



Pharmacogenomics	
Title: Pharmacogenomics	
Subject code: 533 PHL	
Semester: Tenth Semester (Fifth year).	
Duration: 2 + 0 Units (2 contact hours) per week.	
Aims: The course aims to develop rational means to optimize drug therapy with respect to the patient's genotype in order to ensure maximum efficacy with minimal side effects.	
Objectives: Upon successful completion of the course the student shall be able to understand the genetic basis for differences in drug response, genetic variabilities in enzymes, drug receptors, transporters and regulatory proteins involved in promoting and inhibiting transcription and translation process.	
Contents: The course provides students with a comprehensive overview of the genetic basis for differences in drug response. Genetic variabilities in enzymes, drug receptors, transporters and regulatory proteins involved in promoting and inhibiting transcription and translation processes.	
Minimum course requirements: 30 (2 x 15) Unit lectures (30 contact hours) per level.	
Evaluation methods:	
- Quizzes	15%
- Mid term examination (Written)	25%
- Final examination (written)	60%



Books (latest edition):

1. Concepts in Pharmacogenomics by Martin M. Zdanowicz.
2. Pharmacogenomics: Application to patient care by American College of Clinical Pharmacy (ACCP).
3. Pharmacogenomics: Social, Ethical and Clinical dimensions by Mark A. Rothstein.
4. Lexi-Comp's Pharmaco-Genomics Handbook (Drug Information Series) Larisa M. Cavallari, Vicki L. Ellingrod, Jill M. Kolesar