

Graduation Project (PGP 617)

Program (s) on which the course is given:	Bachelor of Pharmacy
Department offering the program:	All Faculty Departments
Department offering the course:	All Faculty Departments
Academic year:	2022/2023
Approval Date:	September 2021

A. Basic Information

Course Title: Graduation Project

Course Code: PGP 617

Prerequisites: Completion of level 4

Students' Level/Semester: Level 5

Credit hours: 2(1+1)

Actual teaching hours per week:

Lectures: 1 hr/week

Practical: 2hr/week

Total: 3 hr/week

Teaching weeks: 12

B. Professional Information

1. Overall Aim of Course

This course includes research project and e-portfolio. The e-portfolio serves as a learning tool for self-assessment, self-awareness and lifelong learning and supports evidences of competency defined by established performance standards.

2. Learning Outcomes:

DOMAIN 1: FUNDAMENTAL KNOWLEDGE		
Competency	Key elements (Program Learning Outcomes)	Course learning outcomes
1-1 Integrate knowledge from basic and applied pharmaceutical and clinical sciences to standardize materials, formulate and manufacture products, and deliver population and patient-centered care	1-1-6- Utilize scientific literature, and collect and interpret information to enhance professional decision	1-Articulate knowledge from fundamental sciences to explain drugs' actions and evaluate their appropriateness, effectiveness, and safety in individuals and populations. 2- Collect and interpret information from scientific literature to enhance professional decision. 3- Identify and critically analyze newly emerging issues influencing pharmaceutical

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		industry and patient health care.
DOMAIN 2: PROFESSIONAL AND ETHICAL PRACTICE		
2-2 Standardize pharmaceutical materials, formulate and manufacture pharmaceutical products, and participate in systems for dispensing, storage, and distribution of medicines	2-2-4 Adopt the principles of pharmaceutical calculations, bio statistical analysis, bioinformatics, pharmacokinetics, and bio-pharmaceutics and their applications in new drug delivery systems, dose modification, bioequivalence studies, and pharmacy practice.	4- Apply the principles of pharmaceutical calculations, biostatistical analysis, bioinformatics, pharmacokinetics, and bio-pharmaceutics and their applications in new drug delivery systems, dose modification, bioequivalence studies, and pharmacy practice
2-3 Handle and dispose biologicals and synthetic/natural pharmaceutical materials/products effectively and safely with respect to relevant laws and legislations	2-3-1 Handle, identify, and dispose biologicals, synthetic/natural materials, biotechnology-based and radio-labeled products, and other materials/products used in pharmaceutical field	5- Identify the principles of various tools and instruments, and select the proper techniques for synthesis and analysis of different materials and production of pharmaceuticals
2-4 Actively share professional decisions and proper actions to save patient's life in emergency situations including poisoning with various xenobiotics, and effectively work in forensic fields.	2-4-4 Assess toxicity profiles of different xenobiotics and detect poisons in biological specimens	6- Evaluate toxicity and Detect poisons in different specimens.
2-5 Contribute in pharmaceutical research studies and clinical trials needed to	2-5-2 Retrieve, interpret, and critically evaluate evidence-based information needed in pharmacy profession	7- Integrate and critically evaluate evidence-based information needed in pharmacy profession.

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authorize medicinal products	2-5-3 Contribute in planning and conducting research studies using appropriate methodologies	8- Participate in planning and conducting research studies using appropriate methodologies.
DOMAIN 4: PERSONAL PRACTICE		
4-1 Express leadership, time management, critical thinking, problem solving, independent and team working, creativity and entrepreneurial skills	4-1-1 Demonstrate responsibility for team performance and peer evaluation of other team members, and express time management skills	9- Illustrate responsibility for team performance and peer evaluation of other team members 10- Express time management skills.
	4-1-2 Retrieve and critically analyze information, identify and solve problems, and work autonomously and effectively in a team	11- Work independently and effectively in a team. 12- Explore and critically analyze information, identify and solve problems
	4-1-3 Demonstrate creativity and apply entrepreneurial skills within a simulated entrepreneurial activity.	13- Apply skills as creativity and entrepreneurial skills.
4-2 Effectively communicate verbally, non-verbally and in writing with individuals and communities	4-2-1 Demonstrate effective communication skills verbally, non-verbally, and in writing with professional health care team, patients, and communities	14- Communicate effectively verbally and non-verbally with professional health care team.
	4-2-2 Use contemporary technologies and media to demonstrate effective presentation skills	15- Present data effectively using technology.
4-3 Express self-awareness and be a life-long learner for continuous professional improvement	4-3-1 Perform self-assessment to enhance professional and personal competencies	16- Express self-assessment to enhance professional and personal competencies
	4-3-2 Practice independent learning needed for continuous professional development	17- Be a life-long learner for continuous professional development.

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3. Teaching and Learning Methods

- 3.1. Self-learning
- 3.2. Group discussion
- 3.3. Problem solving.
- 3.4. Discussion.
- 3.5. Case study.

4. Student Assessment Methods

- 4.1. Class work to assess achievement of tasks of Graduation Project (GP) and e-Portfolio.
- 4.2. Thesis to assess knowledge, understanding and intellectual skills.
- 4.3. Oral presentation for to assess Graduation Project (GP) and e-Portfolio.

5. Assessment Schedule, Weighting of Assessments & responsible staff

• Semester work, During the semester	20%	GP Supervisor
• e-Portfolio Assessment, week 11	30%	GP Supervisor & Examiners
• Final assessment of (Thesis), week 13	30%	GP Supervisor & Examiners
• GP Presentation Assessment, week 13	20%	GP Supervisor & Examiners
Total	100%	

6. Facilities Required for Teaching and Learning

- Personal Computer with internet connection (available for each staff member).
- Different laboratory equipment.
- Books.
- Library equipped with Periodicals, Websites,etc

Course Coordinator: Prof. Dr. Amal Emad

Faculty Dean: Prof. Dr. Hanan Refaat

Department approval Date: September 2022

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Course Specifications
Matrix for Course Contents (Course LO's)
(Assessment of Teaching and Learning Methods)

Content	Competencies													Teaching and Learning Methods				Assessment methods			
	1-1	2-2	2-3	2-4	2-5	4-1	4-2	4-3					Self-learning	Group Discussion	Problem Solving	Discussion	Case Study	Class Work	Thesis	Oral Presentation	
	Key elements																				
	1-1-6	2-2-4	2-3-1	2-4-4	2-5-2	2-5-3	4-1-1	4-1-2	4-1-3	4-2-1	4-2-2	4-3-1									4-3-2
Course Learning Outcomes																					
	1,2,3	4	5	6	7	8	9,10	11,12	13	14	15	16	17								
Graduation project	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
e-portfolio			✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		✓	