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: Pharmacognosy ,Medicinal Plants And Allied Science

File filling date: 2019-2020

Signature

Department Head:
Dr. Ula Mohammed Noor

Signature

Vice Dean for Scientific Affairs:
Dr. Muqdad Athab Musa

File checked by:

Quality Assurance and University Performance Division

Director of the Quality Assurance and University Performance Division:
Dr. Suha Shyal Abd AL-Hassan

Date:

Signature:

UNIVERSITY OF BASRAH
COLLEGE OF PHARMACY

Dean's endorsement
Dr. Falah Hassan Shari

Description of the academic program

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.

maximum use of the available opportunities. It is accompanied by a description of each course within the program.

1. Educational institution	College of Pharmacy
2. Academic Department/Center	Pharmacognosy, Medicinal Plants, and Allied Sciences
3. Academic or professional program name	Bachelor of Pharmacy
4. Final certificate name	Bachelor of Pharmacy
5. Academic system: annual / courses / other	Semesters
6. Accreditation Program Used:	
7. Other external influences	
8. Date of preparation of the description	2019-2020

9. Academic Program Objectives:

The first stage:

The first semester: It includes the following courses:

Mathematics: Teaching students the basic principles of mathematics and calculus.

Computers: It studies the principles of computers and networks and teaches students about different programs that will benefit them in the future.

The second semester: It includes the following courses:

Medical Physics: Teaching the basic physics concepts of the physical phenomena of the substance, which constitute one of the foundations of drug design, in addition to an understanding of physical terms and their applications in the pharmaceutical and medical fields.

The second stage:

The first semester: It includes the following courses:

Democracy and Freedom: To clarify the concept of freedom and democracy and the foundations and means that enable the student to identify its concept and how to benefit from it in our daily life.

The second semester: It includes the following courses:

Pharmacognosy: enables us to identify, name and classify medicinal plants, techniques for extracting active and pharmaceutically important substances, and methods for their separation and purification.

The third stage:

The first semester: It includes the following courses:

Pharmacognosy: A detailed study of the active chemical groups, their locations in plants, their effects, and the medicines containing them.

The second semester: It includes the following courses:

Pharmacognosy

10. Required program outcomes and methods of teaching, learning and assessment:

A. Learning Goals:

1. Introducing the methods of extracting active substances from natural sources
2. Introduction to plant extraction methods.
3. Introduction to extract purification methods

4. Introducing the types of medicinal plants and methods of scientific classification
5. Introduction to herbal medicine
6. Introducing the study of chemical compounds present in plants on different taxonomic bases

B. Skills objectives of the program

1. Gaining skill in extraction methods
2. Gain knowledge of medicinal plants
3. Gain knowledge of the negative and positive effects of herbs
4. Gain the skill in characterizing separated compounds

Teaching and learning methods

1. Theoretical lectures
2. Practical laboratories
3. Scientific Seminars

Evaluation methods

1. Exams for the first semester and the second semester
2. Weekly exams
3. Weekly lab reports
4. Graduation projects

C. Moral and value goals

1. Develop the student's ability to think and reason
2. Encouraging the student to read, study and search for all that is new and relevant
3. Enhancing the student's self-confidence to be able to give in the present and the future

Teaching and learning methods

Giving lectures

Assigning the student to prepare weekly reports, and this leads him to continuously search the websites

Expanding the student's awareness through assigned duties

Evaluation methods

Written exams

Submitting weekly reports

Lab exams

D. Transferred general and qualification skills (other skills related to employability and personal development).
    1. Skill in the use of computers and its various programs and keep abreast of developments in its various programs
    2. Skill in dealing with others and using the shortest and most appropriate way to communicate ideas
    3. Skill in delivering lectures in a clear, understandable and uncomplicated manner
    4. The skill to prepare and conduct the laboratory experiment in an accurate and organized manner and to give the best results

Teaching and learning methods

Theoretical, practical and oral

Evaluation methods

Oral and written exams, research and practical reports

11. Program structure

Educational level	Course code	Course name	Credit hours	
			Theoretical	Practical
First stage First semester	-	Mathematics and Biostatistics	3	
		Computers	2	2
First stage Second semester	-	Medical Physics	2	2
Second stage First semester	-	Pharmacognosy	3	2
		Democracy and Freedom	1	
Third stage First semester	-	Pharmacognosy II	3	2
Third stage Second semester	-	Pharmacognosy III	2	2

12. Planning for personal development

A. Seeking to enter training courses for the purpose of developing the branch and adding everything new
B. Participate in research with experienced people to benefit from their expertise
C. Increase knowledge
D. Scientific discussions

13. Admission standard (setting regulations related to joining the college or institute).

Central admission for sixth scientific graduates

The first students of the Institute of Pharmacy

The first student in the first stage / College of Science

13. The most important sources of information about the program

Scientific books

Pharmacognosy by Tyler.

Pharmacognosy and Pharmacobiotechnology by Robbers.

Fundamentals of pharmacognosy and phytotherapy by Heinrich.

Trease and Evans pharmacognosy by Evans.

Textbook of Pharmacognosy and Phytochemistry.

Calculus.

Curriculum skills chart																				
Please check the boxes corresponding to the individual learning outcomes from the program being evaluated																				
				Learning outcomes required from the program																
Year/level	Course Code	Course Name	Essential or optional	Learning objectives						Skills objectives of the program				Moral and value goals				Transferred general and qualification skills (other skills related to employability and personal development).			
				A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4
First	-	Mathematics And Biostatistics	Essential	#	#	#	#	#	#	#	#	#	#	#	#	#		#	#	#	#

		Computers	Essential	#	#	#	#	#	#	#	#	#	#	#	#	#		#	#	#	#
		Medical Physics	Essential	#	#	#	#	#	#	#	#	#	#	#	#	#		#	#	#	#
Second	-	Pharmacognosy	Essential	#	#	#	#	#	#	#	#	#	#	#	#	#		#	#	#	#
	-	Democracy and Freedom	Essential	#	#	#	#	#	#	#	#	#	#	#	#	#		#	#	#	#
Third	-	Pharmacognosy II	Essential	#	#	#	#	#	#	#	#	#	#	#	#	#		#	#	#	#
	-	Pharmacognosy III	Essential	#	#	#	#	#	#	#	#	#	#	#	#	#		#	#	#	#

Course description form

Course description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student, demonstrating whether he has made the most of the available learning opportunities. It must be linked to the description of the program

1. Educational institution	College of Pharmacy
2. Academic Department/Center	Pharmacognosy, Medicinal Plants, and Allied Sciences
3. Course name / code	Mathematics and biostatistics Computers Medical Physics Pharmacognosy Democracy and Freedom
4. Available forms of attendance	Theoretical lectures, and scientific laboratories
5. Semester/Year	First semester and second semester
6. Number of academic hours (total)	59 hours (A theoretical group is divided into four practical groups)
7. The date this description was prepared	2019-2020
8. Course objectives	

A. Study the meaning of pharmacognosy and medicinal plants

B. Introducing, naming and classifying medicinal plants, techniques for extracting active and pharmaceutically important substances, and methods for their separation and purification.

C. A detailed study of the effective chemical groups, their locations in plants, their effects, and the medicines containing them

D. Teaching students the basic principles of mathematics, calculus, and statistics

E. Studying the principles of computers and networks, and teaches students about different programs that will benefit them in the future

F. Understand physical terms and their applications in the pharmaceutical and medical fields

G. Clarifying the concept of freedom and democracy and the foundations and means that enable the student to identify its concept and how to benefit from it in our daily life

9. Course outcomes and methods of teaching, learning and assessment

A. Learning Goals:

1. Introducing the methods of extracting active substances from natural sources
2. Introduction to plant extraction methods.
3. Introduction to extract purification methods
4. Introducing the types of medicinal plants and methods of scientific classification
5. Introduction to herbal medicine
6. Introducing the study of chemical compounds present in plants on different taxonomic bases

B. Skills objectives of the program

1. Gaining skill in extraction methods
2. Gain knowledge of medicinal plants
3. Gain knowledge of the negative and positive effects of herbs
4. Gain the skill in characterizing separated compounds

Teaching and learning methods
1. Theoretical lectures 2. Practical laboratories 3. Scientific seminars
Evaluation Methods
1. Exams for the first semester and the second semester 2. Weekly exams 3. Weekly lab reports 4. Graduation projects
C. Moral and value goals 1. Develop the student's ability to think and reason 2. Encouraging the student to read, study and search for all that is new and relevant 3. Enhancing the student's self-confidence to be able to give in the present and the future
Teaching and learning methods
1. Giving lectures 2. Assigning the student to prepare weekly reports, and this leads him to continuously search the websites 3. Expanding the student's awareness through assigned duties
Evaluation methods
1. Written exams 2. Submitting weekly reports 3. Lab exams

D. Transferred general and qualification skills (other skills related to employability and personal development).

1. Skill in the use of computers and its various programs and keep abreast of developments in its various programs
2. Skill in dealing with others and using the shortest and most appropriate way to communicate ideas
3. Skill in delivering lectures in a clear, understandable and uncomplicated manner
4. The skill to prepare and conduct the laboratory experiment in an accurate and organized manner and to give the best results

10. Course structure

Weeks	Hours	Required learning outcomes	Unit name/topic	Teaching method	Evaluation method
During one week	3 theoretical	Principles of mathematics and statistics	Mathematics and statistics	Lectures	Theoretical exam
	2 theoretical and 2 practical	Fundamentals of computer science	Computers	Lectures and laboratories	Theoretical and practical exam
	2 theoretical and 2 practical	Understanding physical terms and their applications in the	Medical Physics	Lectures and laboratories	Theoretical and practical exam

		pharmaceutical and medical fields			
	3 theoretical and 2 practical		Pharmacognosy	Lectures and laboratories	Theoretical and practical exam
	1 theoretical	Study the concept of freedom and democracy	Freedom and democracy	Lectures	Theoretical exam

1. Infrastructure	
1. Required text books	Pharmacognosy by Tyler. Pharmacognosy and Pharmacobiotechnology by Robbers. Fundamentals of pharmacognosy and phytotherapy by Heinrich. Trease and Evans pharmacognosy by Evans. Textbook of Pharmacognosy and Phytochemistry. Calculus.
2. Main references (sources)	Pharmacognosy by Trease and Evans.
A. Recommended books and references (scientific journals, reports, ...)	J International Journal of Pharmacognosy and Phytochemical Research. Journal of Pharmacognosy and Phytochemistry.

	Journals of Pharmacognosy and Natural Products.
B. Electronic references, websites	https://www.medicinalplants-pharmacognosy.com/ pharmacognosy-s-topics/plant-exudates/
13. Course development plan	
Scientific pursuit and continuous research for everything new regarding our curricula and its inclusion in the curriculum to keep pace with the development taking place. .	