

Course Specifications

University	Beni-Suef
Faculty	Pharmacy
Dept.	Clinical pharmacy department

1-Course Info.**Programme(s) on which the course is given: Bachelor in pharmacy (Clinical pharmacy)****Course Name and code No.:** Oncology/ PP 908**Academic year/ Level:** 2022 -2023 Fifth level, semester 9**Credit hours:** Lecture (2) hour + Practical (1) hour

Domain	Competencies	Key elements
1	1.1.	1.1.1, 1.1.2, 1.1.4, 1.1.5, 1.1.7
2	2.1.	2.1.1
	2.3.	2.3.1
	2.4.	2.4.3
3	3.1.	3.1.4
4	4.2.	4.2.1

2-Overall Aim of the Course

After completing the course, the student should acquire sufficient knowledge of major concepts of pharmaceutical care of the cancer disease states, their pathophysiology, and the therapeutic skills in their management.

3- Learning Outcomes of the course (LOs)**Domain 1: Fundamental Knowledge**

- 1.1.1.1 Identify the concept of Oncology Therapeutics.
- 1.1.2.1 Describe the terms of chemotherapy, oncology supportive care and cancer types.
- 1.1.4.1 Describe the concept of chemotherapy drug interactions, adverse drug reactions, dosing monitoring safety and oncology supportive care.
- 1.1.5.1 Retrieve information to be able to prevent and solve toxicity problems from chemotherapy.
- 1.1.7.1. identify new lines helping in caring of cancer patients' health care.

Domain 2: Professional and Ethical care

- 2.1.1.1. perform responsibilities in compliance with the professional structure and the role of each member of the healthcare team.
- 2.3.1.1. Perform counseling with the patients about their prescribed chemotherapy and its rational use.
- 2.4.3.1. Solve different drug – drug and drug – disease interactions related with chemotherapy.
- 2.4.3.2. Create pharmaceutical plan for expected chemotherapy related adverse effects.

Domain 3: Pharmaceutical care

- 3.1.4.1. Effectively illustrate different pathological conditions of oncology with etiology m epidemiology, pathophysiology, lab diagnosis and clinical features and relate them to therapeutic approach.
- 3.1.4.2. Develop professional therapeutic decisions in light of the available clinical information.

Domain 4: Personal Practice

- 4.2.1.1. demonstrate effective communication skills verbally, non-verbally and in writing with professional health care team, patients and communities

4-Course Contents

week	Topic		No. of credit hours	
	Lecture	practical	Lecture	Practical
W1	Cancer pathophysiology	Chemotherapy 1	2	1
W2	Pancreatic Cancer	Chemotherapy 2	2	1
W3	CLL cancer	Chemotherapy 3	2	1
W4	AML cancer	Chemotherapy 4	2	1
W5	Melanoma	Quiz	2	1
W6	Prostate cancer	Pain in cancer	2	1
W7	Brain cancer	Bone marrow suppression	2	1
W8	Multiple myeloma	Oncology emergencies	2	1
W9	Breast cancer	Chemotherapy induced nausea and vomiting	2	1
W10	Lung cancer	Quiz	2	1
W11	Lymphoma	Protocols	2	1
W12	Colorectal cancer	Exam	2	1
Total			24+12	

5- Teaching and learning Methods

Non active teaching	Active teaching methods
5.1. Lectures [Blended learning: (60% in-person classroom at faculty halls and 40% online lectures on Google classrooms using upload lectures and videos)]	-Self-learning -Discussions - None graded assignments.
5.2. Practical laboratory sessions [Blended learning: (60% in-person classroom at faculty labs and 40% online pre-labs on Google classrooms using upload lectures and videos)]	

6- Teaching and learning methods for the students with disabilities

- Office hours
- Special meetings
- Non-graded exams

7- Student Assessment Methods

a- Matrix alignment of assessment methods/measured LOs:

Methods	Measured Los			
	Fundamental knowledge	Professional and I care	Pharmace care	Personal practice
Non-graded assignments	1.1.1.1./ 1.1.2.1./1.1.7.1.			
Periodical exams	1.1.1.1./ 1.1.2.1./1.1.7.1.		3.1.4.1./ 3.1.4.2.	
Practical exams	1.1.4.1./1.1.5.1	2.1.1.1./2.3.1.1/ 2.4.3.1./2.4.3.2.		
Written exam	1.1.1.1./ 1.1.2.1./1.1.7.1.	2.3.1.2./2.3.1.3./ 2.4.3.1./2.4.3.2	3.1.4.1./ 3.1.4.2.	
Oral exam	1.1.1.1./ 1.1.2.1./1.1.7.1.		3.1.4.1./ 3.1.4.2.	

b-Assessment Schedule

Type of Assessment	Weak
Non-graded assignments	5-10
Periodical Exams	7-12
Practical exam	12
Final Written exam	14-16
Final Oral exam	14-16

c- Weighting of Assessment Marks

Type of Assessments	Marks	Weight (%)
Written examination	50	50%
Oral examination	15	15%
Practical/laboratory work	25	25%
Periodic exam	10	10%
Total	100	100%

8-List of References

a. Notes

Course Notes: prepared by staff members of the department.

b. Essential Books

Abeloff, M., J. Armitage, J. Niederhuber, M. Kastan, and W. McKenna, *Review of clinical oncology*. Philadelphia: Churchill Livingstone, 2004.

c. Suggested Books

Tannock, I.F., R. P Hill, R.G. Bristow, and L. Harrington, *The basic science of oncology*. 2013: McGraw-hill.

TeCavalli, F., S.B. Kaye, H.H. Hansen, J.O. Armitage, and M. Piccart-Gebhart, *Textbook of medical*

oncology. 2009: CRC Press.

d. Journals

International Journal of Oncology

Journal of clinical oncology

Google classroom: <https://classroom.google.com/u/0/>

وحدة ضمان الجودة - كلية الصيدلة - جامعة بني سويف

Matrix of topics/LOs/Teaching methods

Topics			Course Los				Teaching Method
Lecture	Practical	Fundamental knowledge	Professional and Ethical care	Pharmaceutical care	Personal practice		
W1	Introduction	Chemotherapy 1	1.1.1.1/ 1.1.2.1/ 1.1.4.1.	2.3.1.1./ 2.3.1.2./ 2.3.1.3./ 2.4.3.1./ 2.4.3.2.	3.1.4.1./ 3.1.4.2.		Lectures and practical sessions
W2	Kidney Cancer	Chemotherapy 2	1.1.2.1./ 1.1.4.1./ 1.1.5.1./ 1.1.7.1.	2.3.1.1./ 2.3.1.2./ 2.3.1.3./ 2.4.3.1./ 2.4.3.2.	3.1.4.1./ 3.1.4.2.		Lectures and practical sessions
W3	Stomach cancer	Chemotherapy 3	1.1.2.1./ 1.1.4.1./ 1.1.5.1./ 1.1.7.1..	2.3.1.1./ 2.3.1.2./ 2.3.1.3./ 2.4.3.1./ 2.4.3.2.	3.1.4.1./ 3.1.4.2.		Lectures and practical sessions
W4	Liver cancer	Chemotherapy 4	1.1.2.1./ 1.1.4.1./ 1.1.5.1./ 1.1.7.1.	2.3.1.1./ 2.3.1.2./ 2.3.1.3./ 2.4.3.1./ 2.4.3.2.	3.1.4.1./ 3.1.4.2.		Lectures and practical sessions
W5	Melanoma	Quiz	1.1.2.1./ 1.1.7.1.	2.3.1.2./ 2.3.1.3.	3.1.4.1./ 3.1.4.2.		Lectures and practical sessions
W6	Prostate cancer	Pain in cancer	1.1.2.1./ 1.1.4.1./ 1.1.5.1./ 1.1.7.1.	2.1.1.1/ 2.3.1.2./ 2.3.1.3.	3.1.4.1./ 3.1.4.2.		Lectures and practical sessions
W7	Brain cancer	Bone marrow suppression	1.1.2.1./ 1.1.4.1./ 1.1.5.1./ 1.1.7.1.	2.1.1.1/ 2.3.1.2./ 2.3.1.3.	3.1.4.1./ 3.1.4.2.		Lectures and practical sessions
W8	leukemia	Oncology emergencies	1.1.2.1./ 1.1.4.1./ 1.1.5.1./ 1.1.7.1.	2.1.1.1/ 2.3.1.2./ 2.3.1.3.	3.1.4.1./ 3.1.4.2.		Lectures and practical sessions
W9	Breast cancer	Chemotherapy induced nausea and vomiting	1.1.2.1./ 1.1.4.1./ 1.1.5.1./ 1.1.7.1.	2.1.1.1/ 2.3.1.2./ 2.3.1.3.	3.1.4.1./ 3.1.4.2.		Lectures and practical sessions

W1 0	Lung cancer	Quiz	1.1.2.1./ 1.1.7.1.	2.3.1.2./ 2.3.1.3.	3.1.4.1./ 3.1.4.2.		Lectures and practical sessions
W1 1	Lymphoma	Protocols	1.1.2.1./ 1.1.4.1./ 1.1.5.1./ 1.1.7.1.	2.1.1.1./ 2.3.1.2./ 2.3.1.3.	3.1.4.1./ 3.1.4.2.		Lectures and practical sessions
W1 2	Colorectal cancer	Exam	1.1.2.1./ 1.1.7.1.	2.3.1.2./ 2.3.1.3.	3.1.4.1./ 3.1.4.2.		Lectures and practical sessions

Course Coordinator: Dr. Marwa Mohsen

Head of department:

Date: 9/2022

وحدة ضمان الجودة - كلية الصيدلة - جامعة بني سويف