



Instruction Division

Date: 05/01/2016

Second- SEMESTER 2015-2016
Course Handout (Part II)

Course No. : PHA F 214

Course Title : Anatomy, Physiology and Hygiene

Instructor-in-charge : Dr. Rajeev Taliyan

Team of Instructors : Dr. Anil K Gaikwad, Almesh K, Santosh, Yeshwant K, Nisha Sharma

1. Course Description:

Anatomical study of the important organs of human body; physiology of various functional systems of human body; general principles of personal and community hygiene and prevention of communicable diseases.

2. Scope and Objectives:

This course imparts knowledge of anatomy (the study of internal structures of the human body and their inter-relationships) and physiology (study of functions of various structures and organ systems of the human body) in healthy and diseased states. It also deals with general principles of personal and community hygiene for the prevention of various communicable diseases.

3. Text book: Marieb, Elaine N, Essentials of Human Anatomy & Physiology, Pearson

Education, 8th Edition, 2005.

4. Reference Books:

R-1: Taylor DJ, Green NPO and Strout (eds.) Biological Science, 3rd Edition, Cambridge

University Press, London, 2000.

R-2: Guyton & Hall, Textbook of Medical Physiology, 9th edition, WB Saunders

Company, (Indian edition), 1998.

R-3: Gerard J. Tortora, Bryan H. Derrickson Principles of Anatomy and Physiology, 12th Edition: 2011

R-4: Park K, Textbook of Preventive and Social Medicine, 16th Edition, M/s Banarasidas





Bhanot Publications, India, 2000.

5. Course Plan: Theory Component

Lect. No.	Learning Objectives	Topics to be covered	Chap/Sec No. (Book)
1 -2	Overview of the cellular basis of life	Definition, Scope and common terms used in Anatomy and Physiology, Cell: Parts and their functions, Tissue: Types, differences, characteristics and properties of tissues	I, III
3-6	Blood	Composition and functions of blood, Plasma proteins, RBC, Hb, WBC, Platelets; and the related disorder	XVII
7-10	Cardiovascular system	Anatomy of heart, Physiology of heart, Blood vessels, Blood pressure, ECG, MI & thrombosis	XVIII, XIX
11-13	Digestive system	Organs of digestive system, Other allied organs, Process of digestion of food	XXIII
14-15	Respiratory system	Organs of Respiratory system, Process of respiration	XXII
16-17	Endocrine system	General properties of endocrine glands and hormones, Pituitary gland, Thyroid gland, Adrenal gland, Pancreas and its related disorders.	XVI
18-19	Reproductive system	Male reproductive system, Female reproductive system, Sexual Transmitted Disease (STD).	XXVII
20-21	Urinary system	Anatomy of urinary system, Urine formation and diseases of kidney	XXV
22-26	Nervous system	General aspect of Neurology, Central Nervous System, Peripheral Nervous System, Autonomic Nervous System	XI, XII, XIII, XIV





27-29	Special senses	Special senses-Vision, Special senses-Hearing, Taste, and Smell	XV
30	Hygiene	Air borne diseases and Insect borne diseases, Water borne diseases	R-4:Book No 3: Chapter 5.

6. Evaluation Scheme:

EC No.	<i>Evaluation Component</i>	<i>Duration</i>	Weightage (%)	<i>Date & Time</i>	Remarks
1.	Midterm Test	90 min	30	16/3 2:00 -3:30 PM	CB
2	Continuous assessment *	-	30	Continuous	-
3	Compre. Exam.	180 min	40	9/5 FN	OB + CB

* Continuous assessment will be based on theory covered in the class. It will be in terms of tutorial, Quiz, home assignments, projects, laboratory, viva-voce and class participation

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

8. Chamber Consultation Hour: To be announced in the class.

9. Make-up policy: Generally make-up will be considered for regular students only.

10. Notices: Concerning this course will be displayed on Pharmacy N. B.

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