

## Academic Program Description Form

**University Name:** Middle Technical University.

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

**Scientific Department:** Pharmacy Department

**Academic or Professional Program Name:** Pharmacology

**Final Certificate Name:** Technical diploma in pharmacy

**Academic System:** semester system

**Description Preparation Date:**2024/ 2/ 29

**File Completion Date:**

<b>Signature:</b>	<b>Signature:</b>
<b>Head of Department Name:</b>	<b>Scientific Associate Name:</b>
<b>Date:</b>	<b>Date:</b>

**The file is checked by:**

**Department of Quality Assurance and University Performance:**

**Director of the Quality Assurance and University Performance Department:**

**Date:**

**Signature:**

**1. Program Vision**

General objectives: Covering the basic pharmacology curriculum, drugs and their effect on body

**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**

Specific objectives: Knowing the basics of pharmacology, knowing the mechanism of action of the drug in the body, its medicinal uses, and side effects.

**4. Program Accreditation**

Not yet.

**5. Program external influences**

The Ministry of Health, through the participation of the department and the ministry, and the follow-up of graduates

**6. Program Structure**

Program Structure	Number of Courses	Credit hours	percentage	Reviews*
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<b>Institution Requirements</b>	2	5	100%	
<b>College Requirements</b>				
<b>Department Requirements</b>				
<b>Summer Training</b>				
<b>Other</b>				

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

<b>7. Program Description</b>				
<b>Year /Level</b>	<b>Course Code</b>	<b>Course Name</b>	<b>Credit Hours</b>	
2		basic	<b>Theoretical</b>	<b>Practical</b>
			2	3

<b>8. Expected Learning Outcomes of the Program</b>
<b>Knowledge</b>
1. Comprehensive acquaintance about drugs and their safe use& knowledge of the basic principles relating to study relevant subjects branch statement 2. The predicted toxicity and side effects of the drugs and chemicals
<b>Skills</b>
1. Giving presentations on specific topics 2. Writing scientific reports 3. Small group assignments 4. Action posters multiple topics
<b>Ethics</b>
The graduate should be able to gain experience after graduation. The graduate should be able to have high confidence and knowledge in his specialty.

<b>9. Teaching and Learning Strategies</b>
<ul style="list-style-type: none"> <li>● Presentation of the scientific topics</li> <li>● Solving examples</li> </ul>

- Education (theoretical, practical, electronic)

### 10. Evaluation Methods

- Daily assessment (providing daily reports and electronic oral and written exams)
- Semester assessment (term exams and discussion of student research)

### 11. Faculty

#### Faculty Members

Academic Rank	Specialization		Special Requirements / Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
<ul style="list-style-type: none"> <li>• Lecturer</li> <li>• Assistant lecturer</li> </ul>	√	√			1	2

#### Professional Development

##### Mentoring new faculty members

There is periodic follow-up for new lecturers

##### Professional Development of faculty members

The department always works to develop the skills of the teaching staff by holding seminars and training courses

**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**

- prescribed books
- External help books
- Internet

**14.Program Development plan**

Follow the latest updates and studies on the topic and deliver up-to-date information to the student.

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
			basic	√	√	√	√	√	√	√	√	√	√	√	√

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

## Course Description Form

<b>1. Course Name:</b>	
pharmacology	
<b>2. Course Code:</b>	
<b>3. Semester / Year:</b>	
semester	
<b>4. Description Preparation Date:</b>	
29 /2 /2024	
<b>5. Available Attendance Forms:</b>	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Five	
<b>7. Course administrators name (mention all, if more than one name)</b>	
Name: Dr.Zeena jamal Alkhzraji Email: <a href="mailto:zeenajamal@mtu.edu.iq">zeenajamal@mtu.edu.iq</a> Name: Tuqa Haitham Qasim Email: <a href="mailto:tuqa_haitham@mtu.edu.iq">tuqa_haitham@mtu.edu.iq</a>	
<b>8. Course Objectives:</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"><li>● Knowing the basics of pharmacology</li><li>● knowing the mechanism of action of the drug on the body</li><li>● knowing its medical uses, and side effects.</li></ul>
<b>9. Teaching and Learning Strategies</b>	

<b>Strategy</b>	<ul style="list-style-type: none"> <li>• Electronic lectures, educational laboratories, practical lessons</li> <li>• The use of the projector, the blackboard, and the available illustrations, according to the type of attendance, in person or electronically.</li> </ul>
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<b>10.Course Structure</b>					
<b>1<sup>st</sup> Course</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or Subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1 <sup>st</sup>	Two hours theoretical + three hours practical		-General aspects of pharmacology -General definitions –Drug-Dose -Methods & drugs administration -Classification and naming & drugs	Presentation of the scientific topics Solving examples Education theoretical, practical, electronic)	Daily assessment Semester assessment





8 <sup>th</sup>	==		Analgesics:- a)Narcotic or opioid analgesic b)Non-steroidal antiinflammatroy antipyretic analgesics	==	==
9 <sup>th</sup>	==		C.N.S stimulants	==	==
10 <sup>th</sup>	==		Anesthetics:- General anesthesia Local anesthesia	==	==
11 <sup>th</sup>	==		Drugs acting on Respiratory system:- Expectorants- Antitussives- Bronchodilators	==	==
12 <sup>th</sup>	==		Drugs acting on gastrointestinal tract:- Antacids- Antidiarrheal- and laxatives-Antiemeti cs	==	==
13 <sup>th</sup>	==		Drugs acting on urinary system Diuretic drugs Classification-Mec hanisms of action	==	==

14 <sup>th</sup>	==		Drugs used in cardiovascular system:- -Cardiac glycosides: Digitalis -Antiarrhythmic drugs -Anti anginal drugs	==	==
15 <sup>th</sup>	==		-Antihypertensive drugs vasodilators -Drugs affect hemostasis -anticonvulsant	==	==

## 2<sup>nd</sup> Course

Week	Hours	Required Learning Outcomes	Unit or Subject name	Learning method	Evaluation method
1st	Two hours theoretical + three hours practical		Autacoids:- -histamine and histamine antagonists -Serotonin and prostaglandins	Presentatio n of the scientific topics Solving examples Education theoretical ,practical, electronic)	Daily assessment Semester assessment

2nd	==		Vitamins:- Water soluble vitamins Fat soluble vitamins	==	==
3rd	==		Drugs influence: metabolic and functions -Insulin and hypoglycemic agents -Adrenal steroids	==	==
4 <sup>th</sup>	==		-Thyroid hormones and antithyroid drugs -Vasopressin and oxytocin	==	==
5 <sup>th</sup>	==		-Anterior pituitary gonadotropins and sex hormones- oral contraceptive pills -Drugs used in gout treatment	==	==
6 <sup>th</sup>					
7 <sup>th</sup>	==		Introduction to chemotherapy: -mechanism of antibiotics action. Antibiotics: -classification-uses - sulfonamides -antiviral. -antifungal drugs	==	==
8 <sup>th</sup>					
9 <sup>th</sup>					

10th	==		Drugs used to treat amebiasis and other intestinal protozoal infections -anthelmintics drugs	==	==
11th	==		Chemotherapy of neoplastic diseases	==	==
12th	==		Principle of immunopharmacology	==	==
13 <sup>th</sup> 14 <sup>th</sup>	==		Poison and antidotes -metal poisoning -plant poisoning. -general principle of poisons treatment	==	==
15 <sup>th</sup>	==		Drugs interactions	==	==

<b>11.Course Evaluation</b>	
Daily assessment / electronic, theoretical written tests / practical tests in laboratories, workshops or electronic / final exams	
<b>12.Learning and Teaching Resources</b>	
<b>Required textbooks (curricular books, if any)</b>	Lippincott Illustrated Reviews

<b>Main references (sources)</b>	
<b>Recommended books and references (scientific journals, reports....)</b>	Pharmacology by Brenner and Stevens'
<b>Electronic References, Websites</b>	