Republic of Iraq The Ministry of Higher Education & Scientific Research



University: Kufa College: pharmacy

Department: Pharmacognosy

Stage: Third stage

Lecturer name: Samer Ali

Hasan

Academic Status: Lecturer

assistant

Qualification: M.Sc. in pharmaceutical Chemistry Place of work: University of Kufa- Faculty of Pharmacy

Course Weekly Outline

Course Instructor	Lecturer assistant Samer Ali Hasan					
E_mail	Samra.hasan@uokufa.edu.iq					
Title	Pharmacognosy					
Course Coordinator	Pharm:ognosy /					
	This course is intended to study chemistry of other natural					
Course Objective	products namely alkaloids and antibiotics. Also this course					
	includes studying phytotherapy & tissue culture techniques					
	utilized for production of natural products.					
	Study the techniques of extraction, separation, and					
Course Description	identification of constituents isolated from natural sources,					
	using microscopes and chromatographic methods					
Textbook	Robbers JE, Speedie MK, Tyler VE (Eds.); Pharmacognosy					
	and Pharmacobiotechnology; the latest edition.					
	Michael Heinrich, Joanne Barnes; Fundamentals of					
	Pharmacognosy & Phytotherapy.					
D 0	William Charles Evans, Daphne Evans; Trease and Evans'					
References	Pharmacognosy (16th Edition).					
Course Assessment	Term Tests	Laboratory	Quizzes	Project	Final Exam	
	As (35%)	As (15%)	As (10%)		As (40%)	
General Notes						

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Course weekly Outline

week	Date	Topics Covered	Lab. Experiment	Notes
			Assignments	
1	23-9-1014	Introduction: General biosynthesis pathways of secondary metabolites	Carbohydrates	
2	30-9-2014	Carbohydrates	Carbohydrates	
3	7-10-2014	Glycosides: Biosynthesis, physical and chemical properties	Cardio-active glycosides	
4	14-10-2014	Cardiac glycosides	Cardlio-active glycosides	
5	21-10-2014	saponin glycosides	Anthraquinone glycosides	
6	28-10-2014	anthraquinone glycosides; flavonoid glycosides	Anthraquinone glycosides.	
7	4-11-2014	Cyanophore glycosides	Saponin glycosides	
8	11-11-2014	Isothiocyanate glycosides; aldehyde glycosides	Saponin glycosides	
9	18-11-2014	Alcoholic glycosides; phenolic glycosides; lactone glycosis; coumarins and chromones	Tannins	
10	25-11-2014	Resins and resin combination; tannins	Volatile oils	
11	2-12-2014	Lipids: fixed oils and waxes	Isolation of pipenine from black pepper	
12	9-12-2014	Volatile oils: Introduction; chemistry of volatile oils; biosynthesis of volatile oils.	Isolation of pipenine from black pepper	
13	16-12-2014	Hydrocarbons as volatile oils; alcohols as volatile oils; aldehydes as volatile oils	Isolation of belladonna alkaloids and their identification	
14	23-12-2014	Ketones as volatile oils; Phenols as volatile oils; Oxides as volatile oils; Ester as volatile oils; Phenolic ethers as volatile oils	Isolation of belladonna alkaloids and their identification	

15	30-12-2014	Non- medicinal toxic plants	Isolation of caffeine from					
16	6-1-2014	Vitamins and Amino acids	tea Isolation of caffeine from					
10	0-1-2014	, 100111111 WILL 1 11111111 WEIGH	tea					
Half-year Break								
17	17-2-2015	Alkaloids: Introduction; Isolation of <i>Peganum</i>						
		Physical and chemical	harmala alkaloids					
40	010001	properties	I I d' C D					
18	24-2-2015	Pyridine, piperidine alkaloids	Isolation of <i>Peganum</i> harmala alkaloids					
19	3-3-2015	Tropane alkaloids	Preparation of Khellin					
20	10-3-2015	Quinoline alkaloids	Preparation of Khellin					
20	10-3-2013	Quinoime aixaioias	Treparation of Timemin					
21	17-3-2015	Isoquinoline alkaloids	Flavonoids of <i>Ruta</i>					
22	24.2.2015	Imidazole alkaloids; indole	graveolens Flavonoids of Ruta					
22	24-3-2015	alkaloids	graveolens					
23	31-3-2015	Steroidal alkaloids; lupinane alkaloids	Extraction of hesperidin					
24	7-4-2015	Alkaloidal amines; purine alkaloids.	Extraction of hesperidin					
25	14-4-2015	Antibiotics: Natural sources	Isolation of pectin					
26	21-4-2015	biosynthetic pathways	Isolation of pectin					
27	28-4-2015	Isolation and purification.	Isolation of citric acid from					
			lemon juice					
28	5-5-2015	Phytotherapy: Introduction &	Isolation of citric acid from lemon juice					
29	12-5-2015	principles Medicinal plants in selected	Isolation of					
29	12-3-2015	health care systems.	Podophyllotoxin from Podophyllum emodi; Isolation of Rotenone from Lonchocarpus Spp.					
30	19-5-2015	Medicinal plants in selected health care systems	Isolation of Podophyllotoxin from Podophyllum emodi; Isolation of Rotenone from Lonchocarpus Spp.					
31	26-5-2015	Important natural products & Isolation of <i>Peganum</i> phytomecines used in pharmacy & medicine Isolation of <i>Peganum</i> harmala alkaloids						
32	2-6-2015	Important natural products & phytomecines used in pharmacy & medicine	Isolation of <i>Peganum</i> harmala alkaloids					

Instructor Signature:

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