Philadelphia University

Faculty: Pharmacy

Department: Pharmaceutical Science

Academic Year: 2021\2022



Approved Date: 10\10\2021

Issue: 1

Credit Hours: 1 hr

Course Syllabus

Bachler:

Course Information

Course No.	Course Title			Pre	requisite	
0510222	Pha	Pharmacognosy and phytochemistry Practical			0510210	
	Course Type			me	Room No.	
🔲 Univirsity Re		Fuclty Requirement	Sunday:		406	
📕 Major Requi	rement	□ Elective ■ Compulsory	8:00-9:45			
			2:15-4:00			
			Monday:			
			8:00-9:45			
			2:15-4:00			
			Tuseday:			
			2:15-4:00			
			Wednesday:			
			8:00-9:45			
			2:15-4:00			

Instructure Information

Name	Office No.	Phone No.	Office Hours	E-mail
Coordintor:				
Dr.Manal alhusban Lecturer:				malhusban@philadelphia.edu.jo
Eman alshahrori			Sunday-Thursday	eshahrorri@philadelphia.edu.jo
	616	Ext. 2359	(12-1)	

Course Delivery Method

Blended	Online P		hysical	
Learning Model				
Demonsteres	Synchronous	Asynchronous	Physical	
Percentage			100%	

The course is designed to provide the student with basic information about practical pharmacognosy and phytochemi microscopical examination for the different plant parts, extraction and identification for; anthraquinone, saponin, anthocyanins and cardiac glycosides from pharmaceutical product, detection for alkaloid. Application of thin layer chromatography for volatile oil or Rutin and detection of the isolated spots by appropriate spraying reagent.

Number	Outcome	Correspondi ng Program Outcomes	Corresponding Competencies
	Knowledge		
K1	To learn the student basic information about Practical pharmacognosy and phytochemistry, including quality control using microscopy.	K _p 1	C1
K2	To identify different medicinal plants part including: root, leaves, barks, fruit and seeds in comparison with monographic data provided by pharmacopeias.	K _p 1	C1
K3	The students well practice different extraction method according to the chemical nature of phytochemical groups existed in medicinal plant or pharmaceutical product.	K _p 1	C1
K4	Identification of the extract is also done by chemical method provided by pharmacopeia or literature data.	K _p 1	C1
	Skills		
S1	To acquire basic skills in using the microscope to identify plant powder using different mounting agent	$S_p 2, S_p 3, S_p 6$	C8,C9,C12
S2	Practice the knowledge gained in organic chemistry in the extraction of different phytochemical plant material according to solubility in suitable solvent relying on the fact that like dissolve like.	S _p 2,S _p 3, S _p 6	C8,C9,C12
83	Detection of the extracted phytochemical groups by different chemical methods and TLC profiles supported by pharmacopeia.	S _p 2,S _p 3, S _p 6	C8,C9,C12

Course Learning Outcomes

Learning Resources

Course Textbook	Trease and Evans' Pharmacognosy By W C Evans, 16 th Edition (2009). Saunders; ISBN: 0702026182
Supporting References	- By Jean Bruneton (1995), English edition. Levoisier Publishing, Paris;

	ISBN: 1898298130 The above textbooks cover the course material in detail. However, additional practical tips, examples and conclusions are discussed in details by the lecturer and the student will be responsible for the additional material
Supporting Websites	
Teaching Environment	Classroom 📕 laboratory 📕 Learning Platform 🗌 Other

Meetings and Subjects Time Table

Week	Торіс	Learning Method*	Task	Learning Material
1	a. Vision and Mission of Faculty of pharmacy.b. Course syllabus.c. Safety rules	Lecture		Vision and Mission of Faculty of pharmacy Course syllabus
2	Introduction to the microscopy + General mounting reagents	Flipped learning Practical	Report Quizes	Lab manual
3	Microscopical identification for starch +Calcium oxalate	Flipped learning Practical	Report Quizes	Lab manual
4	Microscopical identification for Ginger root + cinnamon barks	Flipped learning Practical	Report Quizes	Lab manual
5	Microscopical identification for Senna leaves + chamomile flower	Flipped learning Practical	Report Quizes	Lab manual
6	First exam			
7	Identification for alkaloid by general test and specific test (first part).	Flipped learning Practical	Report Quizes	Lab manual
8	Identification for alkaloid by microcrystalline test (second part)	Flipped learning Practical	Report Quizes	Lab manual
9	Practical exam			
10	Extraction and identification for Anthraquinone glycosides	Flipped learning Practical	Report Quizes	Lab manual
11	Second exam			

	Methods of extraction	Flipped	Report	
12		learning Practical	Quizes	Lab manual
	Microscopical identification for Anise fruit +linseed	Flipped	Report	
13		learning Practical	Quizes	Lab manual
14	Final exam			

*Includes: lecture, flipped Class, project based learning, problem solving based learning, collaboration learning.

Course Contributing to Learner Skill Development

- Using poer point or any other relevant programs for preaparing presentations.
- Using Microsoft word to Doing homework and simple reports

Communication Skills

Students will develop the ability for group discussions and critical thinking

Application of Concept Learnt

The familiarity to carry out the various experiments, especially those dealing with extraction and identification of certain natural products. The ability to solve problems depending on a good basic theoretical achievement.

Assessment Methods and Grade Distribution

Assessment Methods	Grade	Assessment Time (Week No.)	Course Outcomes to be Assessed
Reports and evaluation	% 30	Continous	K1,S2,S3,S6
Quizzes	% 20	Continous	K1,S2,S3,S6
Practical exam	%10	9 th	K1,S2,S3,S6
Final Exam	% 40	14 th	K1,S2,S3,S6
Total	%100		

* Include: quizzes, in-class and out of class assignment, presentations, reports, videotaped assignment, group or individual project.

Alignment of Course Outcomes with Learning and Assessment Methods

Number	Learning Outcomes	Corresponding Competencies	Learning Method*	Assessment Method**
	Knowledge			
K1	To learn the student basic information about Practical pharmacognosy and phytochemistry, including quality control using microscopy.	C1	Flipped Learning	Report

				Quizes
			Practical	
K2	To identify different medicinal plants part including:	C1	Flipped	Report
	root, leaves, barks, fruit and seeds in comparison		Learning	
	with monographic data provided by pharmacopeias.			Quizes
			Practical	
K3	The students well practice different extraction method	C1	Flipped	Report
	according to the chemical nature of phytochemical		Learning	
	groups existed in medicinal plant or pharmaceutical			Quizes
	product.		Practical	
K4	Identification of the extract is also done by chemical	C1	Flipped	Report
	method provided by pharmacopeia or literature data.		Learning	
				Quizes
			Practical	
	Skills		1 1	
S1	To acquire basic skills in using the microscope to	C8,C9,C12	Flipped	Report
	identify plant powder using different mounting agent		Learning	
				Quizes
-			Practical	
S2	To Detect of the extracted phytochemical groups	C8,C9,C12	Flipped	Report
	by different chemical methods and TLC profiles		Learning	
	supported by pharmacopeia.			Quizes
			Practical	
S3	Practice the knowledge gained in organic chemistry in	C8,C9,C12	Flipped	Report
	the extraction of different phytochemical plant material		Learning	
	according to solubility in suitable solvent relying on the			Quizes
	fact that like dissolve like.		Practical	

*Include: lecture, flipped class, project based learning, problem solving based learning, collaboration learning. ** Include: quizzes, in-class and out of class assignments, presentations, reports, videotaped assignments, group or individual projects.

Policy	Policy Requirements		
Passing Grade	The minimum pass for the course is (50%) and the minimum final mark is (35%) .		
Missing Exams	 Anyone absent from a declared semester exam without a sick or compulsive excuse accepted by the dean of the college that proposes the course, a zero mark shall be placed on that exam and calculated in his final mark. Anyone absent from a declared semester exam with a sick or compulsive excuse accepted by the dean of the college that proposes the course must submit proof of his excuse within a week from the date of the excuse's disappearance, and in this case, the subject teacher must hold a compensation exam for the student. Anyone absent from a final exam with a sick excuse or a compulsive excuse accepted by the dean of the college that proposes the material must submit proof of his excuse within three days from the date of holding that exam. 		
Attendance	The student is not allowed to be absent more than (15%) of the total hours prescribed for the course, which equates to six lecture days (n t) and seven lectures (days). If the student misses more than (15%) of the total hours prescribed for the course without a satisfactory or compulsive excuse		

	accepted by the dean of the faculty, he is prohibited from taking the final exam and his result in that subject is considered (zero), but if the absence is due to illness or a compulsive excuse accepted by the dean of the college that The article is introduced, it is considered withdrawn from that article, and the provisions of withdrawal shall apply to it.	
Academic Integrity	Academic Philadelphia University pays special attention to the issue of academ integrity, and the penalties stipulated in the university's instructions a applied to those who are proven to have committed an act that violated in the university of the second seco	

Program Learning Outcomes to be Assessed in this Course

Number	Learning Outcome	Course Title	Assessment Method	Targeted Performance level

Description of Program learning Outcomes Assessment Method

Number	Detailed Description of Assessment		
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Assessment Rubric of the Program Learning Outcomes