Ministry of Higher Education and Scientific Research Scientific Supervision and Evaluation Authority Department of Quality Assurance and Academic Accreditation

# Academic program description forms for colleges and institutes

University: Basrah

**College/Institute: Pharmacy** 

Academic Department: Clinical Pharmacy

File filling date: 2021-2022

Signature

Description of the academic program

**Department Head:** Dr. jubran khalil hassan

Signature

Dr. Suha Shyal Abd AL-Hassan

Vice Dean for Scientific Affairs: Dr. Modher nejim abdullah

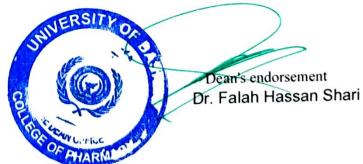
File checked by:

Quality Assurance and University Performance Division

Director of the Quality Assurance and University Performance Division:

Date:

Signature:



This academic program description provides a brief summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available opportunities. It is accompanied by a description of each course within the program.

1.Educational institution	Ministry oh higher education and scientific research
2.Department	University of Basrah/ College of Pharmacy/ Clinical pharmacy department
3.Academic Program	BSc in pharmaceutical Sciences
4.Final degree	Bachelor's
5.Study system	Two sessions per a year
6. Accreditation Program	Under study
7.External effectors	Practical part
8.Date of preparing	2021-2022

9. Goals of Academic Program:

The Program lasts for Three stages in Five sessions.....

3<sup>rd</sup> stage:

Session (2<sup>nd</sup>): Pharmaceutical Ethics: study the students the right ethics when dealing with patients, medical institutions or any part related to health, medical roles and laws.

These actions rise from humanity and what the pharmacy means

4<sup>th</sup> stage:

Sessions (1<sup>st</sup> and 2<sup>nd</sup>): Clinical Pharmacy; by two parts theoretical and practical, try to teach how to reach the right diagnosis of simple cases (1<sup>st</sup> course) and cases that need hospital admission (2<sup>nd</sup> course), try to aid in prescribing the true medications, suitable dose, the best drug for that case, and to follow up the drug administration with the patient

4<sup>th</sup> stage : Communication Skills

In the 2<sup>nd</sup> session or course this object is taken. Through it the students are taught how to communicate with patients and other people in the health institutions, dealing with the right ways in solving problems

5<sup>th</sup> stage:

1<sup>st</sup> and 2<sup>nd</sup> course: Advance therapeutics: this object is considered extension for clinical pharmacy in 4<sup>th</sup> stage, but dealing deep in diseases according to systems ( etiology, pathogenesis, diagnosis, treatment and best therapy use) 5<sup>th</sup> stage:

1<sup>st</sup> and 2<sup>nd</sup> course: Hospital training: this object the practical for applying the objects studied in advance therapeutics, in addition to new subjects regarding pediatrics, gynecology, surgery and internal medicine. These tours are done in departments of hospital

5<sup>th</sup> stage:

2<sup>nd</sup> course: pharmacoeconomics: studying the value of health services and drug treatment, choosing the suitable one with less economic value with best pharmacological results

5<sup>th</sup> stage:

2<sup>nd</sup> course: Therapeutic drug monitoring (TDM): here the students are taught how to calculate a specific dose for certain populations (renal failure, hepatic impairments), in addition to specific drug with special pharmaceutical properties. Calculate the drug concentration in blood in order to reach the desired therapeutic activity.

10.The output of academic program and ways of teaching and evaluating
a- the cognitive goals:
1. Define simple clinical cases that visit pharmacies and how to treat them
2. Define the clinical cases in hospitals and how to deal with
3. Define how to reach the desired therapeutic concentrations of drug
4. Define the economic value for final product (drug or services) and how to reach the best results
with minimum loss.
b- the skills goals:
1. gain skills in dealing with patients to reach the correct diagnosis and then the true therapy
2. gain skills in knowing the different dosage forms and the desired use
3. gain skills in drug marketing, that had an effect on global economic
Teaching methods
1. theoretical lectures
2. training laboratories
3. scientific researches
4. seminars
Evaluating methods
1. exams (mid-term and final)
2. weekly or daily quizzes (oral or written)
3. home works
4. graduate researches
c- educational goals
1. encourage the students to get more efficient in solving clinical cases
2. increase readings of scientific researches
3. being responsible due to dealing with patients life
Teaching methods
1. visiting the scientific locations (libraries, hospitals,etc)
2. home works
Evaluating methods
Oral discussions, OSCE and written exams
d- general skills for future
1. how to read prescriptions and discuss the items
2. using computers and software programs
3. how to present lectures and seminars
Teaching methods
Using data shows, download videos

## **Evaluating methods**

## Oral discussions and written exams

## 10. program design

S40-70	Name of objects	We		
Stage		Theoretical	Practical	
3rd	Pharmaceutical ethics / 2 <sup>nd</sup> course	2		
4rth	Clinical pharmacy I/ 1 <sup>st</sup> course	2	2	
	Clinical pharmacy	2	2	
	II/ 2 <sup>nd</sup> course			
	Communication skills/ 2 <sup>nd</sup> course	2		
5 <sup>th</sup>	Hospital training		6	
	Advance therapeutics/ 1 <sup>st</sup> course	3		
	Advance therapeutics/ 2 <sup>nd</sup> course	2		
	TDM	2	2	
	Pharmacoeconomics/ 2 <sup>nd</sup> course	2		

#### **12. planning for future personality**

Improve personality and vocational

**Improve communications** 

Scientific analysis

Scientific discussion

13. acceptance guide

Through central acceptance from ministry of higher education who had:

- graduate from high school (6<sup>th</sup> secondary class)

- 10% of the 1<sup>st</sup> s of pharmacy institute

- the 1<sup>st</sup> student on first stage in science college (biology/chemistry)

14. data source of this program

#### **Books and researches**

Clinical Pharmacy and therapeutics, by Walker

Applied Therapeutics, the clinical use of drugs, by Koda Kimble

**British National Formularly** 

Symptoms in the pharmacy, by Alison

Community Pharmacy; symptoms, diagnosis and treatment

Applied Clinical Pharmacokinetics, by Larry

		Sch	edu	le o	f co	urse	e ski	ills										
Put (*) for	each square in fro	nt of teachin	ig o	ut-p	ut t	hat	foll	ow t	the	prog	grar	n ev	alu	atio	n			
											Ne	cess	sary	Le	arni	ng (	)ut j	put
Year/level Name of object Essential/ optional		Knowledge goals			Skills goals			Moral goals				General skills( related for employing and personal development)						
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
3 <sup>rd</sup>	Pharmaceutical ethics	Essential	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4 <sup>th</sup>	-Clinical pharmacy communication skills	Essential	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5 <sup>th</sup>	-Advance therapeutics -Therapeutic drug monitoring -Pharmaco- economic -Hospital training	Essential	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

### **Model of Course Describing**

Here, the summery for describing the most course characteristics and teaching outputs that suspected by the student to reach them, if he took the full advantages from available teaching chances.

1. scientific institute	Ministry of higher education
2. department	Clinical pharmacy department/ college of
	pharmacy/ university of Basrah
3. Object name	Pharmaceutical Ethics
	Communication skills
	Clinical pharmacy
	Advance therapeutics I
	Hospital training
	Pharmacoeconomics
	Therapeutic drug monitoring
4. attendance	Theoretical lectures and scientific labs
5. section/year	1 <sup>st</sup> and 2 <sup>nd</sup> course of third, fourth, and fifth year
6. total hours	
7. date of organize this model	2021-2022

8. Course or Object Goals:

- Study the students the right ethics when dealing with patients, medical institutions or any part related to health, medical roles and laws. These actions rise from humanity and what the pharmacy means

- Try to teach how to reach the right diagnosis of simple cases (1<sup>st</sup> course) and cases that need hospital admission (2<sup>nd</sup> course), try to aid in prescribing the true medications, suitable dose, the best drug for that case, and to follow up the drug administration with the patient

- The students are taught how to communicate with patients and other people in the health institutions, dealing with the right ways in solving problems

- Dealing deep in diseases according to systems ( etiology, pathogenesis, diagnosis, treatment and best therapy use)

- Practical applying the objects studied in advance therapeutics, in addition to new subjects regarding pediatrics, gynecology, surgery and internal medicine. These tours are done in departments of hospital

- Studying the value of health services and drug treatment, choosing the suitable one with less economic value with best pharmacological results

- How to calculate a specific dose for certain populations (renal failure, hepatic impairments), in addition to specific drug with special pharmaceutical properties. Calculate the drug concentration in blood in order to reach the desired therapeutic activity.

9. The output of academic program and ways of teaching and evaluating

- a- the cognitive goals:
- 1. define simple clinical cases that visit pharmacies and how to treat them
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3. define how to reach the desired therapeutic concentrations of drug

4. define the economic value for final product (drug or services) and how to reach the best results with minimum loss.

b- the skills goals:

1. gain skills in dealing with patients to reach the correct diagnosis and then the true therapy

2. gain skills in knowing the different dosage forms and the desired use

3. gain skills in drug marketing, that had an effect on global economic

**Teaching methods** 

1. theoretical lectures

2. training laboratories

3. scientific researches

4. seminars

**Evaluating methods** 

1. exams (mid-term and final)

2. weekly or daily quizzes (oral or written)

3. home works

4. graduate researches

c- educational goals

1. encourage the students to get more efficient in solving clinical cases

2. increase readings of scientific researches

3. being responsible due to dealing with patients life

**Teaching methods** 

1. visiting the scientific locations (libraries, hospitals,...etc)

2. home works

**Evaluating methods** 

Oral discussions, OSCE and written exams

d- general skills for future

1. how to read prescriptions and discuss the items

2. using computers and software programs

3. how to present lectures and seminars

hours	objects	Name of object	Teaching method	Evaluating method		
2/ theoretical	Pharmaceutical ethics	Pharmaceutical ethics	lectures	Exams and quizzes		
2/theoretical 2/ practical	Diagnose disorders and treat them	Clinical pharmacy	Lectures	Exams and quizzes		
2/ theoretical	Principles of communications	communication skills	Lectures	Exams and quizzes		
3/ theoretical	Study diseases and their treatment	Advance therapeutics	Lectures	Exams and quizzes		
4/ practical	Practical apply of clinical cases	Hospital training	Lectures	Exams and quizzes		
2/ theoretical	Drug and medical services economy	pharmacoeconomics	Lectures	Exams and quizzes		
2/theoretical 2/practical	pharmacokinetics	Therapeutic drug monitoring	Lectures	Exams and quizzes		

## 11. plan for developing academic course

Review of course details completely after two years of course organization for updating every new pharmaceutical facts

12. the infrastructures	
1. books	Clinical Pharmacy and therapeutics , by Walker
	Applied Therapeutics, the clinical use of drugs, by Koda Kimble
	Symptoms in the pharmacy, by Alison
	Community Pharmacy; symptoms, diagnosis and treatment
	Applied Clinical Pharmacokinetics, by Larry
2. references	British National Formularly
	Pharmacotherapy
3. net webs	https://www.scholar.google.com
	https://www.sciencedirect.com