BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, Pilani
Pilani Campus
Instruction Division

SECOND SEMESTER 2016-2017

Course Handout

Date: 08/08/2016

Course No. : PHA F341
Course Title : Pharmacology-II
Instructor-In-Charge : Dr. Gaikwad Anil Bhanudas
Team of Instructors : None

Course Description:
Pharmacology of important classes of drugs including their mechanisms of action, therapeutic uses, side effects, toxic manifestations, indications and contraindications.

Scope and Objectives:
This course is intended to impart the knowledge regarding the concepts of actions of drugs on various systems of the human body including cardiovascular system, urinogenital system, respiratory system, gastrointestinal and endocrine system etc. The course also imparts the knowledge regarding the mechanisms of action of various antimicrobial agents in the treatment and prevention of various diseases caused by the bacteria, fungi viruses and parasites. The course also deals with the drug-drug interactions, therapeutic uses, side effects and contraindications of the drugs, which are commonly prescribed for the treatment of various disease conditions.

Text book:

1. Satoskar R.S. & Bhandarkar S.D., Pharmacology and Pharmacotherapeutics. Revised 22nd edition, Popular Prakashan, Bombay, 2011.

Reference Books:

1. Tripathi KD, Essentials of Medical Pharmacology, 6th edition, Jaypee brothers, New Delhi, 2006.
2. Lippincott's Illustrated reviews: Pharmacology, MJ Mycek et al (Editor), Lippincott-Raven Publishers, New York, 3rd edition, 2001.
3. Katzung BG, Basic and Clinical Pharmacology, 8th edition, Prentice Hall, London, 2001
4. Goodman & Gilman's The Pharmacological Basis of Therapeutics, by JG Hardman (Editor), 10th edition, McGraw-Hill Publishing Co, 2001.
5. Pharmacology, HP Rang, MM Dale & JM Ritter (editors), 6th edition, Churchill Livingstone, 2007.

COURSE PLAN:

Lect. No.	Topics to be covered	Lecture Contents
1	Cardiovascular Drugs	Renin-Angiotensin system
2-3		Antihypertensive drugs
4		Antianginal drugs
5-6		Antiarrythmic agents
7		Cardiac Glycosides and drugs for heart failure
8-9		Hypolipidaemic drugs
10-11	Drugs Acting on Kidney	Diuretics
12		Antidiuretics
13-14	Drugs Affecting Blood and Blood Formation	Coagulants and anticoagulants
15		Fibrinolytics and Antifibrinolytics
16		Antiplatelet /antithrombotic drugs
17-18	Drugs Acting on Respiratory System	Drugs for cough and bronchial asthma
19-20	Gastrointestinal drugs	Drugs for peptic ulcer
21		Antiemetic drugs
22	Antimicrobial Drugs	Concepts of chemotherapy, classification of chemotherapeutic drugs and general consideration
23		Sulphonamides and Cotrimoxazole
24		Quinolones and fluoroquinolones
25-27		Beta -Lactam Antibiotics
28-29		Tetracyclines and Chloramphenicol
30		Aminoglycoside antibiotics
31		Macrolide antibiotics
32		Antitubercular drugs
33		Antileprotic drugs
34		Antifungal drugs

35-36		Antiviral drugs
37-38		Antimalarial drugs
39	Hormones and Related Drugs	Thyroid hormones and thyroid inhibitors
40		Corticosteroids
41-42		Insulin, Oral Hypoglycaemic drugs and glucagon

Evaluation Scheme:

No.	Evaluation Component	Duration	Weight-age (%)	Date and Time	Nature of Component
1	Mid semester Exam	90 min	35	-	CB
2	Continuous Assessment*		20		
5	Comprehensive Exam	180 min	45	7/12 FN	CB /OB

*Continuous assessment will be based on theory covered in class. Topics and number will be announced in the class. It will be in terms of home assignments, tutorials, projects, laboratory, viva- voce and presentation/ seminars.

Attendance: Although attendance is not compulsory, regularity in theory classes will be decisive factor during grading, especially in borderline cases.

Chamber Consultation Hour: To be announced in the class.

Make-up policy: Generally make-up will be considered for regular students only (80% attendance in lecture classes). It is solely dependent on the "genuineness" of the circumstances. The make-up application should be personally given to instructor-in-charge.

Notices: Concerning this course will be displayed on Pharmacy Group notice board only.

Instructor-in-Charge
PHA F341