Course Specifications

University	Beni-Suef
Faculty	Pharmacy
Dept.	**Pharmaceutical Organic Chemistry**

1-Course Info.
Programme(s) on which the course is given: General Programme
Course Name and code No.: Pharmaceutical Organic Chemistry 1 (PC102)
Academic year/ Level: 2017-2018 / first year, first term
Credit hours: Lecture (2) hour + Practical (1) hour

2-Overall Aim of the Course

By the end of this course, the students should be able to provide a name (common and IUPAC) for any aliphatic organic compound, differentiate between aliphatic organic compounds, understand the chemical reactions for each chemical class, handle chemicals safely, and perform good laboratory practice.

3-Intended Learning Outcomes of the course (ILOs)

a. Knowledge and understanding

After completion of this course, the student should be able to:

a.1. Name any aliphatic organic compounds.

a.2. Identify physical properties of aliphatic organic compounds.

a.3. Explain mechanisms of reactions for aliphatic organic compounds.

b. Professional and Practical Skills

b.1. Use the appropriate laboratory equipments and chemicals in a safe way.

b.2. Select a suitable method to dispose chemicals safely.

c. Intellectual Skills **c.1. Design the appropriate method for synthesis of aliphatic organic compounds.** **c.2. Choose a method for identification of aliphatic organic compounds.** **c.3. Use chemicals safely.**
d. General and Transferable Skills **d.1. Construct plans of work and time tables.** **d.2. Solve different problems based on the available information.** **d.3. Work in groups.** **d.4. Develop information technology skills.**

4-Course Contents		
Topics	**No. of credit hours**	
	Practical	**Lectures**
Introduction	--	2
Alkanes	--	2
Alkenes	--	2
Alkynes	--	2
Alkyl halides	--	2
Alcohols	1	2
Ethers	--	2
Amines	--	2
Carbonyl compounds	1	2
Carbonyl compounds (Cont.)	1	2
Carboxylic acids	2	2
Carboxylic acid derivatives	1	2
Safety guidelines	1	--
- Preliminary tests for identification of unknown organic compounds. -Scheme for identification of organic compounds.	1	--
Mid-term sheet	1	--
phenols	1	--
Revision	1	--
Practical Exam	1	--

4-Course Contents		
Topics	**No. of credit hours**	
Total	12	24

5- Teaching and learning Methods

5.1. Conventional: (lectures and practical sessions)
5.2. Non-conventional: (Discussion, brain storming, home exercise, interacted learning)

6- Student Assessment Methods

a-Methods

6.1. Practical exams
6.2. Written exam
6.3. Oral exam
6.4. Quizzes
6.5. Take home assignments and exercises weekly

b- Assessment Schedule

Assessment 1: Assignments (reports/presentation weekly)
Assessment 2: Quiz 1 …… Week 6
Assessment 3: Practical mid-term exam … Week 8
Assessment 4: Quiz 2 …… Week 10
Assessment 5: Practical Exam…… Week 12
Assessment 6: Final written exam……week 13-14*
Assessment 7: Final oral exam……week 13-14*

* According to exams time table.

c- Weighting of Assessment Marks

Type of Assessment	Marks	Weight (%)
Quizzes	10	10%
Practical exam	25	25%
Final written exam	50	50%
Final oral exam	15	15%
Total	100	100%

8-List of References

a. Notes

Course note: Theoretical and Practical Notes by the department teaching staff, supplied by the

department secretaries.
b. Mandatory Books - Organic Chemistry, 6th ed., 2003, R. T. Morrison and R. N. Boyed. - Chemistry in the laboratory, Roberts, Julian L., 4th ed., 1997. - Systematic nomenclature in organic chemistry, Hellwinkel, D., 2001.
c. Suggested Books: ---------
d. Journals: ----------

Course Coordinator:

Head of department: **Date:**