

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Pharmaceutical Chemistry 4
Course number	PHCH5217
Faculty	
Department	
Course type	Major Needs
Course level	5
Credit hours (theoretical)	2
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

- 1 - Identifying categories of certain classes of drugs and their efficacies
- 2 - Recognizing drugs affecting different targets based on physiological systems
- 3 - Ability to interpret SAR
- 4 - This course is designed as continuation of pharmaceutical chemistry 2 prerequisite

Course Contents

- 1 - Antihyperlipidemic Agents
- 2 - Anticoagulants
- 3 - Thyroid Hormones
- 4 - Antithyroid Drugs
- 5 - Diuretics -
- 6 - Osmotic diuretics and mercurials
- 7 - Carbonic anhydrase inhibitors-
- 8 - Thiazides and thiazides-like derivatives-
- 9 - Loop diuretics and potassium-sparing diuretics-
- 10 - Synthetic Hypoglycemic Agents-
- 11 - Sulfonylureas
- 12 - Biguanides
- 13 - New hypoglycemic agents
- 14 - :Local anesthetics Development, SAR, classification
- 15 - benzoic acid esters derivatives
- 16 - Anilide derivatives and others
- 17 - Antihistamines : H1- antagonist
- 18 - H2-antagonist
- 19 - PPI
- 20 - Agents Treating Bone Disorders
- 21 - Diseases of Bone Tissue Utilizing Approved Drug Therapies
- 22 - Drugs Used to Treat Diseases of the Bone
- 23 - Hormone Therapy
- 24 - Steroid hormones
- 25 - :Vitamins
- 26 - Lipid soluble vitamins -
- 27 - Water soluble vitamins-

Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
med.term exam.1		25
med.term exam.2		25
Final exam.		50

Books and References

Recommended books	Wilson and Gisvolds Textbook of Organic Medicinal and Pharmaceutical, by Wilson , Beale, Block ,andGisvold, 11ed. Lippincott Williams& wilkins , ISBN:0781734819
Other References (Periodical, web sites, etc.)	Foyes Principles of Medicinal Chemistry by Thomas I lemke, David A williams Lippincott Williams &Wilkins; 6 edition ISBN: 0781768799 Burgers Medicinal Chemistry and Drug Discovery , Drug Discovery and Drug Development Wiley-interscience;6 edition ISBN:0471370282