FIRST SEMESTER 2016– 2017

Course Handout (Part I)

In addition to part I (general handout for all courses appended to the Time Table), this portion gives further specific details regarding the course.

Course No. : **PHA F 415**
Course Title : **Pathophysiology**
Instructor-In-Charge : **Rajeev Taliyan**

Team of Instructors : **NA**

1: Course Description:

This subjects covers physiological changes due to injury, disorders and disease. Study of important classes of disorder and diseases, including the progress, symptoms and mechanisms of action, therapeutic uses diagnostic and toxic manifestations.

Scope and objective of course: This course is intended to impart the knowledge regarding the physiological and pathopysiological changes at cellular and molecular levels in various disorders/diseases.

2: Text book (TB): Pathology of disease-An introduction to clinical medicine. Stephen J Mcphee et al. McGraw-Hill, New Delhi,3rd Edition,2000.

Reference Book:1: Pathological Basis of Disease: S.L Robbins and R.S Cotran and vinay Kumar abbas , N. Fausto, 7th Edition, Elsevier,2004

2: Pathopysiology made incredibly Easy by springhouse, Michal Shaw,Lippincott, willium and willkins publisher,2nd edition

3: Pathopysiology: clinical concepts of disease process by sylvia andersion, 6th edition , 2002

3:COURSE PLAN: Theory Components

Lect. No.	Learning Objectives	Topics to be covered	Section No. (TB) /RB
1-5	General Introduction and aspect of Pathophysiology	Introduction to Patho-physiology, Causes of Cellular injury, pathogenesis, Cellular adaptation	1-3, 2 (RB)
6		Hypoplasia, Hyperplasia, Atrophy, Hypertrophy	
7		Reversible and irreversible cell injury	
8-10	Pathophysiology of inflammation	Basic process and Mechanisms involved in the process of inflammation and repair: Alterations in vascular permeability and blood flow, mediators of inflammation, brief outline of the process of repair.	2, 3 (RB)
11-12	Pain and Joint disorders	Physiology of pain : Rheumatoid arthritis and gout	28
13-15	Neoplasia	Mol. and biochemical basis of cancer, colon, breast and testicular cancer	5
16-20	Pathophysiology of cardiac Disorders	Basic pathological changes, molecular and cellular mechanisms involved in hypertension, angina, and myocardial infarction	10,12
21-22	Pathophysiology of G.I.T diseases	Ulcer, Inflammatory Bowel Disease, Pancreatitis	13
23-26	Pathophysiology of diseases of microbes/Viral	General Introduction to antimicrobial agents	
27-28		Basic pathological changes in Tuberclosis, Leprosis, UTI infection and their management.	

29-30		General aspect of STD and AIDS disease	8
31-36	Pathophysiology of CNS Disorders	Pathological basis and molecular changes in Epilepsy, psychosis, depression and Parkinson,s diseases	7, 28 (RB)
37-40	Blood Disease	RBC, platelet and WBC disorder, Anemia,	6,13 (RB)

Evaluation Scheme:

S. No.	Evaluation Component	Duration	Weightage (%)	Nature of Component	Date
1.	Mid-Test	90 min	30	CB	8/10 2:00 - 3:30 PM
2	Comprehensive	180 min.	40	CB & OB	8/10 2:00 - 3:30 PM
3	Continuous assessments*		30	CB & OB	

MID.- SEM. grading will be done whenever about 30- 35% of the evaluation components are completed. Information provided in class, text material and reference material in the same order would be deemed as correct in relation to all evaluation components.

NOTE :

* Quiz, class test, seminar, project and case studies, interpretation of data and their analysis, may form a part of continuous assessments.

* It may also include a viva and or a seminar presentation. However all assignments/reports (final, complied) should be completed and submitted to instructor in charge on time**.** It is necessary that all students **stick to time schedule and DO NOT postpone submission** of assignments / reports so as to prevent extra load during last two weeks of class work.

Meet I/C for more clarifications.

6. Reading Assignments :

Students are advised to read, collect additional information on the above mentioned topics as per given schedule. Revision of basic principles of anatomy, physiology and pharmacology including medicinal chemistry is necessary for case study related analysis and intrepretation.

7. Chamber consultation hours : (**3121-K**) ; To be announced in class.

8. Notices : Notices concerning the course will be displayed on the Pharmacy Group N.B. only.

9. Make-Ups :

Make-Ups are not given as a routine. It is solely dependent upon the GENUINENESS OF THE CIRCUMSTANCES under which a student fails to appear in a scheduled evaluation component. In such circumstances, prior permission should be obtained from the Instructor-in-Charge. IN NO CASE THE MAKE-UP APPLICATION BE SLIPPED INSIDE THE CHAMBER OF THE INSTRUCTOR-IN-CHARGE. The decision of the Instructor-in-Charge in the above matter will be final.

Instructor - in -Charge

PHA F 415