Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic AccreditationAccreditation Department

Academic Program and Course Description Guide

2024

Introduction:

The educational program is a well—planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: .....

Faculty/Institute: .....

Scientific Department: .....

Academic or Professional Program Name: .....

Final Certificate Name: .....

Academic System: .....

Description Preparation Date:

File Completion Date:

Signature:	**Signature:**
Head of Department Name:	**Scientific Associate Name:**
Date:	**Date:**

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:

Approval of the Dean

1. Program Vision
Program vision is written here as stated in the university's catalogue and website.
2. Program Mission
Program mission is written here as stated in the university's catalogue and website.
3. Program Objectives
General statements describing what the program or institution intends to achieve.
4. Program Accreditation
Does the program have program accreditation? And from which agency?
5. Other external influences
Is there a sponsor for the program?

6 Program Structure				
Program Structure	Number of Courses	Credit hours	Percentage	Reviews•
Institution Requirements				
College Requirements				

Department Requirements				
Summer Training				
Other				

This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical

8. Expected learning outcomes of the program

Knowledge

Learning Outcomes 1	Learning Outcomes Statement 1

Skills

Learning Outcomes 2	Learning Outcomes Statement 2
Learning Outcomes 3	Learning Outcomes Statement 3

Ethics

Learning Outcomes 4	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

9. Teaching and Learning Strategies

Teaching and learning strategies and methods adopted in the implementation of the program in general.

10. Evaluation methods

Implemented at all stages of the program in general.

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	**Lecturer**

Professional Development

Mentoring new faculty members

Briefly describes the process used to m

12. Acceptance Criterion

(Setting regulations related to enrol admission or others)

14. Program Development Plan

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4

- **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

Course Description Form

1. Course Name: clinical pharmacy
2. Course Code: PhCpii4B00048(2+2)
3. Semester / Year: 2nd course/2023-2024
4. Description Preparation Date: 16/2/2024
5. Available Attendance Forms: In-person lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30/2
7. Course administrator's name (mention all, if more than one name)
Name: Assis.prof.dr.fatimah adnan Lec. Dr.Ammar abdul-karim Email: Phar.fatimah.adnan@uobabylon.edu.iq phar.amar.abd@uobabylon.edu.iq
8. Course Objectives

Course Objectives	1- Make the graduated students able be familiar with reading and processing the medicine prescription 2- Make the graduated students able to educate the patients about their medications 3- Make the graduated students able to dispense medications in prescriptions in hospitals and community pharmacy safely 4- Learning Outcomes, Teaching ,Learning and Assessment Methode

9. Teaching and Learning Strategies	
Strategy	PowerPoints.. Whit board , • Seminars • Skill lab. • Lecture/ questions and answer • Demonstration, • Small groups assignment

	• Power point slide • Case study

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	To know about Introduction to Clinical	Introduction to Clinical	Power Points. White board. Lecture	Theory exam Class activities
2	2	To understand how treat Heart failure	Heart failure	Power Points. White board. Lecture	Theory exam Class activities
3	2	To understand how manage diabetes	diabetes	Power Points. White board. Lecture	Theory exam Class activities
4	2	To understand how manage hypertension	hypertension	Power Points. White board. Lecture	Theory exam Class activities
5	2	To understand how manage Ischemic heart disease	Ischemic heart disease	Power Points. White board. Lecture	Theory exam Class activities

6	2	To understand how manage asthma	asthma	Power Points. White board. Lecture	Theory exam Class activities
7	2	To understand how manage COPD	COPD	Power Points. White board. Lecture	Theory exam Class activities
8	2	To know how Communication with physician and patient counseling.	Communication with physician and patient counseling.	Power Points. White board. Lecture	Theory exam Class activities
9	2	To be expert in Drugs for anemia and related disorders.	Drugs for anemia and related disorders.	Power Points. White board. Lecture	Theory exam Class activities
10	2	To know Antimicrobial drugsin practice part I: β-lactam antibiotics, tetracyclines and aminoglycosides.	Antimicrobial drugsin practice part I: β-lactam antibiotics, tetracyclines and aminoglycosides.	Power Points. White board. Lecture	Theory exam Class activities
11	2	To know Antimicrobial drugs in practice part II: macrolides, sulphonamides, quinolones, and other miscellaneous antibiotics.	Antimicrobial drugs in practice part II: macrolides, sulphonamides, quinolones, and other miscellaneous antibiotics.	Power Points. White board. Lecture	Theory exam Class activities
12	2	To know Antimicrobial drugs in practice part III: antivirals and antifungals.	Antimicrobial drugs in practice part III: antivirals and antifungals.	Power Points. White board. Lecture	Theory exam Class activities

13	2	To know type of Drugs for endocrine system part II: thyroid disorders, corticosteroids, and hormones used in gynecological disorders.	Drugs for endocrine system part II: thyroid disorders, corticosteroids, and hormones used in gynecological disorders.	Power Points. White board. Lecture	Theory exam Class activities
14	2	To know the Drugs acting on CNS (antimigraine drugs, analgesics and antiemetics) and musculoskeletal disorders (NSAIDS and bisphosphonates).	Drugs acting on CNS (antimigraine drugs, analgesics and antiemetics) and musculoskeletal disorders (NSAIDS and bisphosphonates).	Power Points. White board. Lecture	Theory exam Class activities
15	2	To know type of Contraception.			Theory exam Class activities

Assis.prof.dr.fatimah adnan Lec. Dr.Ammar abdul-karim				

11. Course Evaluation

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name: clinical pharmacy
2. Course Code: PhCpi4B00043(2+2)
3. Semester / Year: 1st course/2023-2024
4. Description Preparation Date: 16/2/2024
5. Available Attendance Forms: In-person lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30/2
7. Course administrator's name (mention all, if more than one name)
Name: Assis.prof.dr.fatimah adnan Lec.hajir karim Lec. Dr.Ammar abdul-karim Email: Phar.fatimah.adnan@uobabylon.edu.iq Hajir.karim@uobabylon.edu.iq phar.amar.abd@uobabylon.edu.iq

8. Course Objectives

Course Objectives	1- Make the graduated students able be familiar with reading and processing the medicine prescription 2- Make the graduated students able to educate the patients about their medications 3- Make the graduated students able to dispense medications in prescriptions in hospitals and community pharmacy safely 4- Learning Outcomes, Teaching ,Learning and Assessment Methode

9. Teaching and Learning Strategies

Strategy	PowerPoints.. Whit board , • Seminars • Skill lab. • Lecture/ questions and answer • Demonstration, • Small groups assignment • Power point slide • Case study

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	To know about Introduction to Clinical	Introduction to Clinical	Power Points. White board. Lecture	Theory exam Class activities
2	2	To understand about Gastrointestinal diseases	Gastrointestinal diseases	Power Points. White board. Lecture	Theory exam Class activities
3	2	To know all cases of skin diseases	skin diseases	Power Points. White board. Lecture	Theory exam Class activities
4	2	To be expert gastrointestinal ulcer	gastrointestinal ulcer	Power Points. White board. Lecture	Theory exam Class activities
5	2	To treat Dandruff	Dandruff	Power Points. White board. Lecture	Theory exam Class activities
6	2	To manage diaper rash	diaper rash	Power Points. White board. Lecture	Theory exam Class activities

7	2	To manage Intestinal colic in children	Intestinal colic in children	Power Points. White board. Lecture	Theory exam Class activities
8	2	To understand Respiratory system in practice (part I): Cough	Respiratory system in practice (part I): Cough.	Power Points. White board. Lecture	Theory exam Class activities
9	2	To understand Respiratory system in practicee (part II): Common cold	Respiratory system in practicee (part II): Common cold.	Power Points. White board. Lecture	Theory exam Class activities
10	2	To study Pediatrics in practice: Oral thrush; colic; pinworm and napkin rash.	Pediatrics in practice: Oral thrush; colic; pinworm and napkin rash.	Power Points. White board. Lecture	Theory exam Class activities
11	2	To know how to manageMinor eye disorders in practice.	Minor eye disorders in practice.	Power Points. White board. Lecture	Theory exam Class activities
12	2	To understand CNS system: Insomnia, motion sickness, obesity and nicotine replacement therapy (NRT).	CNS system: Insomnia, motion sickness, obesity and nicotine replacement therapy (NRT).	Power Points. White board. Lecture	Theory exam Class activities
13	2	To be expert in Drug Information sources for pharmacist.	Drug Information sources for pharmacist.	Power Points. White board. Lecture	Theory exam Class activities

14	2	An update in reclassification of OTC drugs.	An update in reclassification of OTC drugs.	Power Points. White board. Lecture	Theory exam Class activities
15	2	To be practitioner in Collective practice.	Collective practice.	Power Points. White board. Lecture	Theory exam Class activities

11. Course Evaluation

Mid exam clinical pharmacy theory 20degree with 20degree practical clinical pharmacy. 60degree final exam clinical pharmacy

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Reference Text: ALISON BLENKINSOPP, PAUL PAXTON(eds), Symptoms in the Pharmacy. A Guide to the Management of Common Illness, 6th edition.
Lor waterfield, Community Pharmacy Hand Book, 5th edition

Coarse Description Form

1. Course Name: applied therapeutics
2. Course Code: PhAtii5B00058(2+0)
3. Semester / Year: 2nd course/2023-2024
4. Description Preparation Date: 16/2/2024
5. Available Attendance Forms: In-person lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
45/3
7. Course administrator's name (mention all, if more than one name)
Name: Prof.dr.husam wahab Pro.dr.rafal jaleel Assis.prof.dr.raghdan zaki Lac.dr.ismaeil awn Email: phar.hussam.wahab@uobabylon.edu.iq phar.rafal.jalil@uobabylon.edu.iq phar.ismael.obaidi@uobabylon.edu.iq
8. Course Objectives

Course Objectives	1-familiar with reading and processing the medicine prescription 2. communicate with the patient 3. educate the patients about their medications 4. to dispense medications in hospitals safely
9. Teaching and Learning Strategies	
Strategy	PowerPoints.. Whit board , • Seminars • Skill lab. • Lecture/ questions and answer • Demonstration, • Small groups assignment • Power point slide • Case study

10. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	2	To be expert in Course overview,	Course Overview	Power Points. White board. Lecture	Theory exam Class activities
2	2	To deal with Review of basic pharmacokinetic (PK)-	Review of basic pharmacokinetic (PK)-	Power Points. White board. Lecture	Theory exam Class activities
3	2	To learn about Review of basic pharmacodynamic (PD	Review of basic pharmacodynamic (PD)	Power Points. White board. Lecture	Theory exam Class activities
4	2	To deal with Clinical PK equations and calculations	Clinical PK equations and calculations	Power Points. White board. Lecture	Theory exam Class activities
5	2	To understand Clinical PK in special population and cases	Clinical PK in special population and cases	Power Points. White board. Lecture	Theory exam Class activities
6	2	To know about Clinical PK/PD for Antibiotics (e.g., Aminoglycosides, Vancomycin	Clinical PK/PD for Antibiotics (e.g., Aminoglycosides, Vancomycin	Power Points. White board. Lecture	Theory exam Class activities

7	2	To be expert in Clinical PK/PD for Cardiovascular agents (e.g., Digoxin, Lidocaine, Procainamide/N-Acetyl Procainamide (CUA).	Clinical PK/PD for Cardiovascular agents (e.g., Digoxin, Lidocaine, Procainamide/N-Acetyl Procainamide	Power Points. White board. Lecture	Theory exam Class activities
8	2	To study Clinical PK/PD for Anticonvulsants (e.g., Phenytoin, Carbamazepine, Valproic Acid, Phenobarbitone/Primidone, Ethosuxsimide	Clinical PK/PD for Anticonvulsants (e.g., Phenytoin, Carbamazepine, Valproic Acid, Phenobarbitone/Primidone, Ethosuxsimide	Power Points. White board. Lecture	Theory exam Class activities
9	2	To know Methods of Clinical PK/PD for Immunossprasants (e.g., Cyclosporine, Tacrolimus	Clinical PK/PD for Immunossprasants (e.g., Cyclosporine, Tacrolimus	Power Points. White board. Lecture	Theory exam Class activities
10	2	To know Clinical PK/PD of other drugs (e.g., Lithium, Theophylline, Anticancer agents, Anticoagulats	Clinical PK/PD of other drugs (e.g., Lithium, Theophylline, Anticancer agents, Anticoagulats	Power Points. White board. Lecture	Theory exam Class activities
11	2	To be expert in Clinical PK/PD for Adverse effects of chemotherapy	Clinical PK/PD for Adverse effects of chemotherapy	Power Points. White board. Lecture	Theory exam Class activities
12	2	To know what Clinical PK/PD for Human immunodeficiency viruse	Clinical PK/PD for Human immunodeficiency viruse	Power Points. White board. Lecture	Theory exam Class activities
13	2	To know what Clinical PK/PD for Multiple seclerosis	Clinical PK/PD for Multiple seclerosis	Power Points. White board. Lecture	Theory exam Class activities

14	2	To know what Clinical PK/PD for Adrenal gland disorders	Clinical PK/PD for Adrenal gland disorders	Power Points. White board. Lecture	Theory exam Class activities
15	2	To know what Clinical PK/PD for Pituitary gland disorders	Clinical PK/PD for Pituitary gland disorders	Power Points. White board. Lecture	Theory exam Class activities

11. Course Evaluation

Mid exam 30degree with 70degree final exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Reference Text: Roger Walker, Clive Edwards (eds), Clinical Pharmacy & Therapeutics.

Barbara G.Wells & Joseph T. Diriro, Pharmacotherapy hand book 7th Edittion.

Course Description Form

1. Course Name: Applied pharmacotherapy
2. Course Code: PhAti5B00055(3+0)
3. Semester / Year: 1st course/2023-2024
4. Description Preparation Date: 16/2/2024
5. Available Attendance Forms: In-person lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
45/3
7. Course administrator's name (mention all, if more than one name)
Name: prof.Dr.husam wahhab prof.Dr.rafal jaleel Lec. Dr.Ammar abdul-karim ..... Email: ..... phar.hussam.wahab@uobabylon.edu.iq phar.rafal.jalil@uobabylon.edu.iq phar.amar.abd@uobabylon.edu.iq
8. Course Object

Course Objectives	1-familiar with reading and processing the medicine prescription 2. communicate with the patient 3. educate the patients about their medications 4. to dispense medications in hospitals safely
9. Teaching and Learning Strategies	
Strategy	PowerPoints.. Whit board , • Seminars • Skill lab. • Lecture/ questions and answer • Demonstration, • Small groups assignment • Power point slide • Case study
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	To understand how to manage Acute coronary syndrome.	Acute coronary syndrome.	Power Points. White board. Lecture	Theory exam Class activities
2	3	To treat Arrhythmias	Arrhythmias	Power Points. White board. Lecture	Theory exam Class activities
3	3	To study how Thrombosisoccur	Thrombosis	Power Points. White board. Lecture	Theory exam Class activities
4	3	To understand Dyslipidemia	Dyslipidemia	Power Points. White board. Lecture	Theory exam Class activities
5	3	To treat Stroke	Stroke	Power Points. White board. Lecture	Theory exam Class activities
6	3	To know the drug for treat Shock	Shock	Power Points. White board. Lecture	Theory exam Class activities

7	3	To study Liver cirrhosis	Liver cirrhosis	Power Points. White board. Lecture	Theory exam Class activities
8	3	To understand Inflammatory bowel diseases	Inflammatory bowel diseases	Power Points. White board. Lecture	Theory exam Class activities
9	3	To understand Acute renal failure (ARF)	Acute renal failure (ARF)	Power Points. White board. Lecture	Theory exam Class activities
10	3	To know how to manage Chronic renal failure (CRF)	Chronic renal failure (CRF)	Power Points. White board. Lecture	Theory exam Class activities
11	3	To know Hemodialysis and peritoneal dialysis	Hemodialysis and peritoneal dialysis	Power Points. White board. Lecture	Theory exam Class activities
12	3	To know how to manage Systemic lupus erythematosis (SLE)	Systemic lupus erythematosis (SLE)	Power Points. White board. Lecture	Theory exam Class activities
13	3	To know how to manage Benign prostatic hyperplasia (BPH)	Benign prostatic hyperplasia (BPH)	Power Points. White board. Lecture	Theory exam Class activities

14	3	To understandAcid – base disorders	Acid – base disorders	Power Points. White board. Lecture	Theory exam Class activities
15	3	To understandDisorders of fluid and electrolytes	Disorders of fluid and electrolytes		

11. Course Evaluation

Mid exam 30degree with final exam 70degree

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Reference Text: Roger Walker, Clive Edwards (eds), Clinical Pharmacy & Therapeutics.

Barbara G.Wells & Joseph T. Diriro, Pharmacotherapy hand book 7th Edittion

Course Description Form

1. Course Name: hospital training
2. Course Code: PhHt5B00065(0+4)
3. Semester / Year: 1st and 2nd course/2023-2024
4. Description Preparation Date: 16/2/2024
5. Available Attendance Forms: In-person lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30/2
7. Course administrator's name (mention all, if more than one name)
Name: Assis.prof.dr.shafaq kadhum Lec. Hajir karim Lec. Dr.Ammar abdul-karim Assis.Lec. Abeer tariq .... Email: phar.shafaq.kadhim@uobabylon.edu.iq hajir.karim@uobabylon.edu.iq phar.amar.abd@uobabylon.edu.iq abeer.tariq@uobabylon.edu.iq
8. Course Objectives

Course Objectives	1- Make the graduated students able be familiar with reading and processing the medicine prescription 2- Make the graduated students able to communicate with the patient 3- Make the graduated students able to educate the patients about their medications 4- Make the graduated students able to dispense medications in prescriptions in hospitals and community pharmacy safely 5-Doses specifications by therapeutic drug monitoring

9. Teaching and Learning Strategies

Strategy	PowerPoints.. Whit board , • Seminars • Skill lab. • Lecture/ questions and answer • Demonstration, • Small groups assignment • Power point slide • Case study

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	To be expert in Introduction to the sentence	Surgery terms	Power Points. White board. Lecture	Theory exam Class activities
2	2	To know type of Prophylactic antibiotics	Prophylactic antibiotics	Power Points. White board. Lecture	Theory exam Class activities
3	2	To understand Liver diseases	Liver diseases	Power Points. White board. Lecture	Theory exam Class activities
4	2	To manage Coronary artery diseases	Coronary artery diseases	Power Points. White board. Lecture	Theory exam Class activities
5	2	To study labor	labor	Power Points. White board. Lecture	Theory exam Class activities

6	2	To know type of IV fluids	IV fluids	Power Points. White board. Lecture	Theory exam Class activities
7	2	To know trimesters of pregnancy	pregnancy	Power Points. White board. Lecture	Theory exam Class activities
8	2	To study arrhythmia	arrhythmia	Power Points. White board. Lecture	Theory exam Class activities
9	2	To study Kidney disorders	Kidney dsorders	Power Points. White board. Lecture	Theory exam Class activities
10	2	To study abortion	abortion	Power Points. White board. Lecture	Theory exam Class activities
11	2	To know type of antiemetic	antiemetic	Power Points. White board. Lecture	Theory exam Class activities
12	2	To know how to do Elective colon preparation	Elective colon preparation	Power Points. White board. Lecture	Theory exam Class activities

13	2	To know type of Hernia	Hernia	Power Points. White board. Lecture	Theory exam Class activities
14	2	To know how to manage pancreatitis	pancreatitis	Power Points. White board. Lecture	Theory exam Class activities
15	2	To know how to manage gallstones	gallstones	Power Points. White board. Lecture	Theory exam Class activities

11. Course Evaluation

40 degree involves quiz, daily attendance, case study and 60 dgree final exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Lectures
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	internet

Course Description Form

1. Course Name: pharmacoeconomy
2. Course Code: PhPh5B00059(2+0)
3. Semester / Year: 2nd course/2023-2024
4. Description Preparation Date: 16/2/2024
5. Available Attendance Forms: In-person lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30/2
7. Course administrator's name (mention all, if more than one name)
Name: Lec.dr. Ismaeil obaidi Dr.Ahmed wahhab ..... Email: phar.ismael.obaidi@uobabylon.edu.iq

8. Course Objectives

Course Objectives	1- Make the graduated students able to communicate with the patient 2- Make the graduated students able to educate the patients about their medications 3- Make the graduated students able to dispense medications in prescriptions in hospitals and community pharmacy safely 4-Doses specifications by therapeutic drug monitoring

9. Teaching and Learning Strategies

Strategy	PowerPoints.. Whit board , • Seminars • Skill lab. • Lecture/ questions and answer • Demonstration, • Small groups assignment • Power point slide • Case study

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	To be expert in Course overview, Changes in health care delivery, overview of pharmacoeconimics.	Course overview, Changes in health care delivery, overview of pharmacoeconimics.	Power Points. White board. Lecture	Theory exam Class activities
2	2	To deal with Cost determination. .	Cost determination.	Power Points. White board. Lecture	Theory exam Class activities
3	2	To learn about Evaluation of outcomes and effectiveness, types of pharmacoeconomic analyses: Cost effectiveness analyses (CEA), cost minimization analyses (CMA).	Evaluation of outcomes and effectiveness, types of pharmacoeconomic analyses: Cost effectiveness analyses (CEA), cost minimization analyses (CMA).	Power Points. White board. Lecture	Theory exam Class activities
4	2	To deal Evaluation of outcomes and effectiveness, types of pharmacoeconomic analyses: Cost effectiveness analyses (CEA), cost minimization analyses (CMA).	Methods of data collection and analyses, modeling (decision analyses).	Power Points. White board. Lecture	Theory exam Class activities
5	2	To do 1st mid-term examination	1st mid-term examination.	Power Points. White board. Lecture	Theory exam Class activities
6	2	To know about Incremental analyses; case studies.	Incremental analyses; case studies.	Power Points. White board. Lecture	Theory exam Class activities

7	2	To be expert in Evaluation outcomes: Utility and quality of life; types of pharmacoeconomic analyses, cost utility analyses (CUA).	Evaluation outcomes: Utility and quality of life; types of pharmacoeconomic analyses, cost utility analyses (CUA).	Power Points. White board. Lecture	Theory exam Class activities
8	2	To study Evaluation outcomes: Net benefit, cost utility analyses (CBA), compare and contrast CEA, CUA and CBA.	Evaluation outcomes: Net benefit, cost utility analyses (CBA), compare and contrast CEA, CUA and CBA.	Power Points. White board. Lecture	Theory exam Class activities
9	2	To know Methods of data collection and analyses: Statistical/Econometric modeling.	Methods of data collection and analyses: Statistical/Econometric modeling.	Power Points. White board. Lecture	Theory exam Class activities
10	2	To do 2nd mid-term examination.	2nd mid-term examination.	Power Points. White board. Lecture	Theory exam Class activities
11	2	To understand Drug-focused versus disease-focused frame work for conducting pharmacoeconomic analyses.	Drug-focused versus disease-focused frame work for conducting pharmacoeconomic analyses.	Power Points. White board. Lecture	Theory exam Class activities
12	2	To know how to do Critical review of pharmacoeconomic and quality of life literature.	Critical review of pharmacoeconomic and quality of life literature.	Power Points. White board. Lecture	Theory exam Class activities
13	2	To know how to do Introduction to epidemiology.	Introduction to epidemiology.	Power Points. White board. Lecture	Theory exam Class activities

14	2	To know how to do Project presentation.	Project presentation.	Power Points. White board. Lecture	Theory exam Class activities
15	2	To know how to do Project presentation.	Project presentation.	Power Points. White board. Lecture	Theory exam Class activities

11. Course Evaluation
30 degree mid exam plus 70degree final exam

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Reference text: ***Bootman JL, Townsend RJ, McGhan WF, (Eds.), Principles of Pharmacoeconomics, 2nd ed., Harvey Whitney Books Company, Cincinnati, Oh, latest edition***

Course Description Form

1. Course Name: pharmaceutical ethics
2. Course Code: PhPe3B00040(1+0)
3. Semester / Year: 2nd course/2023-2024
4. Description Preparation Date: 16/2/2024
5. Available Attendance Forms: In-person lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
15/1
7. Course administrator's name (mention all, if more than one name)
Name: Lec. Hajir karim Assis.lec..abeer tariq ..... Email: Hajir.karim@uobabylon.edu.iq abeer.tariq@uobabylon.edu.iq

8. Course Objectives

Course Objectives	1-communicate with the patient 2- educate the patients about their medications 3- to dispense medications in hospitals safely 4-to monitor drug level in blood to design new dosage regime

9. Teaching and Learning Strategies

Strategy	PowerPoints.. Whit board , • Seminars • Skill lab. • Lecture/ questions and answer • Demonstration, • Small groups assignment • Power point slide • Case study

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	To be expert in Introduction to the sentence	Introduction to the sentence	Power Points. White board. Lecture	Theory exam Class activities
2	1	To deal with Ethics in dealing with patients	Ethics in dealing with patients	Power Points. White board. Lecture	Theory exam Class activities
3	1	To learn about Ethics of dispensing digestive medicine	Ethics of dispensing digestive medicine	Power Points. White board. Lecture	Theory exam Class activities
4	1	To deal with ethics of scientific research	ethics of scientific research	Power Points. White board. Lecture	Theory exam Class activities
5	1	To learn Ethics of children's research	Ethics of children's research	Power Points. White board. Lecture	Theory exam Class activities
6	1	To know about depression disease	depression disease	Power Points. White board. Lecture	Theory exam Class activities

7	1	To be expert in pharmacy ethics	pharmacy ethics	Power Points. White board. Lecture	Theory exam Class activities
8	1	What is the OTC drugs	OTC drugs	Power Points. White board. Lecture	Theory exam Class activities
9	1	To know when the industry be build	Industry building	Power Points. White board. Lecture	Theory exam Class activities
10	1	To know the time of discovering a drug molecule	time of discovering a drug molecule	Power Points. White board. Lecture	Theory exam Class activities
11	1	To understand what is the DRPs	The DRPs	Power Points. White board. Lecture	Theory exam Class activities
12	1	To know the type of Therapeutic outcomes	Therapeutic outcomes	Power Points. White board. Lecture	Theory exam Class activities
13	1	To study how to achieve therapeutic outcomes	how to achieve therapeutic outcomes	Power Points. White board. Lecture	Theory exam Class activities

14	1	To understand what is the ethical dillema	the ethical dillema	Power Points. White board. Lecture	Theory exam Class activities
15	1	To know how to decrease DRPS	how to decrease DRPS	Power Points. White board. Lecture	Theory exam Class activities

11. Course Evaluation
30degree mid exam plus 70 degree final exam

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

References

1- *Ruth Rodgers, (ed.);* ***fast track: Law and Ethics in Pharmacy Practice.*** *Pharmaceutical Press 2010.*
2-*Joy Wingfield and David Badcott* ***. Pharmacy Ethics and Decision Making.*** *Pharmaceutical Press2007*
3-*Robert J. Cipolle, Linda M. Strand, Peter C. Morley.* ***Pharmaceutical Care Practice: The Clinician's Guide,*** *2nd Edition.*
4- *Robert m. Veatch and Amy Haddad****. Case Studies in Pharmacy Ethics.*** *second edition. Copyright © 2008 by Oxford University Press, Inc.*

Course Description Form

1. Course Name: therapeutic drug monitoring
2. Course Code: PhTdm5B00060(2+2)
3. Semester / Year: 2nd course/2023-2024
4. Description Preparation Date: 16/2/2024
5. Available Attendance Forms: In-person lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30/2
7. Course administrator's name (mention all, if more than one name)
Name: Lec. Dr. ayman bash Email: pHAR.AYMEN.A.BASH@uobabylon.edu.iq

8. Course Objectives

Course Objectives	1-familiar with reading and processing the medicine prescription 2. communicate with the patient 3. educate the patients about their medications 4. to dispense medications in hospitals safely

9. Teaching and Learning Strategies

Strategy	PowerPoints.. Whit board , • Seminars • Skill lab. • Lecture/ questions and answer • Demonstration, • Small groups assignment • Power point slide • Case study

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	To be expert in Course overview,	Course Overview	Power Points. White board. Lecture	Theory exam Class activities
2	2	To deal with Review of basic pharmacokinetic (PK)-	Review of basic pharmacokinetic (PK)-	Power Points. White board. Lecture	Theory exam Class activities
3	2	To learn about Review of basic pharmacodynamic (PD	Review of basic pharmacodynamic (PD)	Power Points. White board. Lecture	Theory exam Class activities
4	2	To deal with Clinical PK equations and calculations	Clinical PK equations and calculations	Power Points. White board. Lecture	Theory exam Class activities
5	2	To understand Clinical PK in special population and cases	Clinical PK in special population and cases	Power Points. White board. Lecture	Theory exam Class activities
6	2	To know about Clinical PK/PD for Antibiotics (e.g., Aminoglycosides, Vancomycin	Clinical PK/PD for Antibiotics (e.g., Aminoglycosides, Vancomycin	Power Points. White board. Lecture	Theory exam Class activities

7	2	To be expert in Clinical PK/PD for Cardiovascular agents (e.g., Digoxin, Lidocaine, Procainamide/N-Acetyl Procainamide (CUA).	Clinical PK/PD for Cardiovascular agents (e.g., Digoxin, Lidocaine, Procainamide/N-Acetyl Procainamide	Power Points. White board. Lecture	Theory exam Class activities
8	2	To study Clinical PK/PD for Anticonvulsants (e.g., Phenytoin, Carbamazepine, Valproic Acid, Phenobarbitone/Primidone, Ethosuxsimide	Clinical PK/PD for Anticonvulsants (e.g., Phenytoin, Carbamazepine, Valproic Acid, Phenobarbitone/Primidone, Ethosuxsimide	Power Points. White board. Lecture	Theory exam Class activities
9	2	To know Methods of Clinical PK/PD for Immunossprasants (e.g., Cyclosporine, Tacrolimus	Clinical PK/PD for Immunossprasants (e.g., Cyclosporine, Tacrolimus	Power Points. White board. Lecture	Theory exam Class activities
10	2	To know Clinical PK/PD of other drugs (e.g., Lithium, Theophylline, Anticancer agents, Anticoagulats	Clinical PK/PD of other drugs (e.g., Lithium, Theophylline, Anticancer agents, Anticoagulats	Power Points. White board. Lecture	Theory exam Class activities
11	2	To be expert in Clinical PK/PD for Adverse effects of chemotherapy	Clinical PK/PD for Adverse effects of chemotherapy	Power Points. White board. Lecture	Theory exam Class activities
12	2	To know what Clinical PK/PD for Human immunodeficiency viruse	Clinical PK/PD for Human immunodeficiency viruse	Power Points. White board. Lecture	Theory exam Class activities
13	2	To know what Clinical PK/PD for Multiple seclerosis	Clinical PK/PD for Multiple seclerosis	Power Points. White board. Lecture	Theory exam Class activities

14	2	To know what Clinical PK/PD for Adrenal gland disorders	Clinical PK/PD for Adrenal gland disorders	Power Points. White board. Lecture	Theory exam Class activities
15	2	To know what Clinical PK/PD for Pituitary gland disorders	Clinical PK/PD for Pituitary gland disorders	Power Points. White board. Lecture	Theory exam Class activities

11. Course Evaluation

30degree mid exam with 70degree final exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Reference Texts:

Applied Clinical Pharmacokinetics, Second Edition, 2008 by Larry A. Bauer.

Additional references include but not limited to the following:

Clinical Pharmacokinetics Concepts and Applications, Third Edition, 1995 by Malcolm Rowland and Thomas Tozer;

Course Description Form

1. Course Name: communication skills
2. Course Code: PhCs5B00051(2+0)
3. Semester / Year: 2nd course/2023-2024
4. Description Preparation Date: 16/2/2024
5. Available Attendance Forms: In-person lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
22.5/1.5
7. Course administrator's name (mention all, if more than one name)
Name: Lec. Hajir karim Assis.lec..abeer tariq .... Email: Hajir.karim@uobabylon.edu.iq abeer.tariq@uobabylon.edu.iq

8. Course Objectives

Course Objectives	1- Make the graduated students able to communicate with the patient 2- Make the graduated students able to educate the patients about their medications 3- Make the graduated students able to dispense medications in prescriptions in hospitals and community pharmacy safely 4-Doses specifications by therapeutic drug monitoring

9. Teaching and Learning Strategies

Strategy	PowerPoints.. Whit board , • Seminars • Skill lab. • Lecture/ questions and answer • Demonstration, • Small groups assignment

	• Power point slide • Case study

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1.5	To know how Patient-Centered Communication in Pharmacy Practice	Patient-Centered Communication in Pharmacy Practice	Power Points. White board. Lecture	Theory exam Class activities
2	1.5	To understandPrinciples and Elements of Interpersonal Communication	Principles and Elements of Interpersonal Communication	Power Points. White board. Lecture	Theory exam Class activities
3	1.5	To study Nonverbal type of communication.	Nonverbal type of communication.	Power Points. White board. Lecture	Theory exam Class activities
4	1.5	To know Barriers to communication.	Barriers to communication.	Power Points. White board. Lecture	Theory exam Class activities
5	1.5	To understand Listening and empathic responding during communication.	Listening and empathic responding during communication.	Power Points. White board. Lecture	Theory exam Class activities

6	1.5	To know what is the Assertiveness.	Assertiveness.	Power Points. White board. Lecture	Theory exam Class activities
7	1.5	To know how to Interviewing and assessment.	Interviewing and assessment.	Power Points. White board. Lecture	Theory exam Class activities
8	1.5	To know the way of Helping patients to manage therapeutic regimens.	Helping patients to manage therapeutic regimens.	Power Points. White board. Lecture	Theory exam Class activities
9	1.5	To understand Patient counseling; counseling check list; point-by-point discussion; counseling scenario.	Patient counseling; counseling check list; point-by-point discussion; counseling scenario.	Power Points. White board. Lecture	Theory exam Class activities
10	1.5	To study Medication safety and communication skills.	Medication safety and communication skills.	Power Points. White board. Lecture	Theory exam Class activities
11	1.5	To know Strategies to meet specific needs.	Strategies to meet specific needs.	Power Points. White board. Lecture	Theory exam Class activities
12	1.5	To know how to Communicating with children and elderly about medications.	Communicating with children and elderly about medications.	Power Points. White board. Lecture	Theory exam Class activities

13	1.5	To understand Communication skills and inter-professional collaboration.	Communication skills and inter-professional collaboration.	Power Points. White board. Lecture	Theory exam Class activities
14	1.5	To understand Electronic communication in healthcare.	Electronic communication in healthcare.	Power Points. White board. Lecture	Theory exam Class activities
15	1.5	To know how to be Ethical behavior when communicating with patients.	Ethical behavior when communicating with patients.	Power Points. White board. Lecture	Theory exam Class activities

11. Course Evaluation

Mid exam 30degree with final exam 70 degree

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Reference

Communication skills in pharmacy practice, A Practical Guide for Students and Practitioners FIFTH EDITION.