

Academic Program Description Form

University Name: Middle Technical University.

Faculty / Institute: Institute of Medical Technology – Al-Mansour.

Scientific Department: Pharmacy techniques.

Academic or Professional Program Name: Therapeutic application

Final Certificate Name: Technical diploma in pharmacy

Academic System: semester system

Description Preparation Date: 4/3/2024

File Completion Date:

Signature:	Signature:
Head of Department Name: Dr Hayder Merry	Scientific Associate Name: Prof. Shahbaa Muslem Ismail
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

Leadership and excellence in the field of technical education and scientific research. and concern to its quality to build a knowledge society.

2. Program Mission

To provide an educational and research environment conducive to education and creativity that will contribute to the preparation of highly qualified graduates, to achieve effective national and international scientific twinning, and to strengthen partnership with the sectors of society and international institutions in the relevant fields.

3. Program Objectives

Preparing qualified technical staff working in the field of pharmacy and pharmaceutical industries under the supervision of the pharmacist and working in the fields of reading
Medical prescriptions, preparation and dispensing of medicine -1
He works in the field of medicine under the supervision of a pharmacist or -2
chemist in the preparation of medicines
He works in drug stores and dispensaries in laboratories and drug stores, -3
where he is able to carry out all stages of storage, classification and arrangement

4. Program Accreditation

Medical

5. Program external influences

The graduate should be able to gain experience after graduation to work in his field of specialization and to have high confidence and knowledge in his

specialty to evaluate the performance personality by teamwork in his field of specialization

6. Program Structure				
Program Structure	Number of Courses	Credit hours	percentage	Reviews*
Institution Requirements				
College Requirements		4	100%	
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
2		Therapeutic application	2	2

8. Expected Learning Outcomes of the Program	
Knowledge	
A1- Understand the basic principles of general pharmacy specialization in general A2- Understand the scientific principles and basics of pharmacy A3- Learn the basics of drug dispensing, classification and education in the pharmacy A4- Identify the principles and basics of quality control methods during and production of medicines	A1- Understand the type of drug with its mechanism of action . A2- Understand the uses of the drugs . A3- Understand the side effect of the drug. A4-Identify the contraindication , pprecaution and interaction of the drugs .

Skills	
<p>B1 - The student learns the basics of preparing medicines</p> <p>B2 - The student learns the laboratory tools and equipment that he deals with</p> <p>B3 - Evaluating the graduate's personality by performing laboratory work</p> <p>B4 - Preparing and dispensing medicines</p>	<p>B1-The student learns the basics of drugs .</p> <p>B2-The student learns the traditional and scientific name of the drugs .</p> <p>B3-The student will be able to know the use , dose ,route of administration and side effect with precaution .</p> <p>B4-Preparing and dispensing medicines</p>
Ethics	
<p>C1- The student should be able to deal with the equipment in the laboratory</p> <p>C2- That the student is qualified to complete his studies in his field of specialization</p>	<p>C1-The graduate should be able to gain experience after graduation</p> <p>C2-The graduate should be able to work in his field of specialization</p> <p>C3-The graduate should be able to have high confidence and knowledge in his specialty</p> <p>C4-The graduate should be able to evaluate the performance personality by teamwork in his field of specialization</p>
	<p>C 1- The graduate should be able to learn the name , use , dose and trade name .</p> <p>C2- The graduate should be able to learn the dosage , route of administration of the drugs .</p>

9. Teaching and Learning Strategies
<ul style="list-style-type: none"> - Theoretical and electronic lectures - Labs - Systematic training - Summer training

10. Evaluation Methods

Daily assessment - theoretical electronic written tests - practical tests in the laboratory - final exams - discussion of graduation research

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements / Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Lecturer		√			1	1

Professional Development

Mentoring new faculty members

Reduces the chances of them becoming unhappy, and develops quality contributors within the organization

Professional Development of faculty members

Scientific and recreational trips-

- Participation in scientific debates between students in the specialty
- Attending seminars
- Participation in the calligraphy and drawing exhibition

12. Acceptance Criterion

Assessment of admission criteria through the central admission through the ministry's plan, according to the average and the type of branch in middle school, and this will be after an interview with the student at the institute

13.The most important sources of information about the program

- Vocabulary approved by the Deans Committee in the scientific specialization
- method book
- Teaching lectures from scientific sources and the Internet

14.Program Development plan

- Adding new topics to keep pace with the science development by reviewing the latest research published within the specialty
- Developing scientific capacity through publishing scientific research within the specialty.

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
2		Therapeutic application	basic	√	√	√	√	√	√	√	√	√	√	√	√

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

Course Description Form

1. Course Name:	
Therapeutic application	
2. Course Code:	
3. Semester / Year:	
Two semester	
4. Description Preparation Date:	
15-3-2024	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
4 hours (2 theoretical + 2 practical) / 4 units	
7. Course administrators name (mention all, if more than one name)	
Name: Prof . Shahbaa Muslim Ismail Email:shahbaa.ismail@ mtu.edu.iq	
Name: Reem muneer Email:	
8. Course Objectives:	
Course Objectives	Enable the students to correlate between the basic and scientific principles and practical applications in hospitals, factories, and private pharmacy. Understanding usage of drugs according to the trade name, methods of dispensing and registering, ordering, storage conditions, expire date, dealing with the expired drugs and how to write the information about dispensing drugs.

9. Teaching and Learning Strategies
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Strategy	<ul style="list-style-type: none"> - Theoretical and electronic lectures - Labs - Systematic training - Summer training
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10.Course Structure					
Week	Hours	Required Learning Outcomes	Unit or Subject name	Learning method	Evaluation method
1			Drugs affecting GIT	antacid, carminative, emetics and antiemetic . No.1	<ul style="list-style-type: none"> - Online theoretical written exams power point - Practical tests in the lab
2			Drugs affecting GIT	antacid, carminative, emetics and antiemetic . No.2	<ul style="list-style-type: none"> - Online theoretical written exams power point - Practical tests in the lab
3			Drugs affecting GIT	laxative and antidiarrheal drug	<ul style="list-style-type: none"> - Online theoretical

					written exams power point - Practical tests in the lab
4			Drugs affecting GIT	laxative and antidiarrheal drug	- Online theoretical written exams power point - Practical tests in the lab
5			Drugs affecting Urinary tract	Drugs affecting urinary tract system, diuretic, nactural enuresis ,No.1	- Online theoretical written exams power point - Practical tests in the lab
6			Drugs affecting Urinary tract	Drugs affecting urinary tract system, diuretic, nactural enuresis ,No.2	- Online theoretical written exams power point - Practical tests in the lab
7			Drugs affecting Urinary tract	Drugs affecting urinary tract system, diuretic,	- Online theoretical written exams power point

				natural enuresis ,No.3	- Practical tests in the lab
8			Drugs affecting cardiovascular system	Vasodilators	- Online theoretical written exams power point - Practical tests in the lab
9			Drugs affecting cardiovascular system	Antianginal drugs ,No.1	- Online theoretical written exams power point - Practical tests in the lab
10			Drugs affecting cardiovascular system		- Online theoretical written exams power point - Practical tests in the lab
11			Drugs affecting cardiovascular system	Antianginal drugs ,No.3	- Online theoretical written exams power point - Practical tests in the lab

12			Antihypertensive Drugs	antihypertensive and hypotensive drugs, vasodilator and vasoconstrictor drugs no.1	- Online theoretical written exams power point - Practical tests in the lab
13			Antihypertensive Drugs	antihypertensive and hypotensive drugs, vasodilator and vasoconstrictor drugs no.2	- Online theoretical written exams power point - Practical tests in the lab
14			Antihypertensive Drugs	antihypertensive and hypotensive drugs, vasodilator and vasoconstrictor drugs no.3	- Online theoretical written exams power point - Practical tests in the lab
15			Antihypertensive Drugs	antihypertensive and hypotensive drugs, vasodilator and vasoconstrictor drugs no.4	- Online theoretical written exams power point - Practical tests in the lab

11.Course Evaluation	
12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	-
Main references (sources)	Google scholar – google search - Wikipedia
Recommended books and references (scientific journals, reports....)	Lieutenant and lectures prepared by the professor after the approval of the sectoral advisory
Electronic References, Websites	