



Course Specification

— (Bachelor)

Course Title: : **COMPUTER IN PHARMACEUTICAL SERVICES**

Course Code: **PHCP 252**

Program: **PHARMACEUTICAL SCIENCES**

Department: **CLINICAL PHARMACY**

College: **PHARMACY**

Institution: **NAJРАН UNIVERSITY**

Version: **3**

Last Revision Date: 20/08/2024

Table of Contents

A. General information about the course:	3
B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods	4
C. Course Content	5
D. Students Assessment Activities	6
E. Learning Resources and Facilities	6
F. Assessment of Course Quality	7
G. Specification Approval	7





A. General information about the course:

1. Course Identification

1. Credit hours: (1+1)

2. Course type

- A. ☐ University ☒ College ☐ Department ☐ Track ☒ Others Program
- B. ☒ Required ☐ Elective

3. Level/year at which this course is offered: (4th Level/ 2nd year)

4. Course general Description:

Pharmacists and pharm techs need to be computer savvy, being able to access e-mail and word processing documents (such as the Microsoft Office Suite of tools which includes Word, Excel, PowerPoint, Publisher, and more).

5. Pre-requirements for this course (if any):

None

6. Co-requisites for this course (if any):

None

7. Course Main Objective(s):

Develop skills to access e-mail Develop word processing documents such as the Microsoft which includes Word, Excel, PowerPoint, Publisher, and more.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	45	100
2	E-learning		
3	Hybrid <ul style="list-style-type: none"> Traditional classroom E-learning 		
4	Distance learning		



3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	15
2.	Laboratory/Studio	30
3.	Field	
4.	Tutorial	
5.	Others (specify)	
Total		45

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Demonstrate the concepts and fundamental aspects to develop the skills to use computer and its application	K1	Lectures,	Written exam, Assignment
2.0	Skills			
2.1	Integrate pharmaceutical, resources to provide accurate recommendations and creative solutions for complex problems	S1	Lectures, Problem-based learning	Assignment, Presentation
2.2	Utilize appropriate information technologies to optimize safe medication use and patient care	S4	Lectures, Problem-based learning	Assignment, Presentation
3.0	Values, autonomy, and responsibility			
3.1	Engage in self-learning practices and inter-professional	V3	Practice sessions	Assignments Presentations



Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
	healthcare education activities		Poster presentation and seminars.	
3.2	Demonstrate leadership, entrepreneurial and managerial skills, in addition to accountability, confidence, reflective reasoning and independent thinking to respond to routine or unanticipated circumstances	V4	Practice sessions Poster presentation and seminars.	Assignments Presentations

C. Course Content

No	List of Topics	Contact Hours
1.	Computer concepts and their applications	2
2.	Types of computers	3
3.	Computer systems	2
4.	Categories of computer systems	2
5.	Basic concepts of networking	3
6.	Application of computer science in pharmacy	3
Total		15
No	List of Topics (Practical)	Contact Hours
1	Introduction to Microsoft word	7
2	Introduction to Microsoft power point	8
3.	Introduction to Microsoft power point presentation	8
4.	Introduction to Microsoft Microsoft excel	7
Total		30



D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quizzes	Class test	10%
2.	Midterm	7-9	20%
3.	Assignments	10-12	20%
4.	Observation card	13-14	5%
5.	Final practical Exam	15-16	25%
6.	Final exam	16-18	20%
7.	Total		100%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	<p>1. Computer Applications in Pharmaceutical Research and Development</p> <p>2. Computer Applications in Pharmaceutical Research and Development 1st Edition</p>
Supportive References	
Electronic Materials	<p>http://lib.nu.edu.sa/DigitalLibrary.aspx</p> <p>www.rxlist.com</p>
Other Learning Materials	

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	
Technology equipment (projector, smart board, software)	
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Head of departments and students	Indirect Questionnaires (indirect)
Effectiveness of Students assessment	Faculty members and students	Indirect Questionnaires (indirect)
Quality of learning resources	Student peer reviewer	Direct Indirect
The extent to which CLOs have been achieved	Head of departments and students	Indirect Questionnaires (indirect)
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	CLINICAL PHARMACY DEPARTMENT COUNCIL
REFERENCE NO.	14460214-1057-00001
DATE	20-08-2024

