

Graduation Project (PGP 018)

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

A. Basic Information

Course Title: Graduation Project

Course Code: PGP 018

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	1-1-6-1 Utilize scientific literature, 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 industry and patient health care.
DOMAIN 2: PROFESSIONAL AND ETHICAL PRACTICE			
2-2 Standardize pharmaceutical materials, formulate and manufacture pharmaceutical	2-2-4 Adopt the principles of pharmaceutical calculations, bio statistical analysis, bioinformatics, pharmacokinetics, and bio-	2-2-4-1 Apply basics of pharmaceutical calculations, bio statistical analysis, bioinformatics, pharmacokinetics, and bio-pharmaceutics in modifying drug delivery systems, dose adjustment,	4- Apply the principles of pharmaceutical calculations, biostatistical analysis, bioinformatics, pharmacokinetics, and

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products, and participate in systems for dispensing, storage, and distribution of medicines	pharmaceutics and their applications in new drug delivery systems, dose modification, bioequivalence studies, and pharmacy practice.	bioequivalence studies, and pharmacy practice.	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	2-3-1- 1 Handle, identify, and dispose biologicals, synthetic/natural materials, biotechnology-based and radio-labeled products, and other materials/products used in pharmaceutical field.	5- Recognize 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	2-4-4-1- Relate different toxicity profiles and detect poisons in biological specimens.	6- Evaluate toxicity and poisons in different specimens.

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2-5 Contribute in pharmaceutical research studies and clinical trials needed to authorize medicinal products	2-5-2 Retrieve, interpret, and critically evaluate evidence-based information needed in pharmacy profession	2-5-2 – 1 Retrieve, interpret, and critically evaluate evidence-based information needed in pharmacy profession.	7- Integrate and critically evaluate evidence-based information needed in pharmacy profession.
	2-5-3 Contribute in planning and conducting research studies using appropriate methodologies	2-5-3-1 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	4-1-1- 1 Demonstrate responsibility for creating and achieving shared goals regardless of position.	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	4-1-2-1 Work autonomously and effectively in a team, express peer evaluation and demonstrate time management skills.	11- Work independently and effectively in a team. 12- Explore and critically analyze information, identify and solve problems

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	4-1-3 Demonstrate creativity and apply entrepreneurial skills within a simulated entrepreneurial activity.	4-1-3- 1 Show creativity by applying entrepreneurial skills in simulated entrepreneurial projects.	13- Develop skills as creativity ad 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	4-2-1 – 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	4-2-2 - 1 Show effective presentation skills through the use of modern information technology and media 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	4-3-1- 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	4-3-2- 1 Develop self-learning skills as part of continuous professional development to stay updated on all arising issues.	17- Be a life-long learner for continuous professional development.

3. Teaching and Learning Methods

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- 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												
	Program Learning Outcomes																								
	1-1-6-1	2-2-4-1	2-3-1-1	2-4-4-1	2-5-2-1	2-5-3-1	4-1-1-1	4-1-2-1	4-1-3-1	4-2-1-1	4-2-2-1	4-3-1-1	4-3-2-1												
	Course Learning Outcomes																								
	1,2,3	4	5	6	7	8	9,10	11,12	13	14	15	16	17												
Graduation project	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
e-portfolio			✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				



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