



Department of pharmacy

Paytaxt Technical Institute

Subject: Clinical Pharmacy

Course Book – *1st semester*

**Lecturer's name: Zana A. Mustafa(theory)+ Hiwa Ghafur
(Practical)**

Academic Year: 2020/2021

13. Forms of teaching

Theory: lecture halls with computers equipment for lecture presentations, white board, overhead projector, posters

Laboratory practice: balance for weighing, dropper for drug administration, gloves, white coat,, white board, computer with equipment for PowerPoint presentations, posters

General: library, computer suite with internet access

14. Assessment scheme

Student performance	Midterm exam	Final exam	Total annual marks
Written theoretical test	15%	25%	40%
Practical lab. skill	25%	35%	60%
Total marks	40%	60%	100%

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15. Student learning outcome:

During their study the students purchase knowledge about the clinical face of a disease and its management and they learn to join the properties of drugs with the clinical information about diseases. They use their knowledge to maximize the effect, minimize the risks and optimize compliance in the individual patient. Having finished this subject the students should be able to judge basic indications and contraindications of the drugs used in these particular diseases.

16. Course Reading List and References:

- A text book of clinical pharmacology and therapeutics by James M. Ritter, Leonel D.Lewis, Timothy GK Mant and Albert Fero.
- „Principles of pharmacology. The pathophysiologic basis of drug therapy”, Eds. D.E. Golan, A.H. Tashijan, Jr., E.J. Armstrong, A.W. Armstrong (3rd ed.) Lippincott Williams & Wilkins 2012
- “Brody’s human pharmacology molecular to clinical” Eds. K.P. Minneman, L. Wecker (4th ed.) Elsevier, Philadelphia 2005.
- “Goodman & Gilman’s The pharmacological basis of therapeutics” Eds. L.L. Brunton, J.S. Lazo, K.L. Parker (11th ed.) McGraw-Hill Companies, USA 2006

17. The Topics:

Week	Unit	Outline	No. of Hours
1 st		Introduction of clinical pharmacy	2
2 nd		Pharmacotherapy of infection diseases of the respiratory and urinary tracts	2
3 rd		Pharmacotherapy of insomnia	2
4 th		Pharmacotherapy of benign prostatic hyperplasia	2
5 th		Principles of the rational use of drugs	2
6 th		Pharmacotherapy of gastric esophageal reflux disease (GERD) and peptic ulcer	2
7 th		Pharmacotherapy of diabetes mellitus (DM)	2
8 th		Pharmacotherapy of thyroid disease	2

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9 th		Pharmacotherapy of congestive heart disease	2		
10 th		Pharmacotherapy of coronary heart disease (CHD)	2		
11 th		Pharmacotherapy of arterial hypertension	2		
12 th		Pharmacotherapy of atherosclerosis, hyperlipidemia	2		
13 th		Pharmacotherapy of asthma bronchial (AB) and chronic obstructive pulmonary disease (COPD)	2		
14 th		Pharmacotherapy of pain	2		
15 th		Pharmacotherapy of deep venous thrombosis	2		
15 WEEKS			30		

18. Practical Topics (If there is any)

Week	Unit	Outline	Number of Hours	
			Lab. Application	Clinical Practice
1 st		Introduction: definition, historical perspective, branches and scope of the subject of pharmacology and its relation with other medical disciplines	2	
2 nd		Nature and sources of Drugs, Drug nomenclature and dosage forms	2	
3 rd		Routes of drugs' administration; advantages and disadvantages of different routes	2	
4 th		Factors affecting drug action and doses, how to prolong or shorten the drug action and effects	2	
5 th		Side effect and Adverse effects	2	
6 th		Drug interactions	2	
7 th		Agents used to treat anemias and haematopoietic growth factors	2	
8 th		Antifungal agents	2	
9 th		Anthelmintic agents	2	
10 th		Oral contraceptives	2	
11 th		Drugs acting on uterus	2	

12th		Vitamins	2	
13th		Case study	2	
14 th		Case study	2	
15th		Case study	2	
Total			30	

19. Examinations:

Theoretical:

Type of question	Example
Enumerate the following	Beta blockers (Atenolol)
Give an example	1. Diuretic () 2. Angiotensin II receptor blockers ()
Answer the following	1. Enumerate the main points of non pharmacological Treatment of hypertension
Quiz	Define hypertension and give an example of antihypertensive agent

Practical:

Type of question	Example
	1. Define vitamins and enumerate water soluble vitamins

20. Extra notes:

21. Peer review

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