Philadelphia University	PHILADELPHIA UNIVERSITY THE WAY TO THE FUTURE	**Approved Date: 13/10/2021**
Faculty:Pharmacy		**Issue:1**
Department:		**Credit Hours:1**
Academic Year:2022/2023	**Course Syllabus**	**Bachler:**

Course Information

Course No.	Course Title	Prerequisite
0510205	Pharmaceutical Organic Chemistry (1)	

Course Type	Class Time	Room No.
☐ Univirsity Requirement ☐ Fuclty Requirement ☐ Major Requirement ☐ Elective ■ Compulsory		

Instructure Information

Name	Office No.	Phone No.	Office Hours	E-mail

Course Delivery Method

☐ Blended	☐ Online	■ Physical
Learning Model		
Percentage	**Synchronous**	**Asynchronous**	**Physical**
		100%

Course Description

This course is complementary part to the theoretical lectures provided by the co-requisite course (0511121). The laboratory is divided into two parts; 1st part provides an adequate coverage of safety precautions and lab rules that students should strictly follow so that safety can be achieved in the lab and the experiments are designed to familiarize students with techniques commonly used in the organic laboratory. For identification, purification and separation of organic compounds. 2nd part includes chemical tests applied for identification of the main classes of organic compounds.

Number	Outcome	Corresponding Program Outcomes	Corresponding Copetencies
Knowledge			
K1	Learn the students Physical and chemical characteristics of organic compounds including determination of the solubility characteristics.	KP1,KP6	**C1**
K2	Learn the students The mechanism of organic reaction and functional groups	KP1,KP6	**C1**
K3	Learn the students various identification techniques including melting point determination.	KP1,KP6	**C1**
K4	Learn the students various separation techniques including Recrystalization, Extraction	KP1,KP6	**C1**
Skills			
S1	Adapt group discussion technique	SP6	**C12**
S2	learn handling of glassware in the lab.	SP2,SP3,SP9	**C8,C9.C12**
S3	learn the student the principle of team-work	SP2,SP3,SP9	**C8,C9,C12**
S4	Learn different lab techniques as filtration, Decolorization, Drying and Reflux.	SP2,SP3,SP9	**C8,C9,C12**
S5	Learn how to follow general policies and safety precautions in the lab.	SP2,SP3,SP9	**C8,C9,C12**

Course Learning Outcomes

Learning Resources

Course Textbook	. Organic chemistry 7th by John McMurry, edition 2008.
Supporting References	Introduction to organic Chemistry (Study guide and Solutions Manual). By Andrew Streitwieser,Clayton H. Heathercock, Edward M. Cosower. Publisher: Prentice Hall College Div; (December 1998) ISBN: 0130129909. Organic Chemistry. By T.W.Graham Solomons, 8th edition 2003. British Pharmacopoeia, U.S. Pharmacopoeia National formulary. The Mark Index, the Martindale 3. Remington: The Science and Practice of Pharmacy. By Alfonso R. Gennaro (Editor) 20th edition (December 15, 2000) Lippincott,Williams and Wilkins: ISBN: 0683306472. Organic chemistry 7th by John McMurry, edition 2008.
Supporting Websites	www. Philadelphia.edu. jo/pharmacy/rescurces. Html
Teaching Environment	☐ **Classroom** ■ **laboratory** ☐ **Learning Platform** ☐ **Other**

Meetings and Subjects Time Table

Week	Topic	Learning Method*	Task	Learning Material
1	1-Vision and Mession of faculty of pharmacy 2-Safety rules	lecture		**Lab manual**
2	Introduction of Laboratory rules & safety precautions	practical Flipped Learning		**Lab manual**
3	Physical and chemical characteristics of organic compounds including determination of the solubility characteristics	Practical Flipped Learning	**Report sheet** **Quiz**	**Lab manual**
4	Determination of melting point.	practical Flipped Learning	**Report sheet** **Quiz**	**Lab manual**
5	Boiling point and Distillation.	Practical Flipped Learning	**Report sheet** **Quiz**	**Lab manual**
6	Recrystallization, a purification technique for	practical	**Report**	**Lab manual**

	solids	Flipped Learning	**sheet** **Quiz**	
7	Extraction, a separation and isolation technique	practical Flipped Learning	**Report sheet**	**Lab manual**
8	Chemical tests for identification of alcohols	practical Flipped Learning	**Report sheet**	**Lab manual**
9	Chemical tests for identification of aldehydes & ketones	practical Flipped Learning	**Report sheet**	**Lab manual**
10	Chemical tests for identification of alkenes	practical Flipped Learning	**Report sheet**	**Lab manual**
11	**Final Exam**			

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

Course Contributing to Learner Skill Development

Using Technology
1-Using Microsoft teams program 2-Using moodle program.
Commuication skills
1-report writing 2-team working skills 3- group discussion technique
Application of Concept Learnt
Practical apppilcation of extraction ,distillation ,recrystallization techniques

Assessment Methods and Grade Distribution

Assessment Methods	Grade	Assessment Time (Week No.)	Course Outcomes to be Assessed
Quizzes	**% 20**	**Continous**	**K1,K2,K3,K4 S1,S2,S3**
Reports	**% 30**	**Continous**	**K1,K2,K3,K4 S1,S2,S3,S4**
Practical exam	**% 10**	**11th week**	**K1,K2 S1,S2,S3**
Final Exam	**%40**	**11th week**	**K1,K2,K3,K4 S1,S2,S3,S4,S5**
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	Learning Method*	Assessment Method**	Competencies
	Knowledge			
K1	Learn the students Physical and chemical characteristics of organic compounds including determination of the solubility characteristics.	Practical Flipped learning	Subjective Quiz Report	**C1**
K2	Learn the students The mechanism of organic reaction and functional groups	Practical Flipped learning	Subjective Quiz Report	**C1**
K3	Learn the students various identification techniques including melting point determination.	Practical Flipped learning	Subjective Quiz Report	**C1**
K4	Learn the students various separation techniques including Recrystalization, Extraction	Practical Flipped learning	Subjective Quiz Report	**C1**
	Skills			
S1	Adapt group discussion technique	Practical Flipped learning	Subjective Quiz Report	**C12**
S2	learn handling of glassware in the lab.	Practical Flipped learning	Subjective Quiz Report	**C8,C9.C12**

S3	learn the student the principle of team-work	Practical Flipped learning	Subjective Quiz Report	**C8,C9.C12**
S4	Learn different lab techniques as filtration, Decolorization, Drying and Reflux.	Practical Flipped learning	Subjective Quiz Report	**C8,C9.C12**
S5	Learn how to follow general policies and safety precautions in the lab.	Practical Flipped learning	Subjective Quiz Report	**C8,C9.C12**

*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.

Course Polices

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	Philadelphia University pays special attention to the issue of academic integrity, and the penalties stipulated in the university's instructions are applied to those who are proven to have committed an act that violates academic integrity, such as cheating, plagiarism (academic theft), collusion, intellectual property rights.