

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

Academic program description form for colleges and institutes

the University : Northern Technical University

the college/ Institute: Technical Institute / Mosul

scientific department : Department of Medical Laboratory Technologies

Assistant .prof Dr. Mohammed fahdal haddad

Department Head

Signature

Date: 12/ 6 /2023

Assistant .prof Dr. raghad ghalib sultan

Scientific assistant

Signature

Date: 12 / 6 /2023

The file has already been checked

Quality Assurance and University Performance Division

**Name of the Director of the Quality Assurance and University
Performance Division:**

Date

Signature

Dean's endorsement

Academic Program Description

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, proving whether he has made the most of the available opportunities. It is accompanied by a description of each course within the program

the University Technology North	1. Enterprise educational
Institute technical / Mosul	2. Section Scientific / Center
Department of Medical Laboratory Technologies	3. Noun the program Academic or professional
diploma Technical Labs medical	4. Noun Certificate Final
annual	5. the system school : annual /courses /other
	6. a program Accreditation approved
Action analyst at Labs Hospitals and centers health	7. Effects External other
11/8/2023	8. Date Prepare the description
9. Goals the program Academic	
The program aims to prepare technical staff capable of working in the field of pathological analyzes.	
1. Collecting some information from the patient, such as name, age and sex registration as well.	
2. Taking the sample from the patient, whether it is blood, urine, discharge, tissue transplantation, etc., according to the doctor's instructions.	
3. Recording the above information in special records kept in laboratories.	
4. Conducting examinations for the patient.	

5. Recording the results of the tests on the record in the laboratory.

6. Delivery of the results of the examinations to the patient.

10. output the program required and modalities education and learning and evaluation

1- Objectives Cognitive

- a1- Get to know On how to plural the information From Patient.
- a2- Get to know On etiology pathological and its relationship With some of them some
- a3- Get to know On Effects side according to Results laboratory for the patient
- a4-
- a5-
- a6-

B – Objectives Marathi own program

- B 1 - Education and training requester Around how to plural samples laboratory .
- B 2 - Education and training requester Around how to Preparation Patient for every check up just Status pathological.
- B 3 - Education and training requester how to save models whether blood or urination or Other .
- B 4 - Education and training requester how to The performance by making checkups

modalities education and learning

Theoretical lectures, self-learning, seminars, panel discussions, practical training in laboratories (tissue and cellular slides, laboratory techniques and quality control, laboratory equipment, blood transfusion, tissues and anatomy, basics of nursing, chemistry, computer applications, clinical chemistry, hematology, parasites and Viruses, medicinal fungi, immunity and serum (summer training, graduate research

modalities Evaluation

Daily written exams, quarterly and final exams, submitting weekly reports on the examinations conducted by students during training, seminars, seminars, in addition to daily attendance and class participations..

c- goals sentimental and value .

c1- Learning self (From During assignments Around rise requester with tests certain Then show it From Kiss).

c2- Training On Share Collective at how to plural the information From Patient And from Then do them for analysis

c3- Learning From During totals Group Therapy

modalities education and learning

Traditional lecture, debate, discussion, scientific film screening and videos related in ways plural samples From The patients And from Then Procedure checkups , Scientific visits for information.

modalities Evaluation

Written and oral exams, quarterly and final exams, daily exams, assignments obligations (such as preparing reports within the field of specialization and discussing these reports, as well as preparing reports on scientific developments related to the specialty)

Dr -skills the public and qualifying movable (Skills other related portability recruitment and evolution profile).

Dr1- Skills of dealing with patients.

Dr2- Patient preparation skills for laboratory sample collection.

Dr3- Skills of dealing with emergency situations.

Dr4- Computer application skills.

Dr5- Skills of using laboratory equipment.

modalities education and learning

Traditional lectures, laboratory training, report writing, presentation of scientific films and special videos, scientific visits, and summer training

modalities Evaluation

Practical exams, semester and final exams, assignments (Such as Action Reports at field Jurisdiction And from Then Debate reports).

11.structure the program

hours approved		Noun course or course	Code course or course	stage school
my work	theoretical			
42	22	Department Techniques laboratories medical		the year school first
52	26	Department Techniques laboratories medical		the year school the second

12.planning to develop profile

- 1- Access to recent scientific literature
- 2- Participation in relevant scientific conferences
- 3- Sending workers for training inside and outside the country to see the modern equipment used in laboratories
- 4- Hosting professional teachers
- 5- Conducting field research related to the specialty
- 6- Get to know the latest tests used in international laboratories
- 7- Academic pairing with other universities and corresponding colleges

13.standard admissions (put systems related by joining in college or institute)
<ul style="list-style-type: none">1- the average2- Scientific section3- Student interview4- Determining the male to female ratio5- Taking into account the specialization lessons within the general average.6- Determining the number of students to be accepted after reviewing the relevant authorities (for example, forming a committee between the institute and the departments that receive graduates to work within their cadres to determine the number of accepted students based on need).
14.most important Resources the information About the program
<ul style="list-style-type: none">1- Head of Department2- department teacher3- The technical angel in the department

Planned skills curriculum																
Kindly put Signal at squares the interview for output learning individual From the program submissive for evaluation																
output learning required From the program																
skills the public and qualifying Movable (skills other related portability recruitment and evolution profile)				Objectives sentimental and value				Objectives Marathi own program				Objectives Cognitive				Basic Mother my choice
Dr4	Dr 3	Dr 2	Dr 1	c4	c3	c2	c1	B4	B3	B2	B1	a4	a3	a2	a1	
☉	☉	☉	☉		☉	☉	☉	☉	☉	☉	☉			☉	☉	Basic (teaching in the language English)
																immunity And sero

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 to achieve, demonstrating whether he has made maximum use of the available learning opportunities. It must be linked to the description of the program.;

the University Technology North	1. Enterprise educational
Department Techniques laboratories medical / Institute technical - Mosul	2. Section Scientific / Center
immunity And sero	3. Noun / Code course
1- Table lessons weekly (my theory and practical) 2- discussions and seminars Scientific and activities other extra-curricular and conferences Scientific	4. shapes Attendees available
annual	5. the classroom / the year
60 hours theoretical \ 120 hours my work	6. Number hours school (total)
1/8/2018	7. Date Prepare This the description
8. Goals course	
1- Teaching and training the student how to the work at field laboratories medical Miscellaneous	
2- Teaching and training the student how to plural the information From Patient Such as The name and age and sex	

3-	Teaching and training the student how to Taking the sample From Patient whether was it blood or urination or Exit
4-	Teaching and training the student how to Sign Up the information and documented at records Especially reservation in laboratories
5-	Teaching and training the student how to Procedure checkups for the patient
6-	Teaching and training the student how to Delivery calendar checkups for the patient
7-	Teaching and training the student how to
8-	Teaching and training the student how to
9-	Teaching and training the student how to
output course and modalities education and learning and evaluation	
A- Objectives Cognitive a1- Get to know On how to plural the information From Patient a2- Get to know On etiology pathological and its relationship With some of them some a3- Get to know On Effects side according to Results laboratory a4- Get to know On a5- Get to know On a6- Get to know On	
B - Objectives Marathi own by course. B1 - Training On how to plural samples laboratory B2- Training On how to Preparation Patient for every check up just Status pathological B3- Training On how to save models whether she was blood or urination B4- Training On how to Procedure checkups	
modalities education and learning \ All roads below	
lecture traditional, Writing reports, Procedure Episodes study, training methodical at laboratory, and training summertime.	
modalities Evaluation \ All roads below	
the exams editorial and verbal daily, the exams applied, exams Quarterly and final, Obligations Assignments , Attendees and commitment, nutrition review (Exam requester by topic the previous) , Evaluation self (Put Questions for the student From Before teacher and answer requester On questions as well Answer it teacher On same questions and asks From	

requester Evaluation Himself On Light answers teacher), reports Around Updates Scientific at field Jurisdiction, Guidance Questions analytical and inferential.

c- goals **sentimental and value**

- c1- Training On Procedure Examinations certain From Before requester
- c2- Training On Procedure checkups in the form of collective and analyze it
- c3- Training On learning From During totals
- c4- Training On

modalities education and learning \ All roads below

lecture traditional, learning self, nutrition review, Questions thinking deductive and analytical, training Applied at Labs Section training summertime.

modalities Evaluation \ All the exams below

the exams editorial and verbal and applied, and exams Quarterly and final, and tests daily, and obligations Assignments Such as Action Reports value field Jurisdiction And from Then Debate Reports , Attendees and commitment , nutrition review (Exam requester by topic ex) , evaluation self (Put Questions for the student From Before teacher and answer requester On questions as well Answer it teacher On same questions and asks From requester Evaluation Himself On Light answers teacher), questions Conclusion and inductive.

Dr - Skills **the public and qualifying movable (Skills other related portability recruitment and evolution profile)**.

- Dr1- Hits field to acquire Experience From others ☉
- Dr2- Seeing On Updates Scientific at field Jurisdiction ☉
- Dr3- Training practical at Hospitals ☉
- Dr4- Seeing On Techniques learning and education modern ☉

10. structure course					
method Evaluation	method education	Noun Unit / or Topic	output learning required	hours	the week
Exam my work	Lecture, Debate, feed back, Show posters explanatory, Show Videos and movies	Definition of immunity and history of immunity.	definition immunity and	6 hours	1
		Natural immunity types and mechanical of it	date Science immunity Species immunity natural and quality and non-specificity and factors influential On immunity individual	12 hours	2,3
		Acquired immunity and types of it	Species immunity acquired and examples on her	6 hours	4
Exam my work	Lecture, Debate, feed back, Show posters explanatory, Show Videos and movies	Vaccine and types	Species Vaccines	6 hours	5
		Structure of immunity system	preachers Device immunity and types the device lymphatic Identify On complement and its tracks	6 hours	6
		Complement and its pathways		6 hours	7
Exam my work	Lecture, Debate, feed back, Show posters explanatory	Antigen definition & characteristic of it Ab define & types of it	Definition of antigen and specification	18 hours	8,9,10 1112

	ry, Show Videos and movies		Definition of opposite and variety and the differences between them	12 hours	
Exam my work	Lecture, Debate, feed back, Show posters explanatory, Show Videos and movies	Ab-Ag reaction and types of it	Species Interactions Antigen (agglutination, precipitation, neutralization, fixation Complement types Affiliate for every Technique)	30 hours	13,14,15,16,17,18
Exam my work	Lecture, Debate, feed back, Show posters explanatory, Show Videos and movies	Immunoresponse and types of it	response Immunological and response humoral and cellular and types Lymphokines	12 hours	19, 20
Exam my work	Lecture, Debate, feed back, Show posters explanatory, Show Videos and movies	Microorganism immunity, types of cellular and humoral immunity	immunity against Biology microscopic + and types immunity cellular and humoral	12 hours	21 and 22

Exam my work	Lecture, Debate, feed back, Show posters explanatory, Show Videos and movies	Immunity to viruses Immunity to parasites Immunity to fungi	immunity Quality and non-specificity immunity cellular and humoral against Parasites immunity against fungi Clarification with a scheme	6 hours 6 hours 6 hours	23 24 25
		Microorganism immunity Autoimmunity Hyper sensitivity AIDS & immunity	How overcome Biology microscopic On immunity Definition of immunity subjectivity and its types Species excessive Allergy and define it With Draw AIDS and immunity	6 hours 6 hours 12 hours 6 hours	26 27 28 and 29 30
11. Structure Infrastructure					
Immunology Immunology translated into Arabic			1 books assessed required		
1. prescribed books 2. Medical microbiology & immunity			2 References Main (Sources)		
1. WHO issued 2. Specialized scientific journals			A books and references Which recommend By (magazines Scientific , reports ,)		

Wikipedia	B - References electronic, websites the internet
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12.plan Development course school \all points below

- 1- Access to recent scientific literature
- 2- Participation in relevant scientific conferences
- 3- The teaching and training staff are free to apply and work in hospitals, even one day per week
- 4- Hosting professional teachers
- 5- Field research related to specialization
- 6- Academic pairing with other universities and corresponding colleges