of congestive heart failure.

III. Drugs used in the treatment of hypotension and shock.

IV. Drugs used in the treatment of ischaemic heart disease.

V. Drugs used in the management of thromboembolic diseases.

VI. Antiarrhythmic agents.

VII. Antihyperlipidemic agents:
   - Correlation between hyperlipidemia, hypercholesterolemia and atherosclerosis.
   - Diet and drugs affecting LDL, VLDL and HDL levels with emphasis on the theory of cholesterol receptors.

VIII. Diuretics:
   - Classification of renal disease and treatment.