Ministry of Higher Education & Scientific Research Supervision and Scientific Evaluation Directorate Quality Assurance and Academic Accreditation International Accreditation Dept.



Guide to Course Descriptions and Academic Programs for 2025

Ministry of Higher Education & Scientific Research Supervision and Scientific Evaluation Directorate Quality Assurance and Academic Accreditation International Accreditation Dept.

Academic Program Specification Form for The Academic Year 2024

University: Northern Technical University

Faculty/Institute: Al-dour Technical Institute

Department: Medical Laboratory Technica's

Name of the academic or professional program: Technical diploma in Medical

Laboratory Technica's

Name of the final certificate: Technical diploma in Medical Laboratory Technica's

1

Academic system: Curriculum system

File preparation date: 26-1-2025

File filling date:26-1-2025

Signature

The name of the head of the department Assist. Lec. Asmaa Abdulhaq Mohammed

Signature Dean's Assistant For Scientific Affairs Assist. Prof. Dr. Hanan Shahb Ahmad

Check the file by Quality Assurance and University Performance Division Name of the director of the Quality Assurance and University Performance Division:

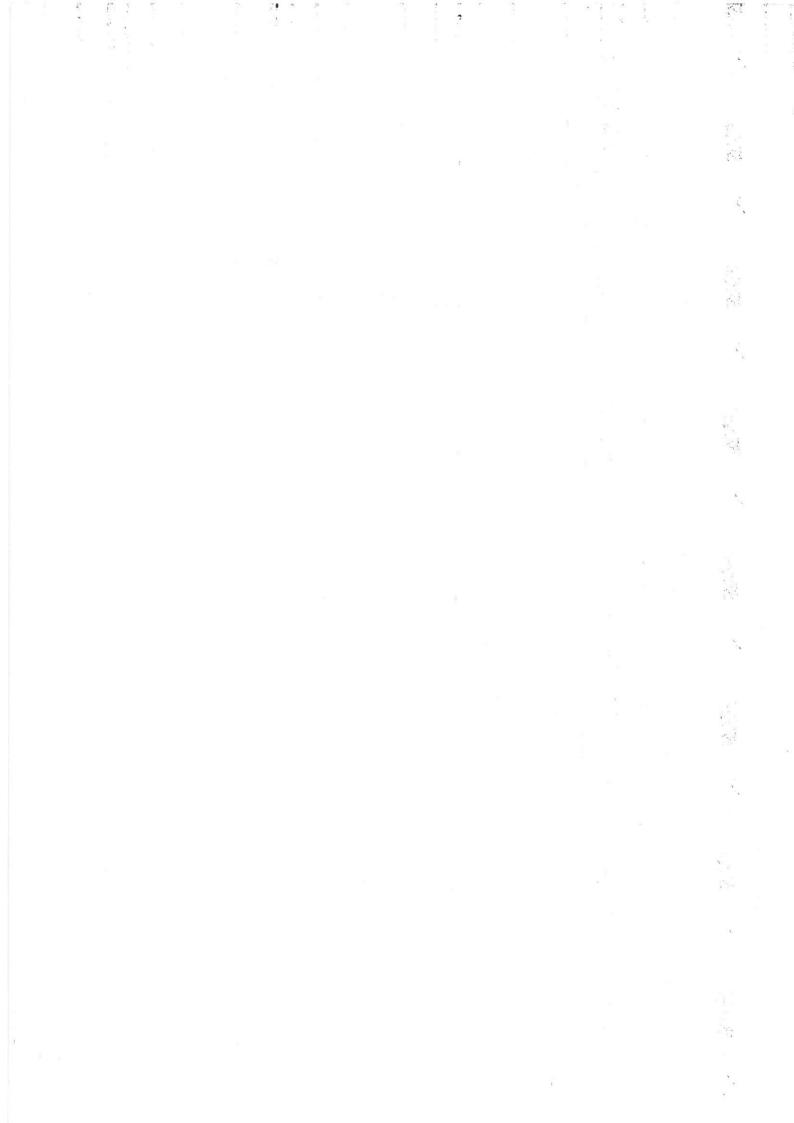
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Signature

Asst. Lecturer Hayder Ali Mohssn

Dean's endorsement

Assist. Prof. Dr. Maha Elttayef Jasim



Vision of program

The department seeks to prepare technicians specialized in medical tests and medical laboratory management, who are prepared to work in government health departments and benefit from them at the scientific and applied levels.

Program message

- Preparing specialized technical, scientific and professional cadres within the field of laboratory work who are able to interact and keep pace with the development of scientific research and with a high level of responsibility towards the local and international community by providing medical services within laboratory specialization with all honesty and sincerity.
- 2. Working to refine the student's scientific and cognitive talents and benefit from them within laboratory specialization through training courses, workshops, and scientific visits to advanced health and educational institutions.

Program Goals

The department aims to graduate professional technical staff who have the ability to work in medical laboratories and perform simple routine laboratory tests and general biochemical examinations within various body fluids, as well as laboratory management and how to deal with and maintain laboratory equipment.

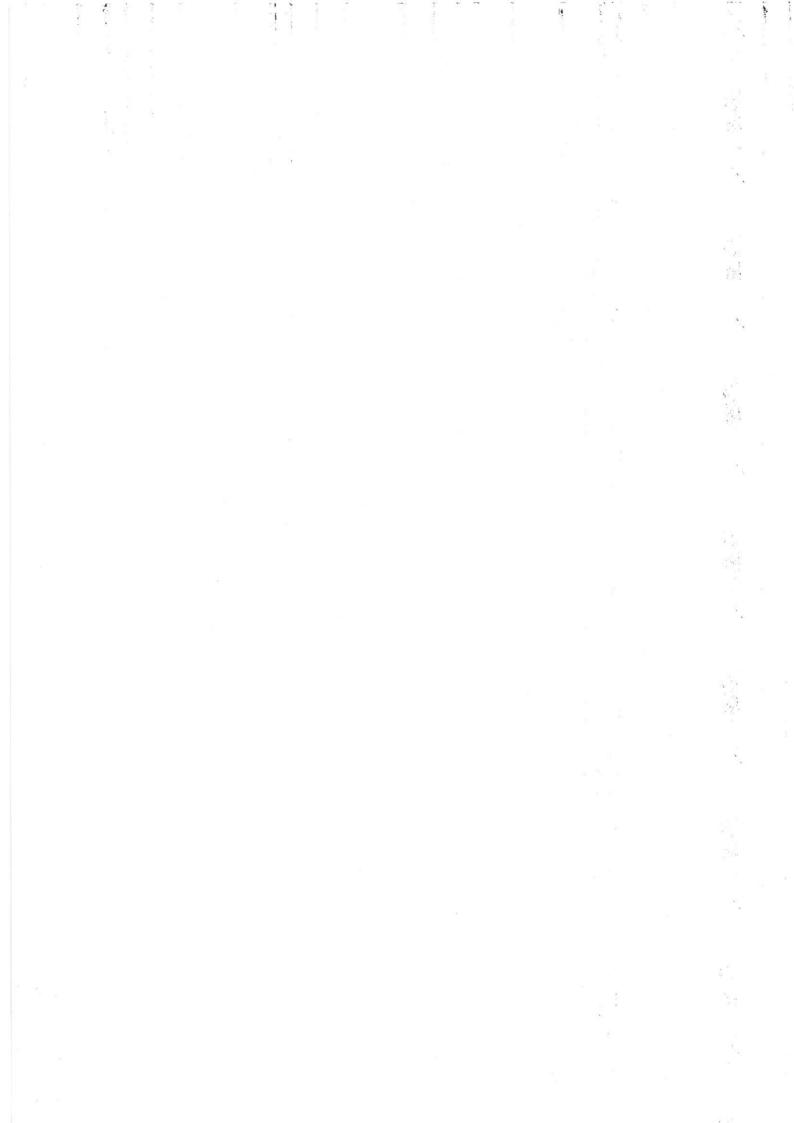
Program accreditation

The department is seeking programmatic accreditation.

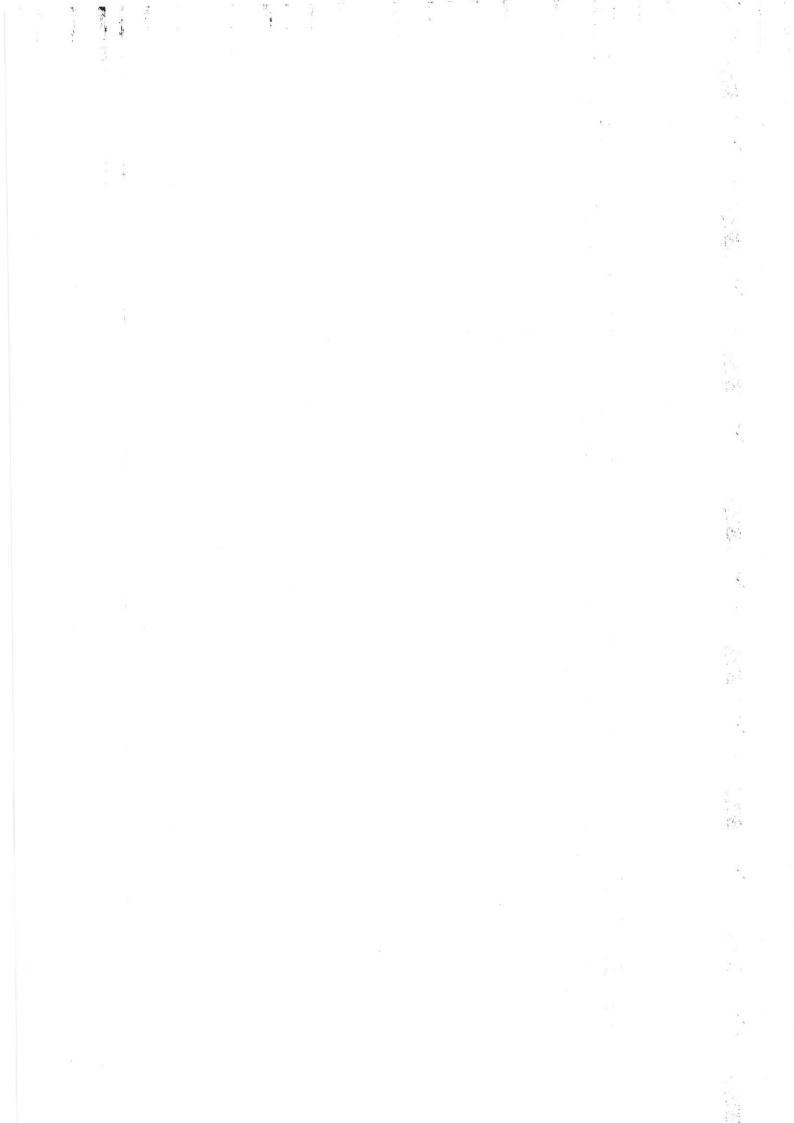
External influences

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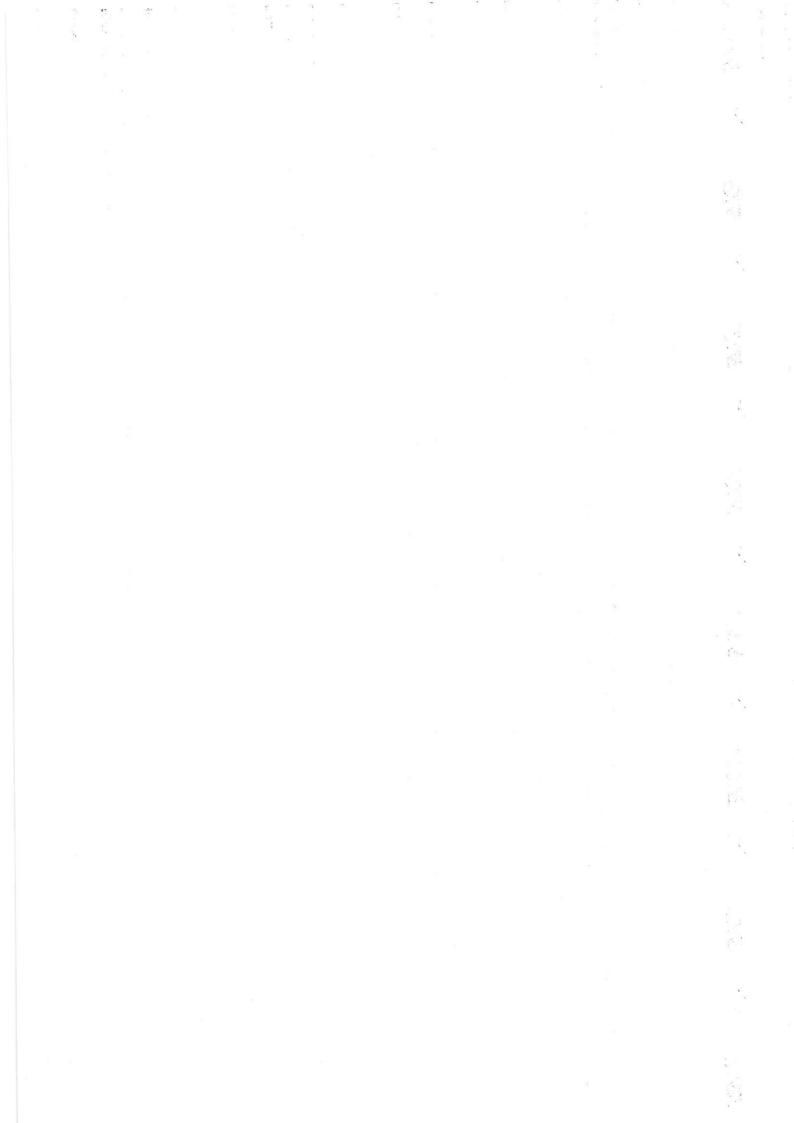
Government and private sector



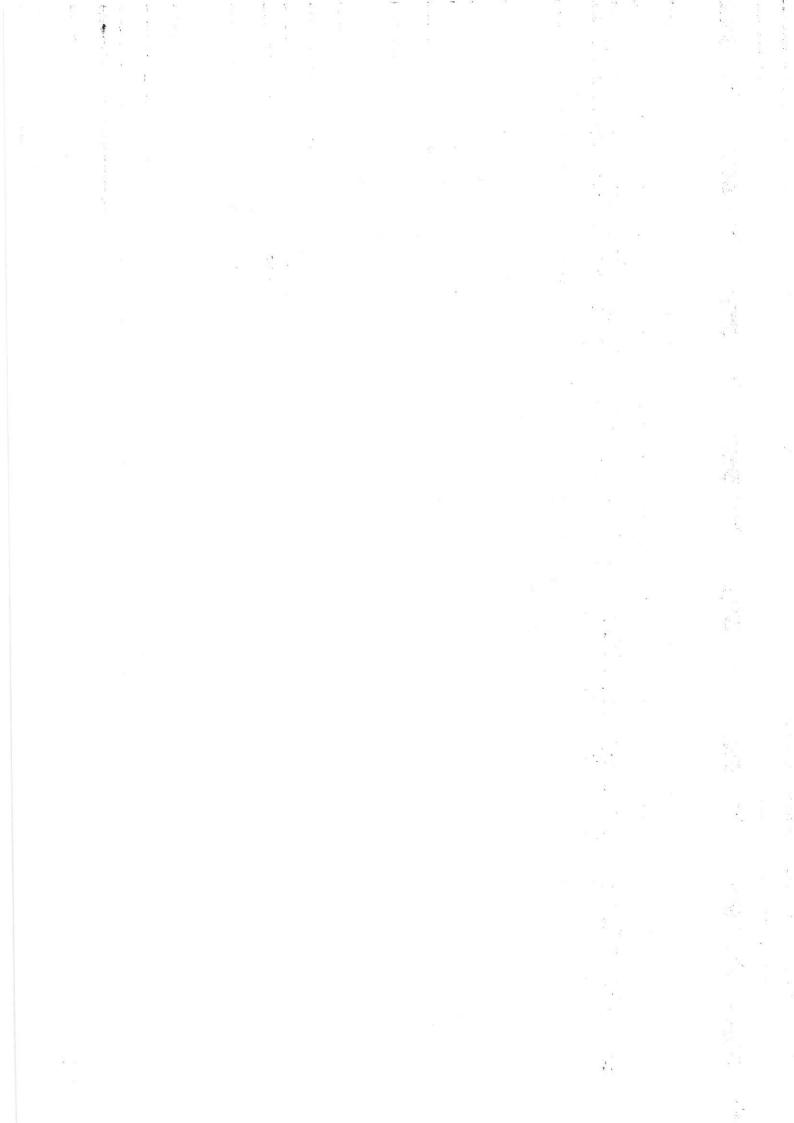
	Prog	ram structur	e	
Program structure	Number of courses	Study unit	Percentage	Notes*
Foundation requirements	8	18	22.9%	Optional - Basic
Institute requirements	5	14	14.2%	Basic
Department requirements	22	64	62.9%	Optional - Basic
Summer training		Satisfied		Basic
Others	-	-	_1	-



	0.1.1	Program description		
Year / Level	Code of the	Name of the course	Approve	d hours
	course	Name of the course	Theoretical	Practical
	MLT115	Analytical chemistry	1	2
	MLT113	Histology and cytological techniques	1	2
	MLT114	Medical laboratory instruments	1	2
	MLT118	Histology	1	2
	TID108	Safety in Labs. And workshop	2	
	MLT117	Basic of nursing	1	2
	NTU102	Computer	1	1
e	NTU101	English language	2	-
First Level	NTU100	Human rights and democracy	2	-
Firs	NTU103	Arabic language	2	-
	MLT119	Organic chemistry	1	2
	MLT112	Medical laboratory techniques	1	2
	TID109	Medical terminology	2	
	MLT120	First aid	2	-
	MLT116	Blood transfusion	1	2
	TID106	Physiology	2	2
	TID110	Anatomy	2	2
	NTU104	Sport	1	1



		Program description		
	Code of		Code of t	he course
Year / Level	the course	Name of the course	Theoretical	Practica
	MLT208	Biochemistry	,	۲
	MLT214	Basic of immunity	3	۲
	MLT206	Protozoa	,	۲
	MLT210	Basics of bacteriology	.)	٢
	MLT209	Viruses	Ŋ	۲
	MLT205	Introduction to hematology	Ŋ	۲
	NTU204	Ethics	۲	-
e	TID202	Statistics	۲	-
Second Level	NTU203	The crimes of the Baath regime in Iraq	Y	-
Se	MLT211	Clinical biochemistry	Y	۲
	MLT216	Immunity and pathogenesis	١	۲
	MLT213	Worms	N	۲
	MLT210	Pathogenic bacteria	١	٢
	MLT212	Medical mycology	١	۲
	MLT217	Cellular blood diseases	١	۲
	NTU202	Arabic language	۲	-
	MLT215	Research project	۲	-



Expected learning outcomes of the program

Knowledge

1. Sufficient knowledge of most of the tests conducted in the laboratory, such as biochemical, immunological, and histological tests, and tests to detect various microorganisms such as bacteria, viruses, and parasites of various types, as well as learning about the physiology and anatomy of various body organs.

2. Correct and safe handling of chemicals, laboratory equipment and laboratory tools used within medical laboratories.

3. Learn safety procedures to avoid risks that may occur during laboratory work, as well as first aid and methods of applying it in emergency situations.

4. Correct and safe handling of various samples received into the medical laboratory to obtain the best results

Skills

1. Identify the various types of laboratory devices and equipment, how they work, and methods of maintaining them for the purpose of sustaining them for long periods.

2. Learn how to manage medical laboratories in a manner consistent with the accuracy of results and the speed of their completion, which ultimately benefits the patient's health.

3. Identify the methods and mechanisms for collecting various samples and ways to preserve them until specific tests are performed on them.

4. The ability to organize laboratory work and how to distribute tasks among individuals and departments of the medical laboratory.

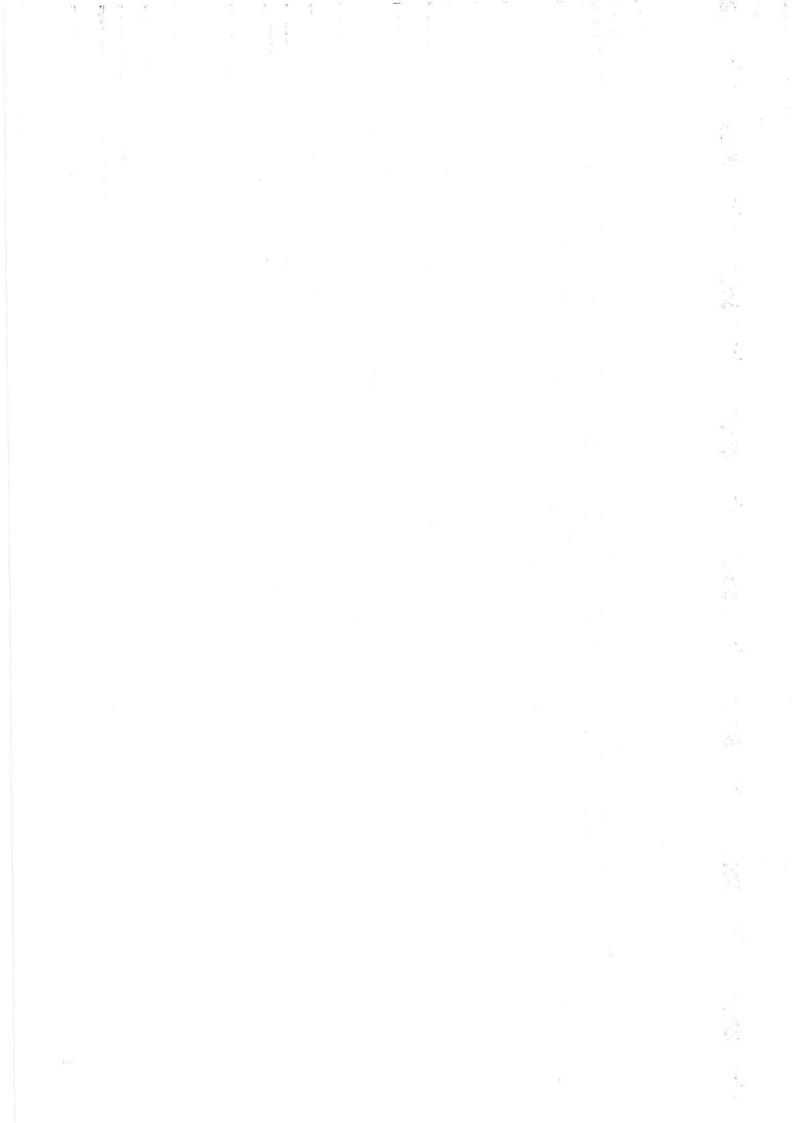
Values

1. Enriching the student with the concepts and foundations of medical laboratory management.

2. Analyzing the problems and obstacles facing laboratory work and how to avoid their occurrence as much as possible.

3. Honesty in conducting tests and confirming information about laboratory samples and the safety of laboratory equipment to ensure obtaining accurate results.

4. Humane treatment of special medical cases in a way that preserves their dignity.



Teaching and learning strategies

1. Explaining the scientific course in detail, using different means of explanation.

2. Seminars focusing on the latest scientific developments related to the course.

3. Field visits to medical institutions for the purpose of examining various disease cases and laboratory methods for diagnosing them.

Evaluation methods

1. Exams (weekly, monthly, daily, and the end-of-year exam), both theoretical and practical.

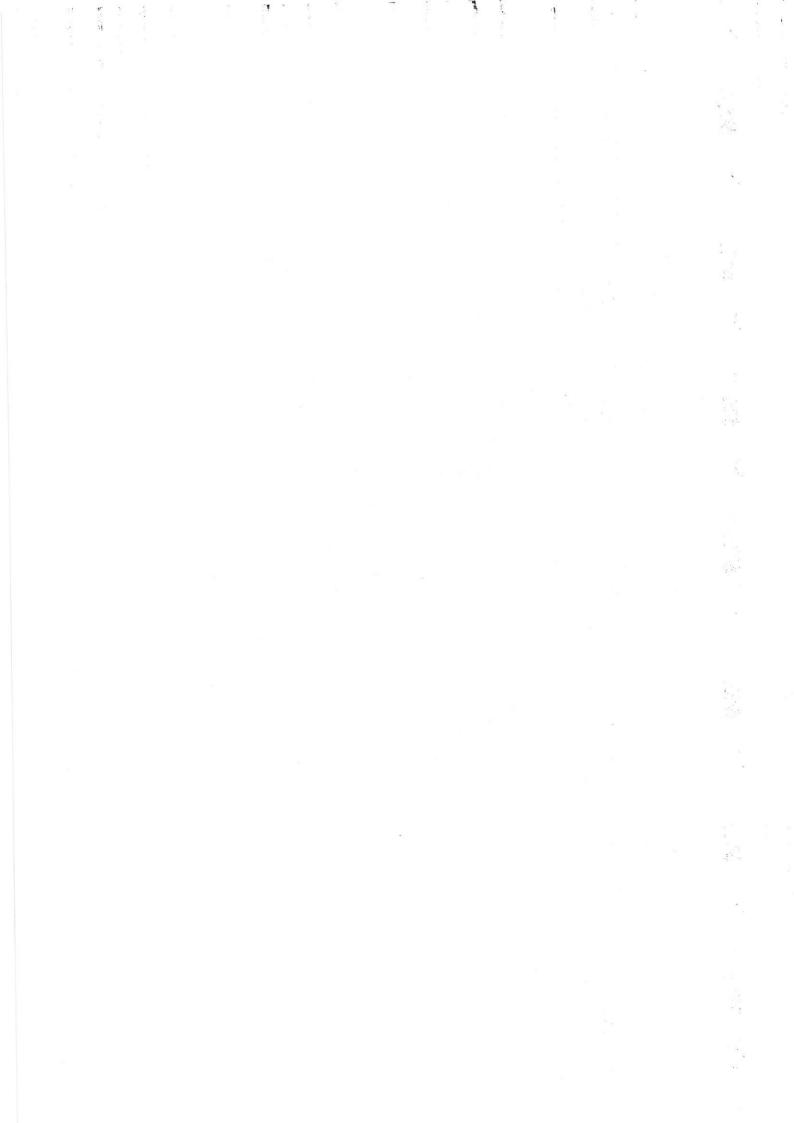
2. Providing monthly reports in various academic courses

3. Summer training

Education Institution

Faculty members

Academic Degree	Spe	cialization	Special requirements /skills	Faculty	members
	Major	Specialization		Staff	Lecturer
Assistant Professor	Biology	Physiology		۲	
Lecturer	Biology	Physiology		۲	
Lecturer	Biology	Molecular genetics		1	
		Physiology		١	
Assistant Lecturer	Biology	medical microbiology)	
Assistant Lecturer	Applied science	Pathological analysis		2	
High diploma	science college	Pathological analysis		1	



Professional development

Orienting new faculty members

Participation in courses focusing on the integrity of the Arabic language, the nature of administrative work, and specialized courses within the field of laboratory work and the research field, in addition to courses on methods and validity of teaching.

Professional development for faculty members

1. Participation in local and international conferences

2. Participation in applied courses and workshops within the department's specializations

Acceptance standard

Students graduating from middle school are accepted through the central admission system on the basis of:

1. Branch (scientific)

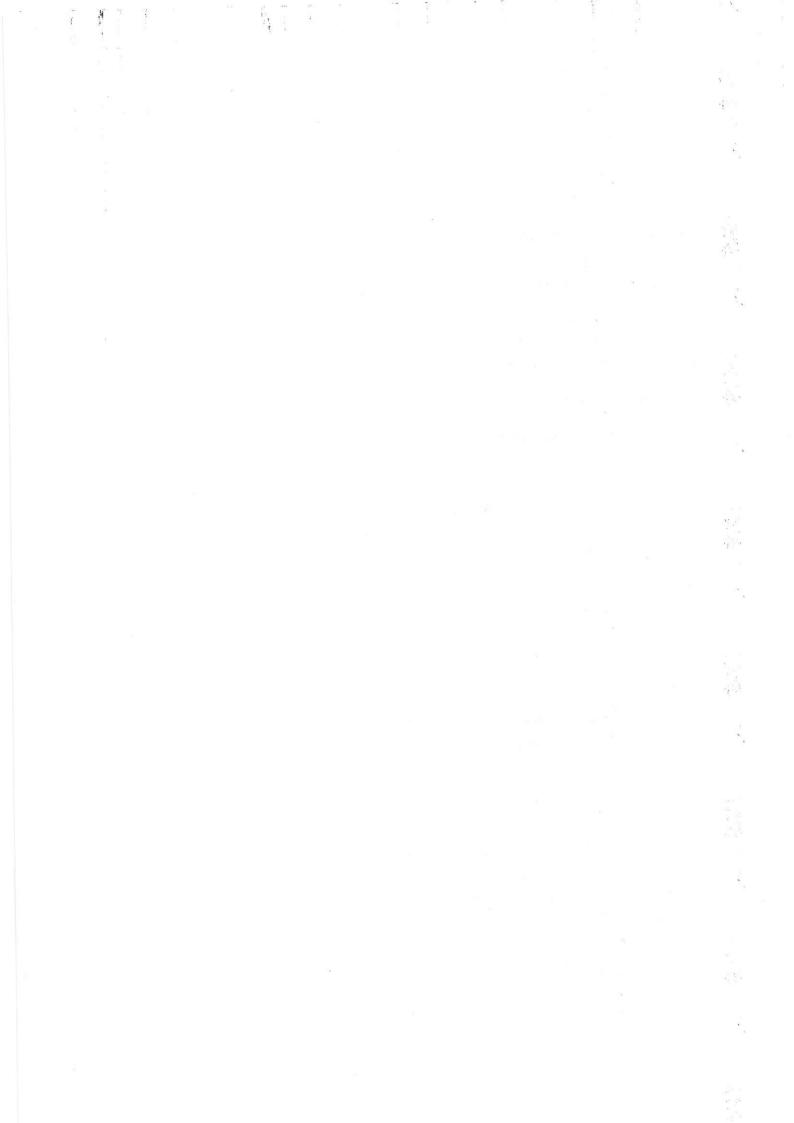
2. Average score

The most important sources of information about the program

- 1. The website of the university and institute
- 2. University guide
- 3. Central Library
- 4. References and sources for the institute and the department
- 5. The World Wide Web

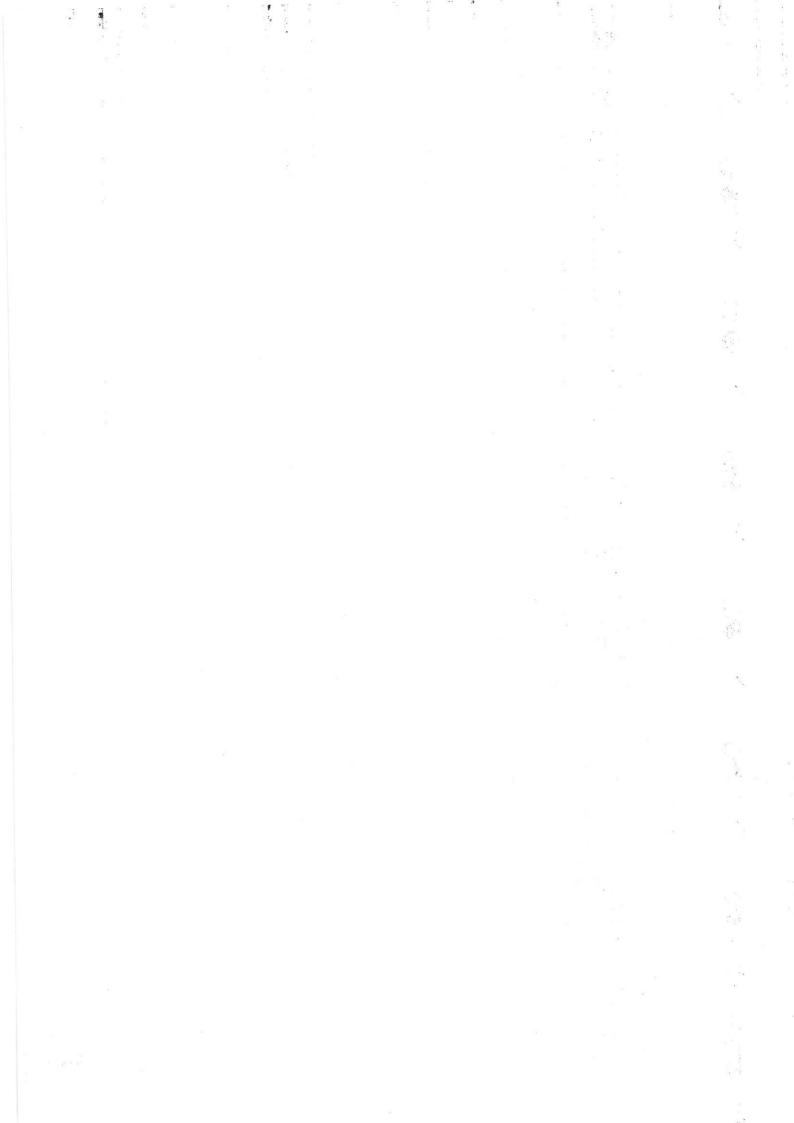
Program development plan

- 1. Cooperation with various local and international universities
- 2. Updating the curriculum for courses in line with scientific development
- 3. Cooperation between local universities through postgraduate student's discussions
- 4. Cooperation with the Ministry of Health departments by supplying medical and technical personnel to teach in the department



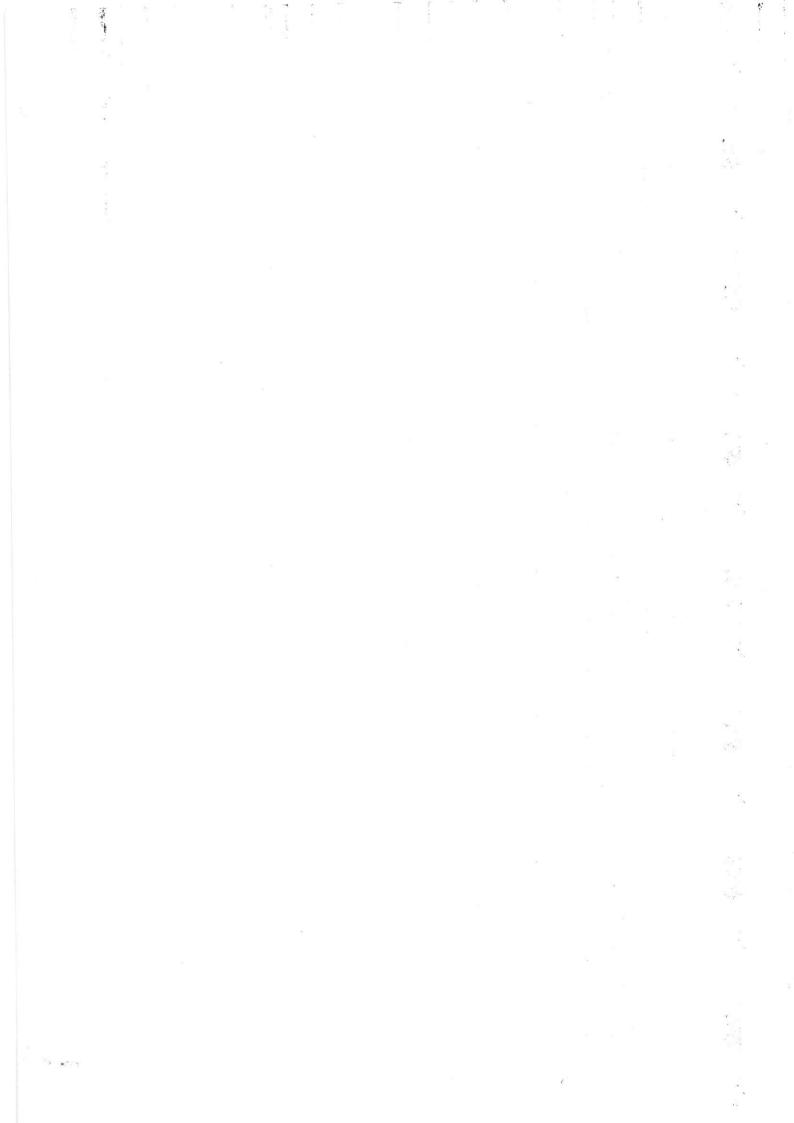
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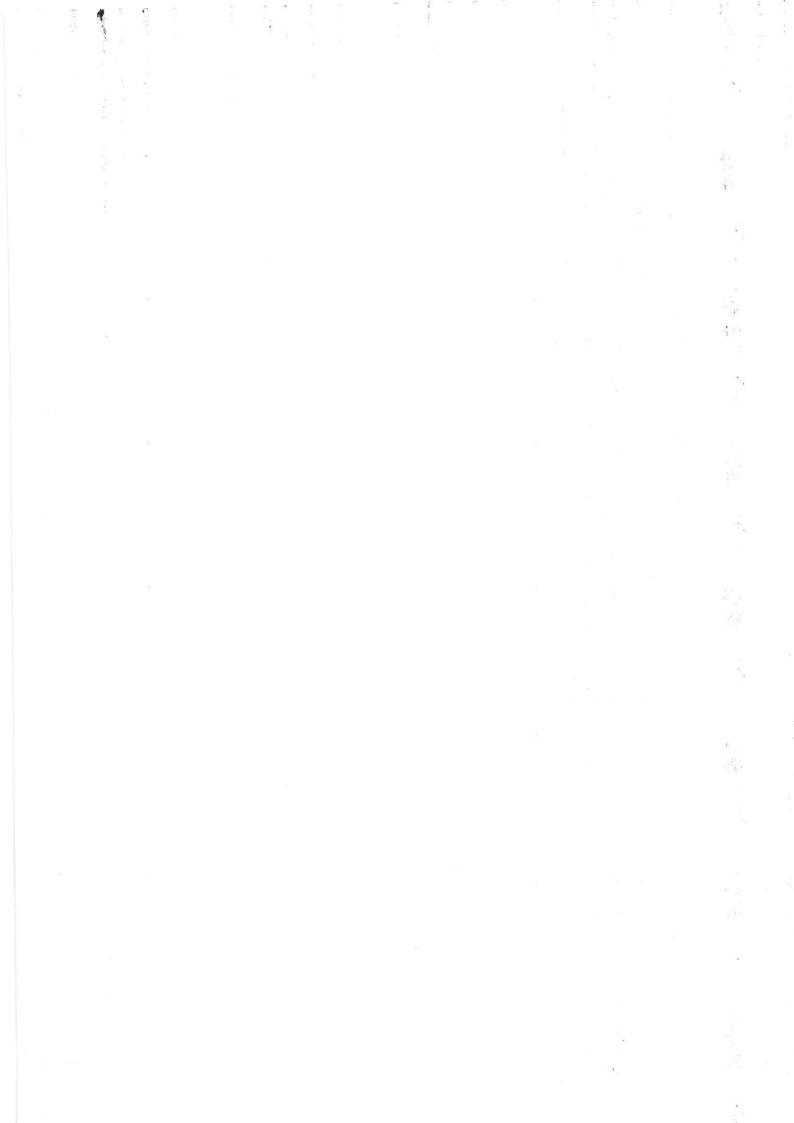


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	Basic	Basic	Basic	Basic	Basic	Basic	Optional	Basic	Basic	Basic	Optional
	English language	Human rights and democracy	Arabic language	Organic chemistry	Medical laboratory techniques	Medical terminology	First aid	Blood transfusion	Physiology	Anatomy	Sport
	NTU101	NTU100	NTU103	MLT119	MLT112	TID109	MLT120	MLT116	TID106	TID110	NTU104
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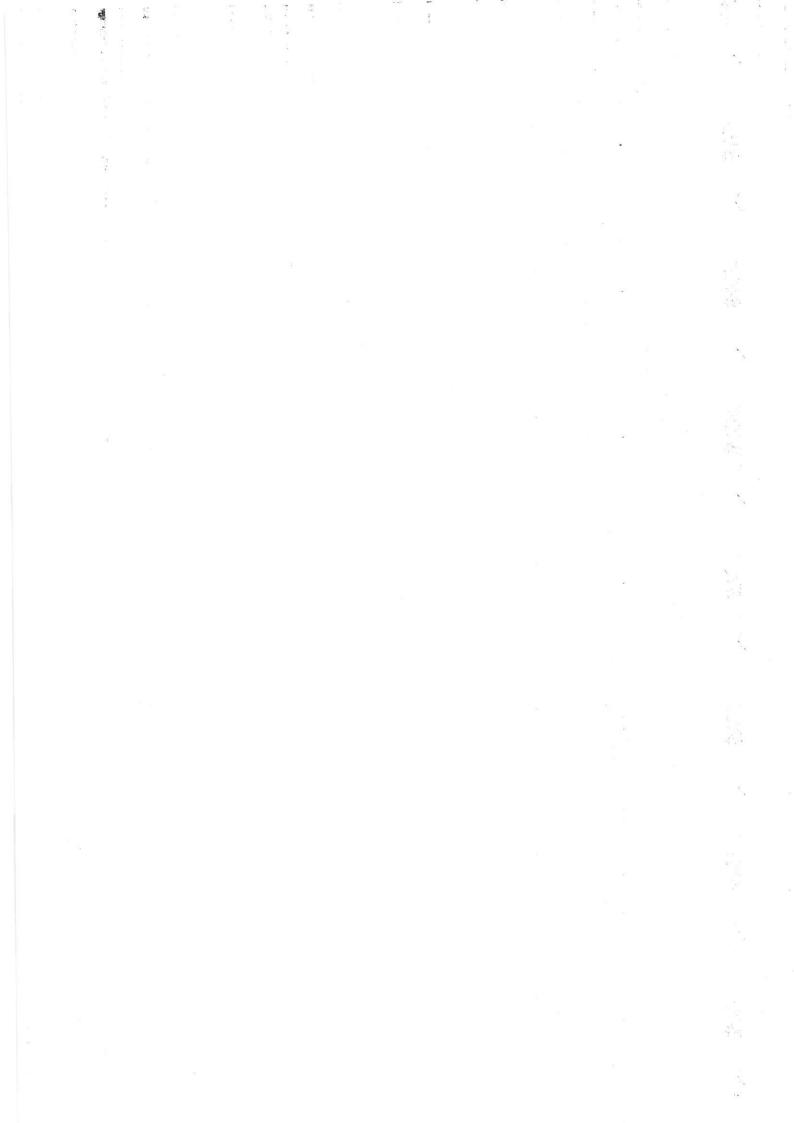
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	Basic	or Optional	Basic	Basic	Basic	Basic	Basic	Basic	Basic	Basic
	Name of	course	Biochemistry	Basic of immunity	Protozoa	Basics of bacteriology	Viruses	Introduction to hematology	Ethics	Statistics
	Code of	course	MLT208	MLT214	MLT206	MLT210	MLT209	MLT205	NTU204	TID202
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Basic	Basic	Basic	Basic	Basic	Basic	Basic	Basic	Basic
The crimes of the Baath regime in Iraq	Clinical biochemistry	Immunity and pathogenesis	Worms	Pathogenic bacteria	Medical mycology	Cellular blood diseases	Arabic language	Research project
NTU203	MLT211	MLT216	MLT213	MLT210	MLT212	MLT217	NTU202	MLT215
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Computer Course Description Form

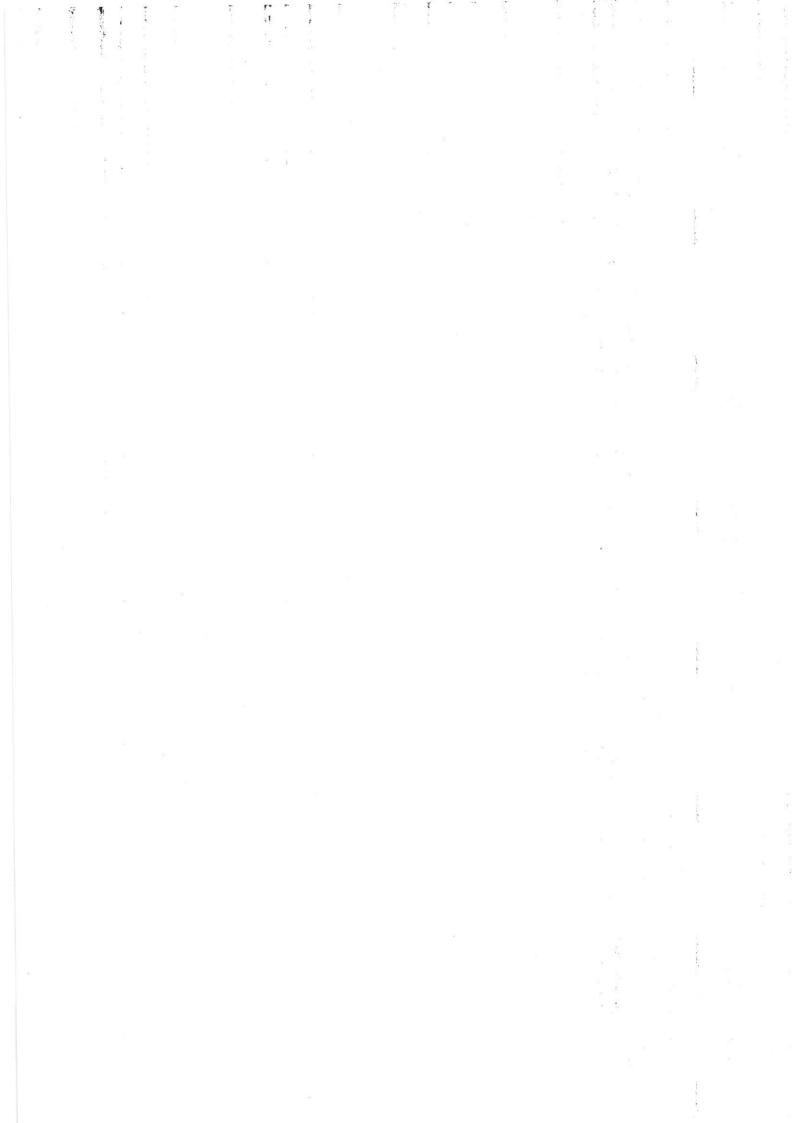
	Name				
computer					
2. Course	Code				
NTU 200					
3. Semeste	er / Leve	1			
Second/seco	ond				
4. Descript	tion of pr	reparation date			
2025/1/26					
5. Availabl	le attenda	ance formats			
weekly atte	ndance				
6. Number	of Credi	t Hours (Total) / Number	er of Units (Total)		
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7. Course (Objective	es			
Course Obj	ectives		• Familiarize the stude	nt with vario	ous computer
			applications and be abl		
			types of software that	-	
			artificial intelligence a		
			with it and how to be		-
				nem from it i	n all areas of
			life.		
8 Teaching	and Lea	rning Strategies			
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DailyStud	y Tests ent grouj	08	Learning method	Attendance Forms	Evaluation method
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 Daily Stud 9. Course Week 	y Tests ent grouj Structur	os re Subject Introduction to	Explanation of the lecture with the presence of means	Forms	Evaluation method Exams
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Daily Stud 9. Course Week First	y Tests ent grouj Structur	re Subject Introduction to artificial intelligence	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means	Forms	
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Daily Stud 9. Course Week First	y Tests ent grouj Structur	re Subject Introduction to artificial intelligence History of artificial intelligence	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture	Forms	Exams
Daily Stud 9. Course Week First	y Tests ent grouj Structur	re Subject Introduction to artificial intelligence History of artificial	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means	Forms	Exams
Daily Stud 9. Course Week First Second	y Tests ent grouj Structur Hours	re Subject Introduction to artificial intelligence History of artificial intelligence Artificial intelligence	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical	Forms Classroom Classroom	Exams
Daily Stud 9. Course Week First Second	y Tests ent grouj Structur Hours	re Subject Introduction to artificial intelligence History of artificial intelligence Artificial intelligence techniques and methods	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application	Forms Classroom Classroom	Exams
Daily Stud 9. Course Week First Second Third	y Tests ent grouj Structur Hours	re Subject Introduction to artificial intelligence History of artificial intelligence Artificial intelligence techniques and methods Challenges and	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture	Forms Classroom Classroom Classroom	Exams Exams Exams
Daily Stud 9. Course Week First Second	y Tests ent grouj Structur Hours	re Subject Subject Introduction to artificial intelligence History of artificial intelligence Artificial intelligence techniques and methods Challenges and ethical considerations	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means	Forms Classroom Classroom	Exams
Daily Stud Stud Second Third	y Tests ent grouj Structur Hours	re Subject Introduction to artificial intelligence History of artificial intelligence Artificial intelligence techniques and methods Challenges and	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture	Forms Classroom Classroom Classroom	Exams Exams Exams

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Fifth	١	Artificial intelligence in smartphones and virtual assistants such as siri / Google assistant	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Sixth	,	Applications of artificial intelligence in education, health, finance, transport and marketing	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Seventh	١	The impact of artificial intelligence on society	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eighth	١	Artificial intelligence and international relations	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Ninth	١	Artificial intelligence and the future of humanity.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Tenth	١	Ethics of artificial intelligence	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eleventh	Ņ	Artificial intelligence, privacy and surveillance	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Twelfth	1	Future directions in artificial intelligence	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Thirteenth	,	Modern research and emerging technologies in the field of artificial intelligence	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fourteenth	,	Future outlook	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams



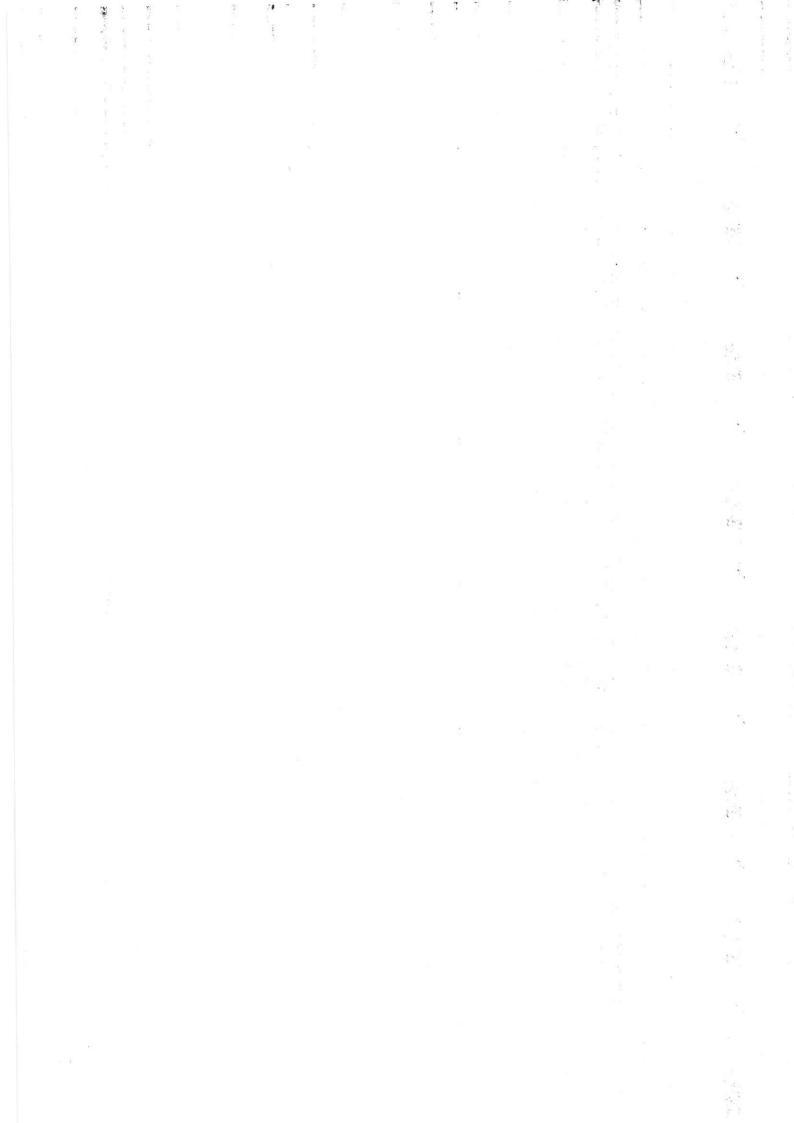
Fifteenth	Ŋ	The role of intelligence in smartphones	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
10. Course	Evaluati	ion			
Daily, month	hly, and f	final exams as well as y	weekly reports		
		eaching Resources			
Textbooks	_				
Main referen	nces				
Scientific re	sources v	within the Internet			



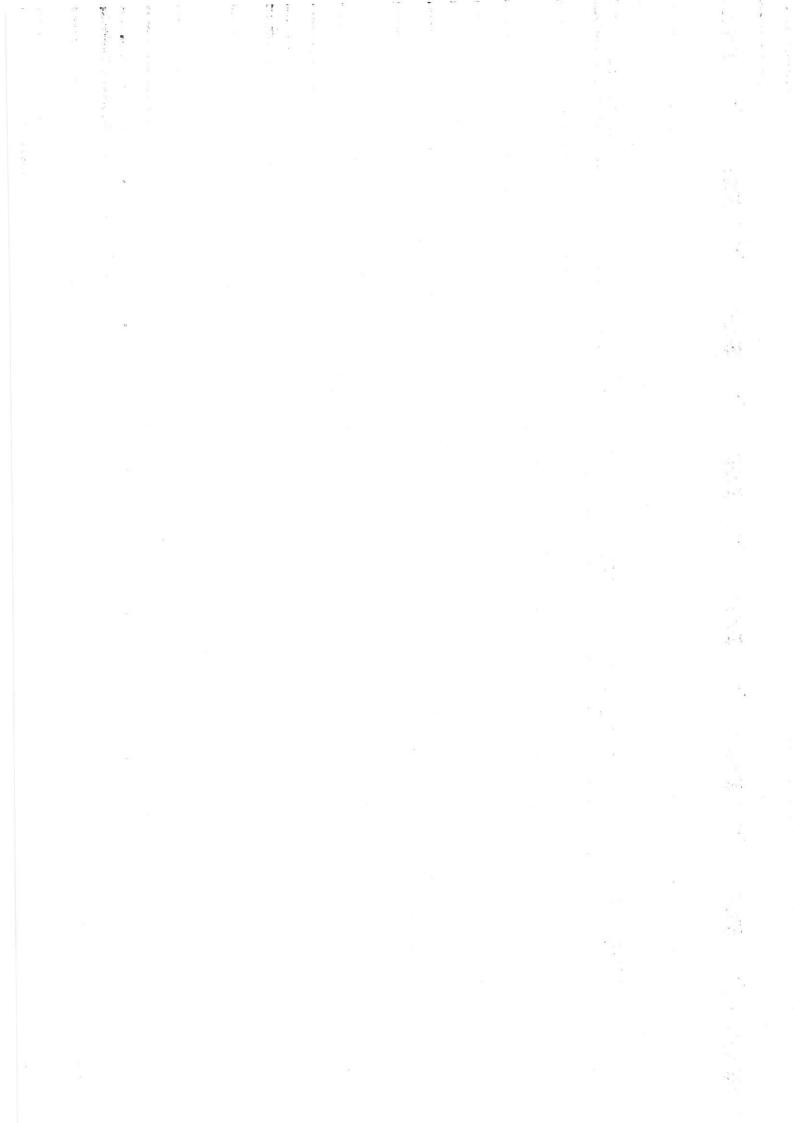
Statistics Course Description Form

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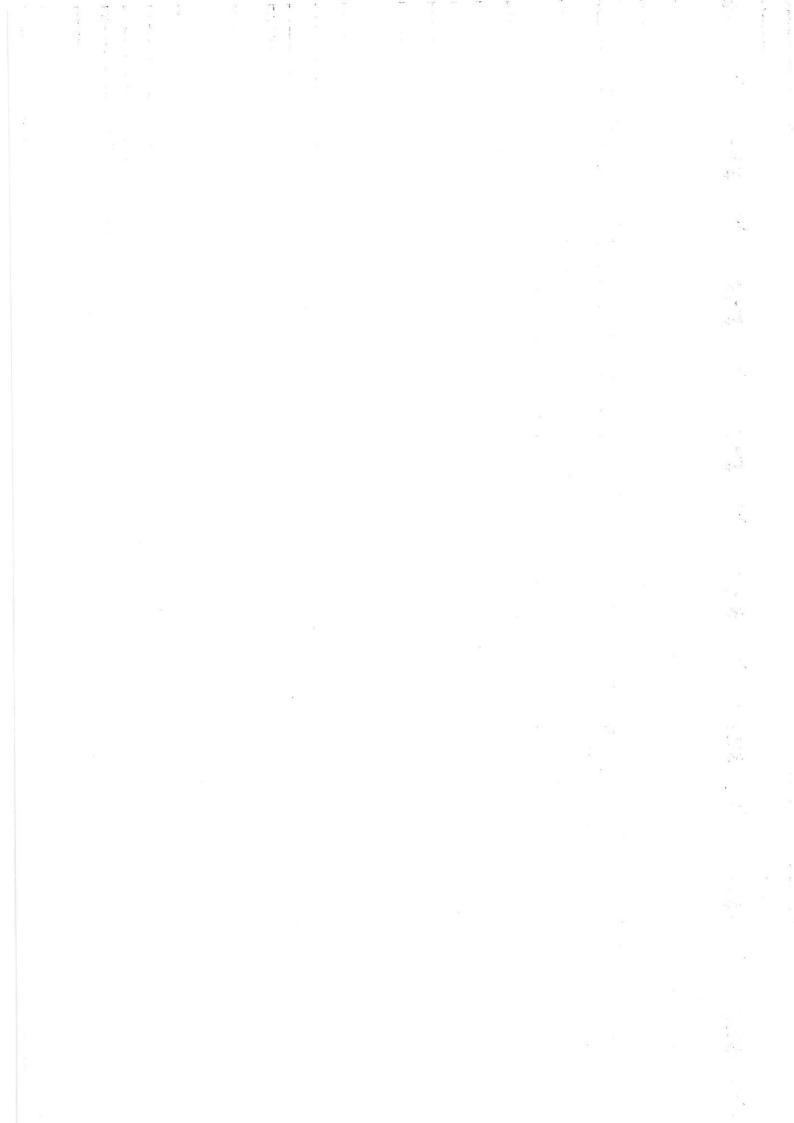
1. Course	e Name				
Statistics					
2. Course	e Code				
TID202					
3. Semes	ter / Leve	:1			
Second / S	Second				
4. Descri	ption prep	paration date			
26/1/2025					
		ance formats			
Attendance					
	er of Cred	it Hours (College) / Numbe	er of Units (College)	和 当时和1993年3	
2/30					
7. Course		es			
Course O	bjectives			with various sta applications wit cories.	
AdDa:Stu		•			
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	3	Basic concepts in mathematics	Explanation of the lecture with the presence of means of		
		munomunos	illustration and	Classroom	Exams
Second	3	Division equation	illustration and practical application Explanation of the lecture with the presence of means of illustration and	Classroom	Exams Exams
Second	3		illustration and practical application Explanation of the lecture with the presence of means of		



Fifth	3	Statistical concepts	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Sixth	3	The concept of probability	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Seventh	3	Calculation and counting techniques	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eighth	3	Probability distribution	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Ninth	3	Frequency distribution table	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Tenth	3	Measures of central tendency	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eleventh	3	Methods of data classification and tabulation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Twelfth	3	Derivative	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Thirteenth	3	Derivative of Trigonometric Functions	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fourteenth	3	Integration	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams



Fifteenth	3	Deviation and contrast	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
10. Cours	e Evaluat	tion			
Daily, mon	thly and	final exams as well as week	dy reports		
11. Learn	ing and T	eaching Resources			
Textbooks					
Main refere	ences				
Scientific r	esources	within the Internet			

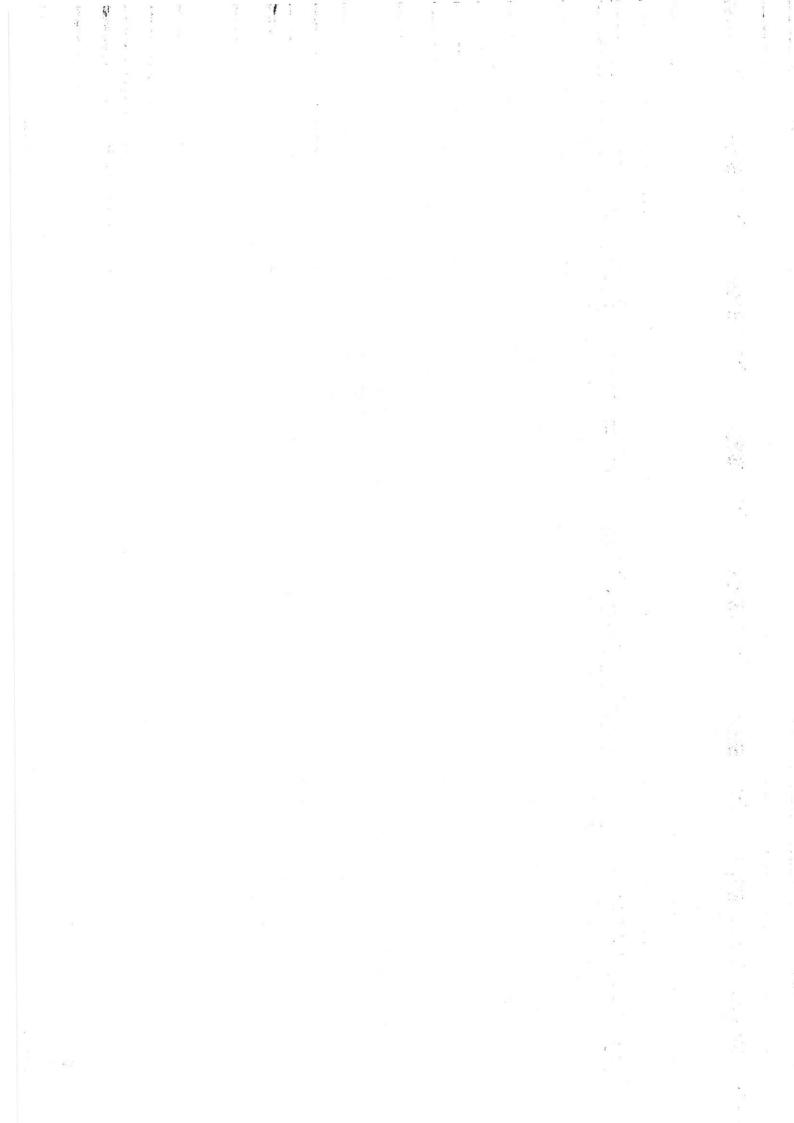


Laboratory Equipment Course Description Form

	Name								
Laboratory		ent							
2. Course	Code								
MLT114									
3. Semeste	er / Leve	1							
First /First				÷.					
	tion prep	aration date							
26/1/2025									
the second	5. Available attendance formats								
and the second	Attendance on a weekly basis								
	6. Number of Credit Hours (Total) / Number of Units (Total)								
45/3									
7. Course	7. Course administrator name								
8. Course	Objective	es							
Course Ob	jectives		 Cover and unders 	stand the various to	ools and devices				
	used in medical laboratories								
9. Teachin									
• Ade	quate exp	planation of the course							
Dail	• Daily Tests								
		os							
	Student groups								
• Field visits									
• 1101	u visits								
	e Structur	°e							
			Learning method	Attendance	Evaluation method				
10. Course	e Structur	re Subject	Learning method	Attendance Forms	Evaluation method				
10. Course	e Structur		Explanation of the		Evaluation method				
10. Course Week	e Structur Hours	Subject	Explanation of the lecture with the						
10. Course	e Structur		Explanation of the lecture with the presence of means of	Forms	Evaluation method Exams				
10. Course Week	e Structur Hours	Subject Types of microscope	Explanation of the lecture with the presence of means of illustration and	Forms Classroom and					
10. Course Week	e Structur Hours	Subject Types of microscope	Explanation of the lecture with the presence of means of illustration and practical application	Forms Classroom and laboratory					
10. Course Week	e Structur Hours	Subject Types of microscope	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the	Forms Classroom and laboratory Classroom and					
10. Course Week First	e Structur Hours 3	SubjectTypes of microscope and its usesLight microscopy,	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the	Forms Classroom and laboratory	Exams				
10. Course Week	e Structur Hours	SubjectTypes of microscope and its usesLight microscopy, working principle and	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of	Forms Classroom and laboratory Classroom and					
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10. Course Week First	e Structur Hours 3	SubjectTypes of microscope and its usesLight microscopy, working principle and	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application	FormsClassroom and laboratoryClassroom and laboratory	Exams				
10. Course Week First	e Structur Hours 3	Subject Types of microscope and its uses Light microscopy, working principle and its parts	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the	FormsClassroom laboratoryand and laboratoryClassroom laboratoryand and laboratoryClassroom and andand	Exams				
10. Course Week First Second	e Structur Hours 3 3	SubjectTypes of microscope and its usesLight microscopy, working principle and its partsMicroscope	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the	FormsClassroom and laboratoryClassroom and laboratory	Exams				
10. Course Week First	e Structur Hours 3	SubjectTypes of microscope and its usesLight microscopy, working principle and its partsMicroscope maintenance How to	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of	FormsClassroom laboratoryand and laboratoryClassroom laboratoryand and laboratoryClassroom and andand	Exams				
10. Course Week First Second	e Structur Hours 3 3	SubjectTypes of microscope and its usesLight microscopy, working principle and its partsMicroscope	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and	FormsClassroom laboratoryand and laboratoryClassroom laboratoryand and laboratoryClassroom and andand	Exams				
10. Course Week First Second	e Structur Hours 3 3	SubjectTypes of microscope and its usesLight microscopy, working principle and its partsMicroscope maintenance How to	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application	FormsClassroom laboratoryand and laboratoryClassroom laboratoryand and laboratoryClassroom laboratoryand and and laboratory	Exams				
10. Course Week First Second	e Structur Hours 3 3	Subject Types of microscope and its uses Light microscopy, working principle and its parts Microscope maintenance How to maintain its durability	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the	FormsClassroom laboratoryand laboratoryClassroom laboratoryand laboratoryClassroom laboratoryand and laboratoryClassroom and laboratoryand and	Exams Exams				
10. Course Week First Second	e Structur Hours 3 3	SubjectTypes of microscope and its usesLight microscopy, working principle and its partsMicroscope maintenance How to maintain its durabilityElectronic scale, types	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the	FormsClassroom laboratoryand and laboratoryClassroom laboratoryand and laboratoryClassroom laboratoryand and and laboratory	Exams				
10. Course Week First Second Third	e Structur Hours 3 3 3	Subject Types of microscope and its uses Light microscopy, working principle and its parts Microscope maintenance How to maintain its durability	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the	FormsClassroom laboratoryand laboratoryClassroom laboratoryand laboratoryClassroom laboratoryand and laboratoryClassroom and laboratoryand and	Exams Exams				

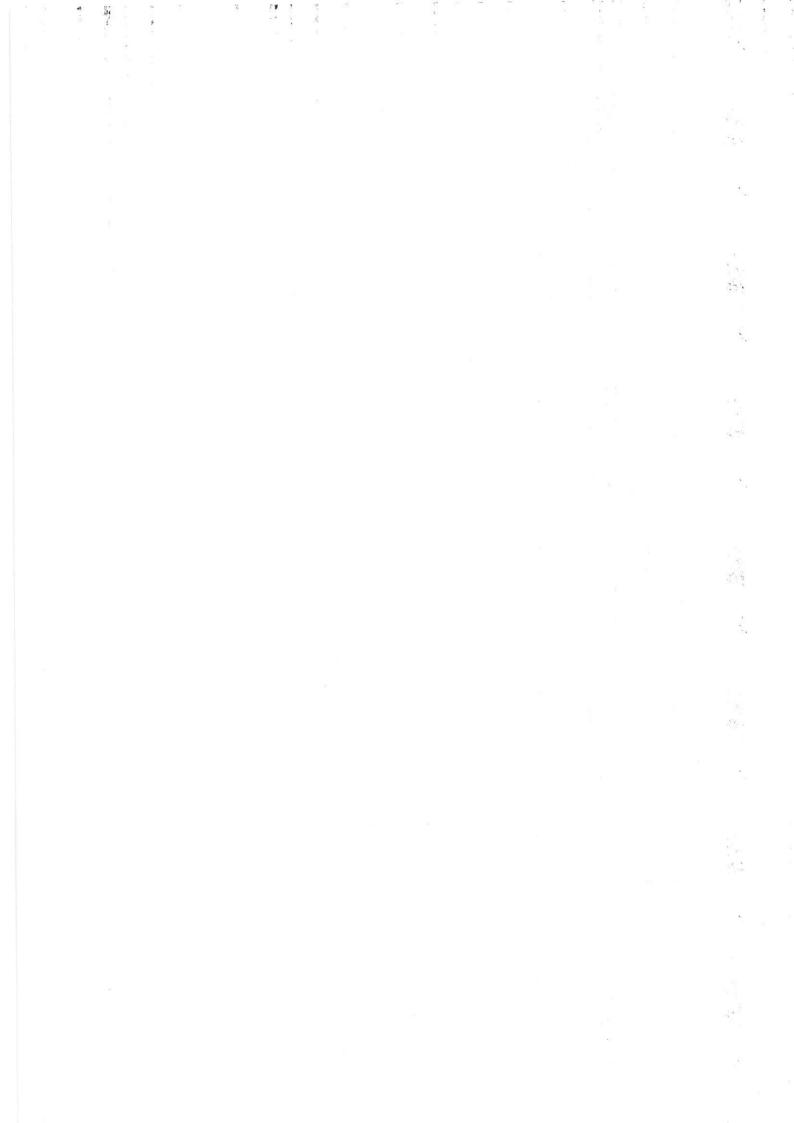
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			practical application		
		The principle of	Explanation of the	Classroom and	
			lecture with the	laboratory	
Fifth	3	operation and	presence of means of		Exams
		operation of the	illustration and		
		electronic balance	practical application		
			Explanation of the	Classroom and	
			lecture with the	laboratory	
Sixth	3	Electronic Scale	presence of means of	laboratory	Exams
Sixtii		Maintenance	illustration and		Lixumo
i.					
			practical application	01 1	
			Explanation of the	Classroom and	
Constant	2	Definition of a	lecture with the	laboratory	Exams
Seventh	3	photometer	presence of means of		Exams
		r	illustration and		
			practical application		
			Explanation of the	Classroom and	
		Light and wave longth	lecture with the	laboratory	
Eighth	3	Light and wave length	presence of means of	20	Exams
			illustration and		
			practical application		
			Explanation of the	Classroom and	
			lecture with the	laboratory	
Ninth	3	Beer-Lambert's Law	presence of means of		Exams
			illustration and	6	
-11			practical application		
			Explanation of the	Classroom and	
			lecture with the	laboratory	
Tenth	3	Optical spectrometer	presence of means of	lucorutory	Exams
i chtth	5	optical spectrometer	illustration and		
			practical application		
			Explanation of the	Classroom and	
		The working principle	lecture with the		
Eleventh	2	The working principle		laboratory	Exams
Eleventh	3	of the optical	presence of means of		
		spectrometer device	illustration and		
			practical application	01 1	
			Explanation of the	Classroom and	
T 101	-	Types of optical	lecture with the	laboratory	Exams
Twelfth	3	spectrometers	presence of means of		Exams
			illustration and		
			practical application		
			Explanation of the	Classroom and	
	_	Parts of the optical	lecture with the	laboratory	Froms
Thirteenth	3	spectrometer	presence of means of		Exams
		specificiti	illustration and		
			practical application		
		Maintenance of the	Explanation of the	Classroom and	
Fourtoonth	3		lecture with the	laboratory	Exams
Fourteenth	5	optical spectrometer	presence of means of		
			illustration and		



			practical application	
Fifteenth	3	Flame Photometer	Explanation of the lecture with the presence of means of illustration and practical application	Exams
11. Cours	se Evaluat	tion		
Daily, mon	thly and t	final exams as well as w	eekly reports	
12. Learn	ing and T	eaching Resources		
Textbooks				
Main refere	ences			
Scientific r	research			
Scientific r	esources	within the Internet		

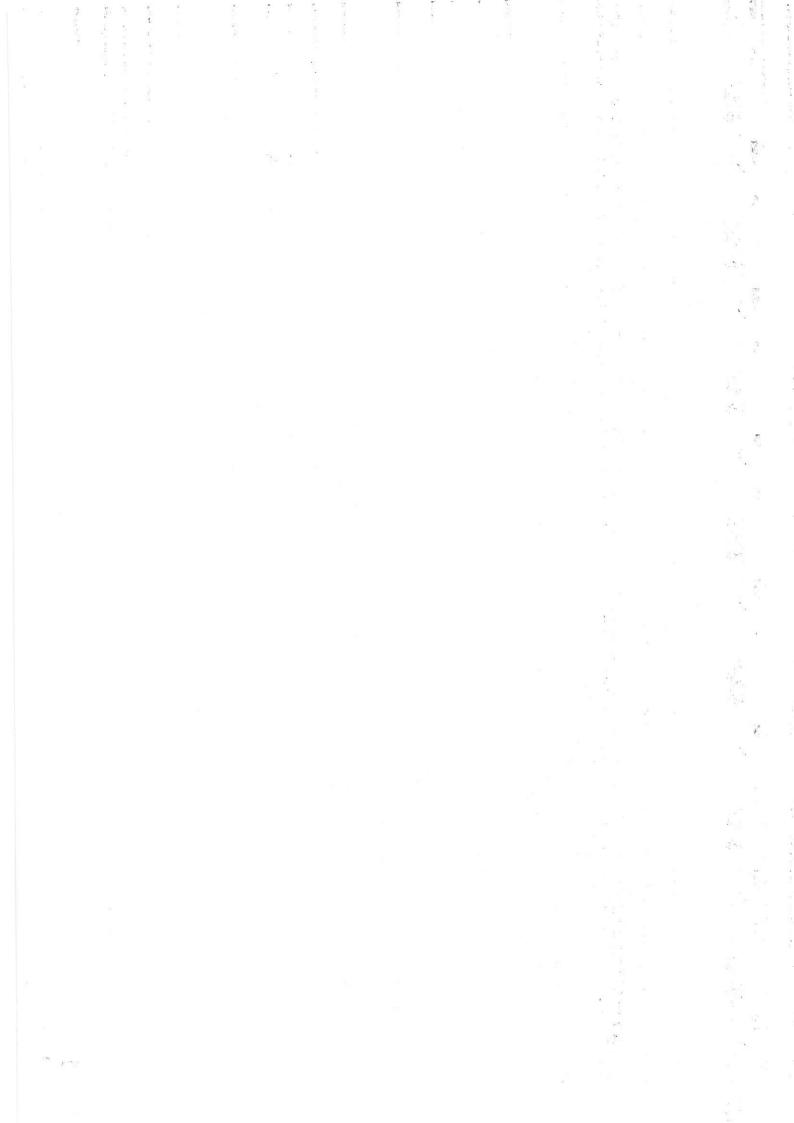
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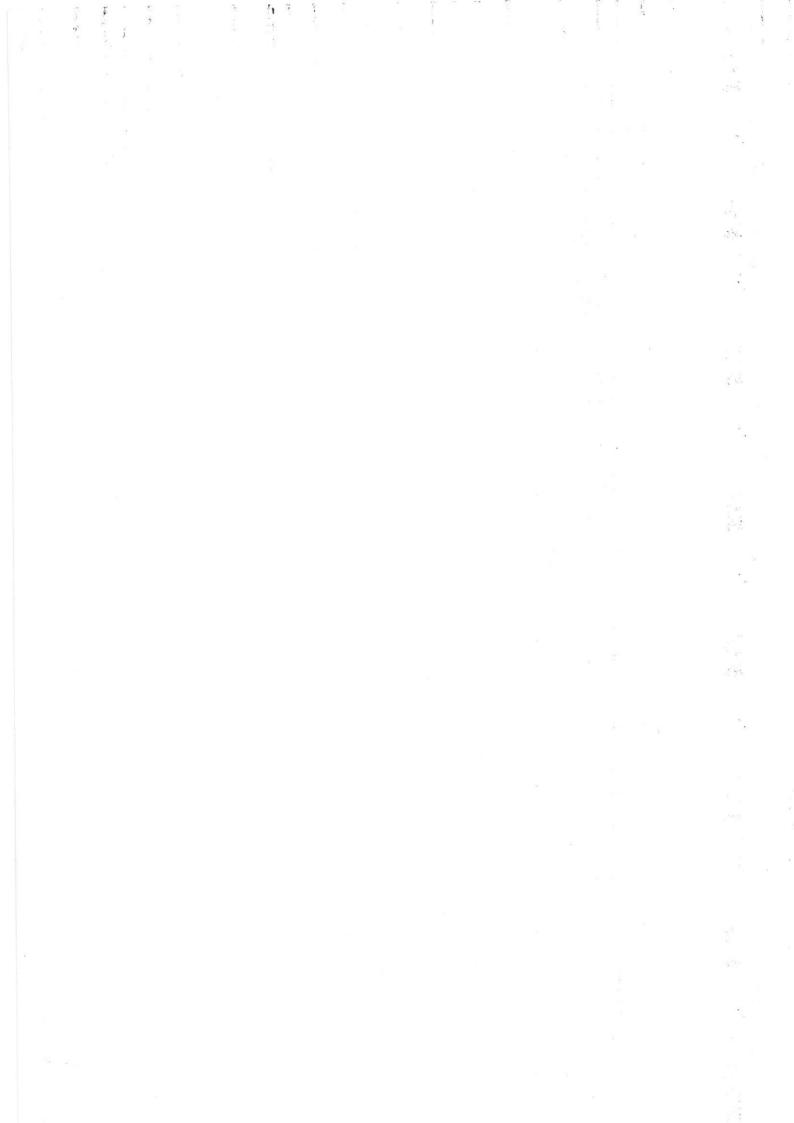
Professional Ethics Course Description Form

1. Course	Name					
Professiona						
2. Course						
NTU204						
3. Semest	er / Leve	1				
First / Seco	ond					
4. Descrip	otion prep	aration date				
26/1/2025						
5. Availab	ole attenda	ance formats				
Attendance						
	r of Credi	it Hours (Total) / Number of Un	nits (Total)			
2/30			-		18 U	
7. Course		es				
Course Ob	ojectives		• Identify the	basic ethics of t	he profession	
			for workers	in medical spe	cialties and	
			qualify the g	raduate to deal	professionally	
			with his	profession a	nd achieve	
compatibility with himself and his						
	environment (the					
companions, health workers and medical						
			devices).	neurin workers	und medical	
			devices).			
8. Teachin	g and Lea	arning Strategies				
• Ade	equate exp	planation of the course				
• Dai	ly Tests					
• Stud	dent grou	ps				
9. Cours	e Structur	re				
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method	
		- Principles of professional				
5		ethics in the stages of	Explanation of the			
		civilizational developments.	lecture with the			
		- Principles of professional	presence of means		Exams	
First	3	ethics in Arab and Islamic	of illustration and	Classroom	Exams	
		civilization.	practical			
		- Etiquette of dealing with	application			
5		patients in hospitals since ancient times until now.				
		Professional behavior:	Explanation of the			
		definition, concept, practical	lecture with the			
		applications, relationship	presence of means	CI	Exams	
Second			1	Classroom	L'Aams	
Second	3		of illustration and	Clussicolli		
Second	3	between employees and their superiors.	of illustration and practical	Chubbroom		

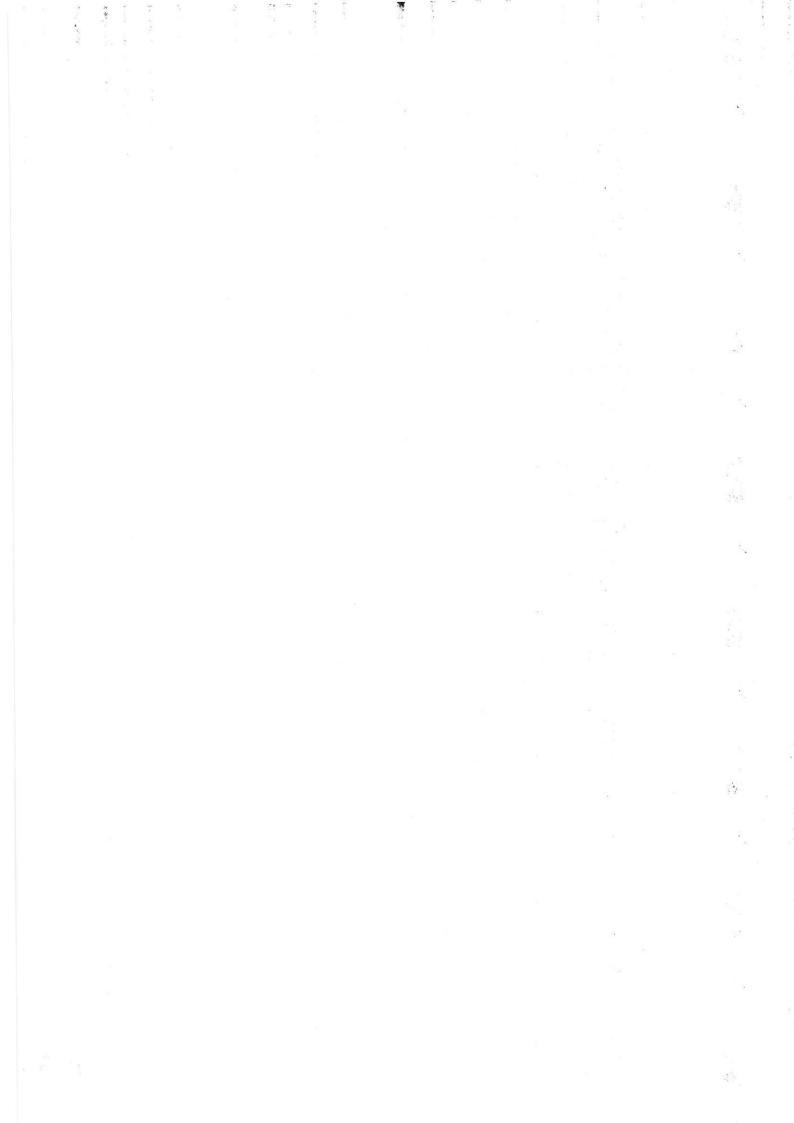
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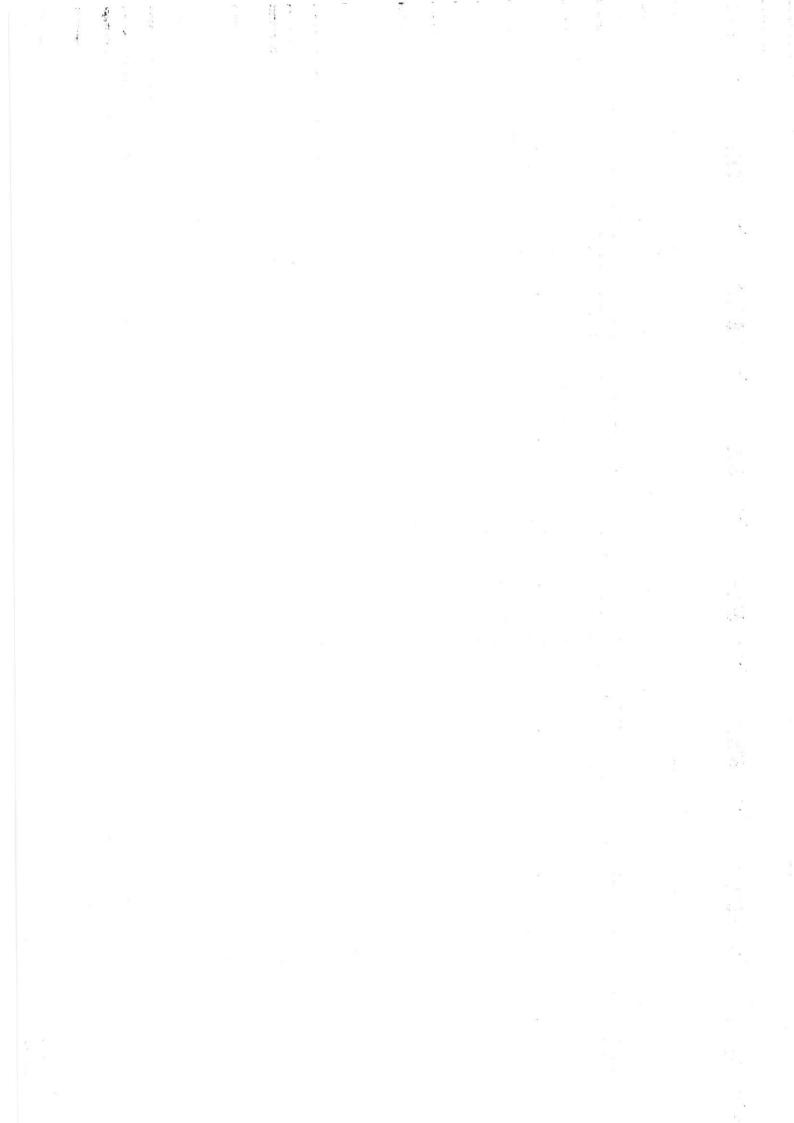
	1	Basic ethics of the profession			
Third	3	 Characteristics of the profession Characteristics of professional ethics as a guide and guide for behavior. How to employ professional ethics from the position of the guide to the behavior of the individual and his emotions and his ability to make the appropriate decision. Characteristics and qualities of health workers Appearance, behavior and commitment. Moral and legal rights of the patient 	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fourth	3	Behavioral / human - interactive - collective patterns. Its definition, nature, motives, interpretations, and factors affecting it.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fifth	3	Communication/linguistic and non-linguistic styles - Definition, types, effects, design of successful communication methods. - How communication styles affect behavior, listening and listening, and how to practice it with practical examples.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Sixth	3	Behavioral attitudes and tendencies. - Definition, classification, factors affecting them, methods of measurement.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Seventh	3	 Values, customs and traditions. Definition, classification, factors affecting them, methods of measurement. 	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eighth	3	Personality styles and how to deal with them. - Definition of personality - types - relationship to the profession. - Technician's personality and manifestations	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams



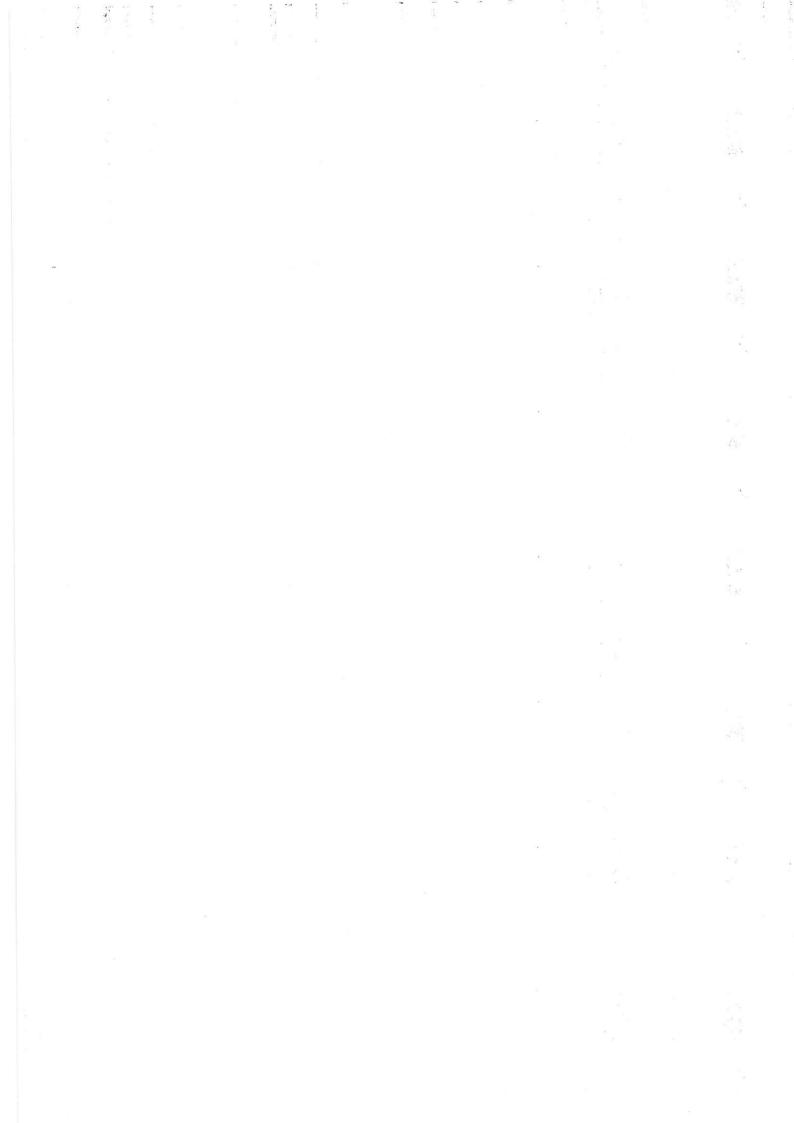
Ninth	3	Conditions for improving mental health - Definition, factors affecting it, prevention of mental illness, the role of mental health in professional preparation.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Tenth	3	Conditions of professional compatibility and associated employment relationship. - Concept, conditions, poor professional availability.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eleventh	3	Job description of the graduate's work	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Twelfth	3	 Behavioral dealing with the patient. Receiving the patient, dealing with him, gaining his trust and maintaining the secrets of the profession. Scheduling the requirements of the required procedure. Maintaining the patient's needs. 	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Thirteenth	3	Behavioral handling of medical devices and	Explanation of the lecture with the presence of means of illustration and	Classroom	Exams



		equipment. - Daily access to devices, tools, solutions and other requirements and preparing them for daily work, sustaining, maintaining and maintaining them. - Preparing the necessary medicines for work and good disposition of them.	practical application		
Fourteenth	3	Occupational Safety -Prevention of work hazards and accidents. - Prevention of the risks of bacterial, toxic and radioactive contamination. - Prevention of thoughts of infection with infectious and communicable diseases. - Avoid wrong practices in the field of work.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fifteenth	3	Applications in professional conduct. - Field visits to hospitals and other health institutions	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

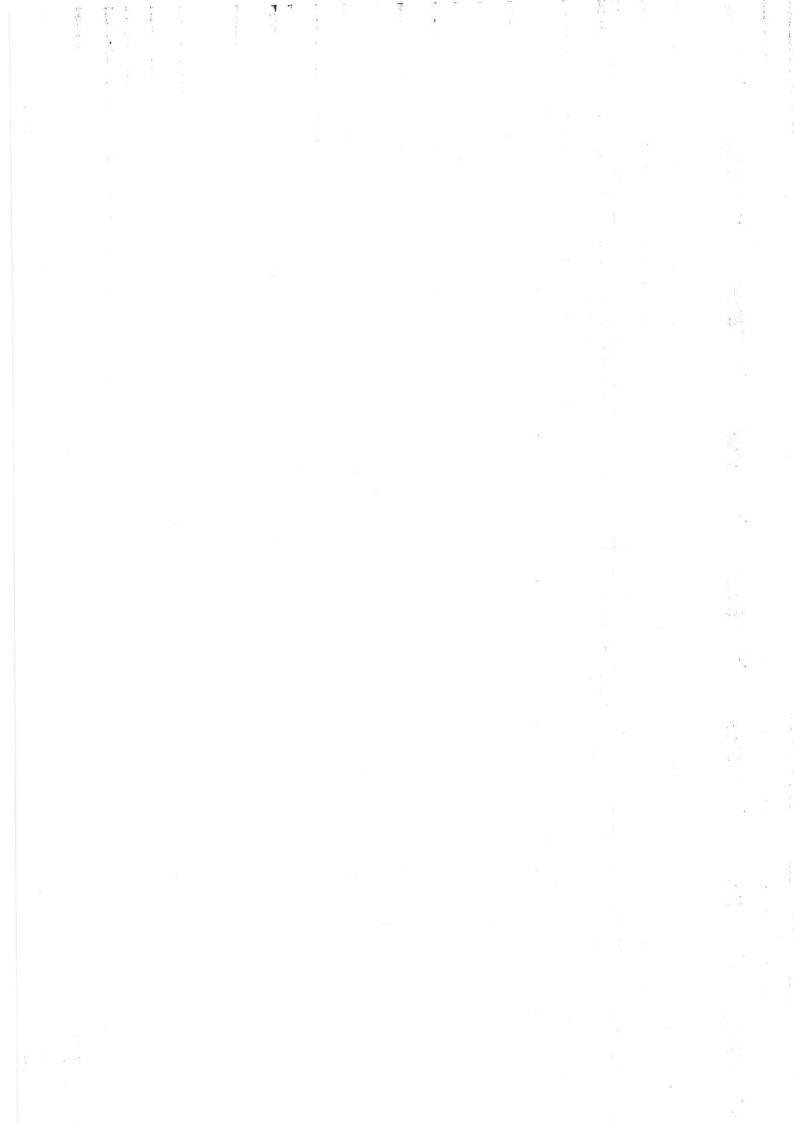


experience and information. 0. Course Evaluation Daily, monthly and final exams as well as weekly reports 1. Learning and Teaching Resources	
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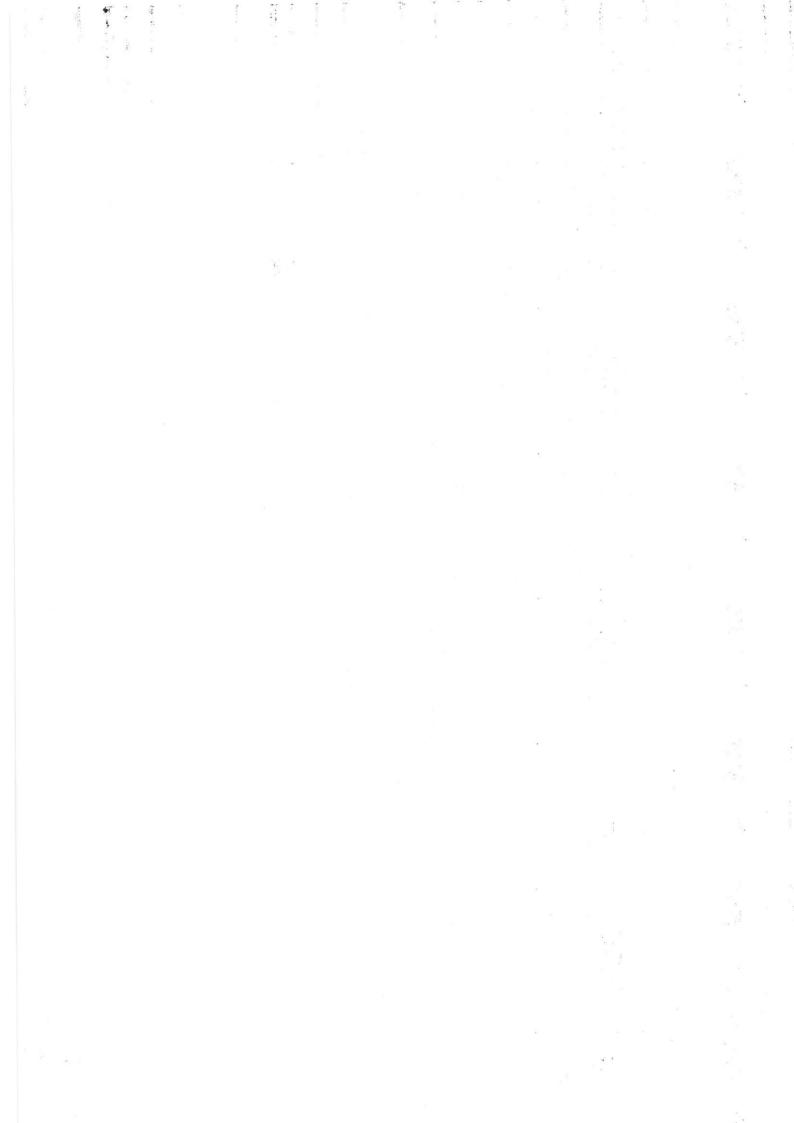
Fundamentals of Bacteriology Course Description Form

1. Course	Name				
Fundament		cteriology			
2. Course					
MLT210					
3. Semest	er/Level				
First / Seco	ond				
4. Descrip	otion prep	aration date			
26/1/2025				n:	
5. Availal	ole attenda	ance formats			
Attendance	e on a wee	kly basis			
6. Numbe	r of Credi	t Hours (Total) / Number	of Units (Total)		
45/3					
7. Course	Objective	es			
Course Of	ojectives		bacteriology, cla cell structure an growth and met affecting it, metab	ovide a broad i ssification of bac ad mode of opera- thods of estimation polism, genetics an portance of bacteria	eteria, bacterial ation, bacterial on and factors d the biological
• Fie	dent grou ld visits se Structu	•			
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	3	Introduction to Bacteriology	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Second	3	The structure and shape of bacteria, the classification of bacteria, the chemical composition and secondary structure of	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
		the bacterial cell.			

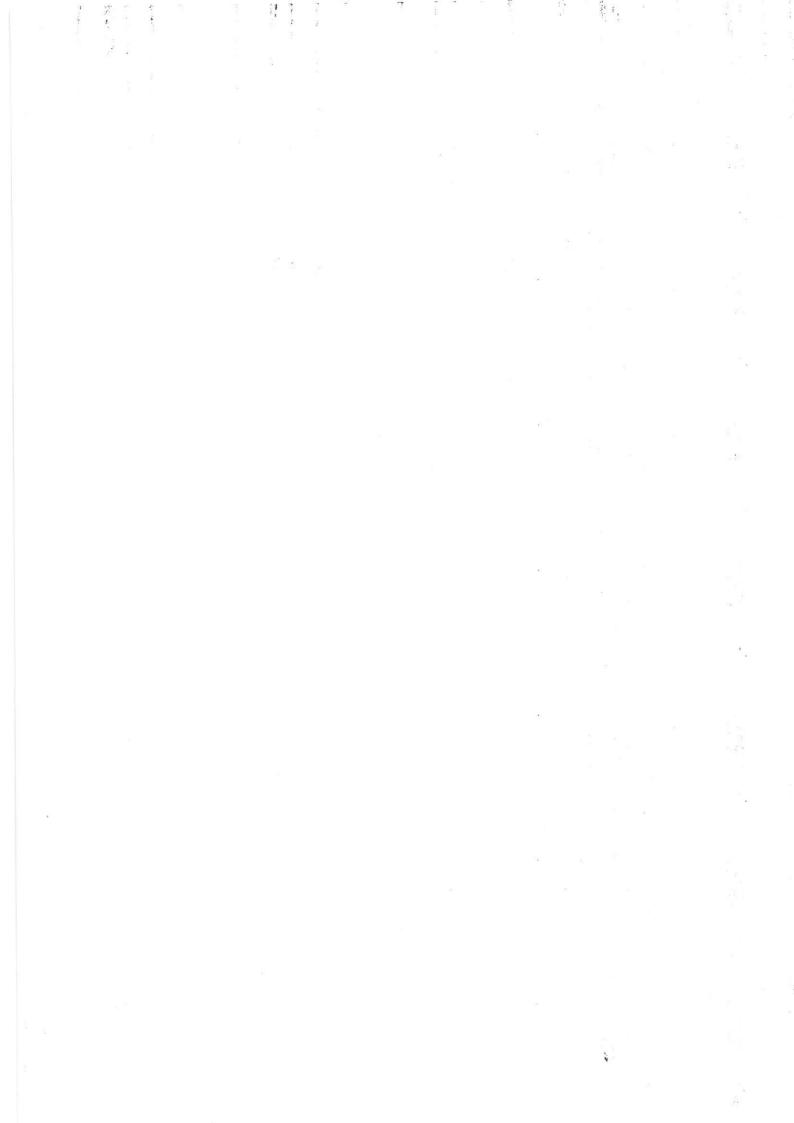


		nutrition and factors affecting growth.	illustration and practical application		
Fourth	3	Sterilization and disinfection . Classification of sterilization, physical and chemical methods.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	Tools, equipment and devices used in the diagnosis of bacteria	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Infections, sources of infection, virulence, toxins and enzymes related to bacteria	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Cultivation media and their types	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Chemical tests for the detection of bacteria	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Anaerobic bacteria	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
X	3	Clostridium	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Aerobic bacteria	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	staphylococcus, general characteristics, toxin production, enzyme, immunomodulator, Allergy test.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

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Thirteenth	3	streptococci, general characteristics, toxin production, enzyme, immunomodulator, Allergy test.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams		
Fourteenth	3	Bacilli (Anthrax), general characteristics, toxin production, enzyme, immunomodulatory, allergy test.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams		
Fifteenth	3	Bordetella and Haemophilus, general characteristics, toxin production, enzyme, immunomodulatory, allergy test.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams		
10. Course Evaluation							
Daily, monthly and final exams as well as weekly reports							
11. Learning and Teaching Resources							
Textbooks							
Main refere							
	Scientific research Scientific resources within the Internet						
Scientific re	esources	within the Internet					



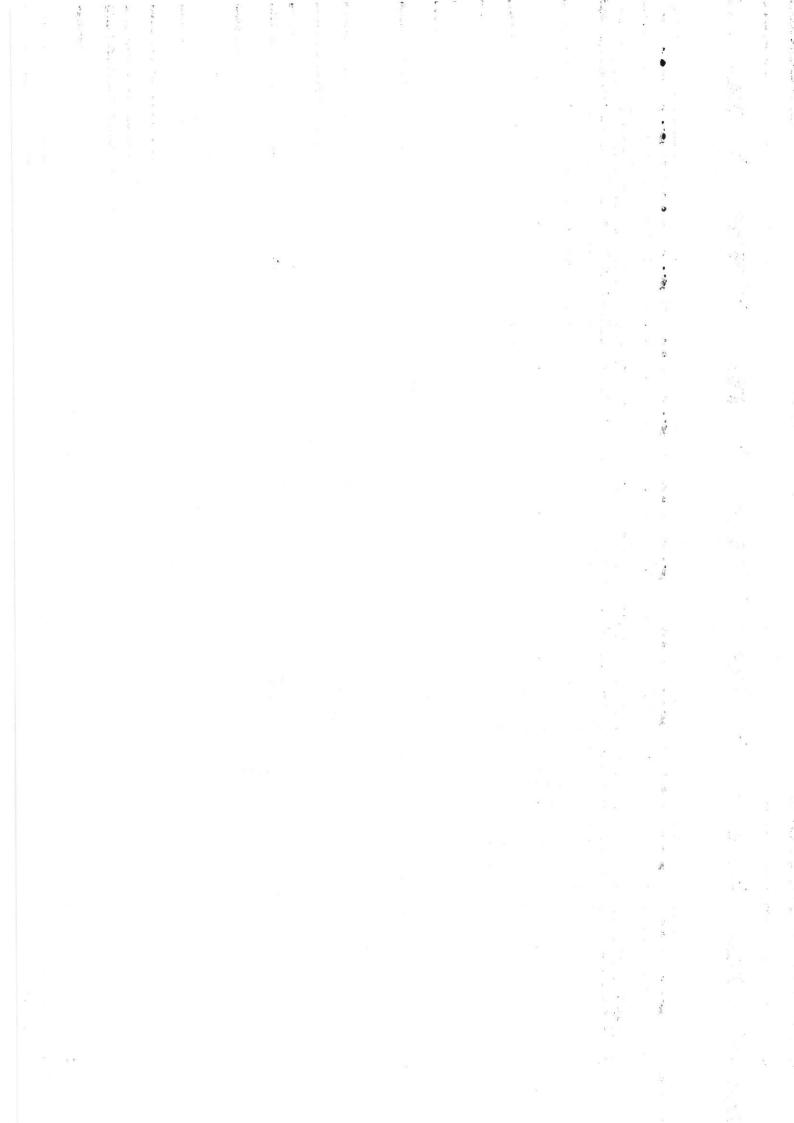
Immunology Fundamentals Course Description Form 1

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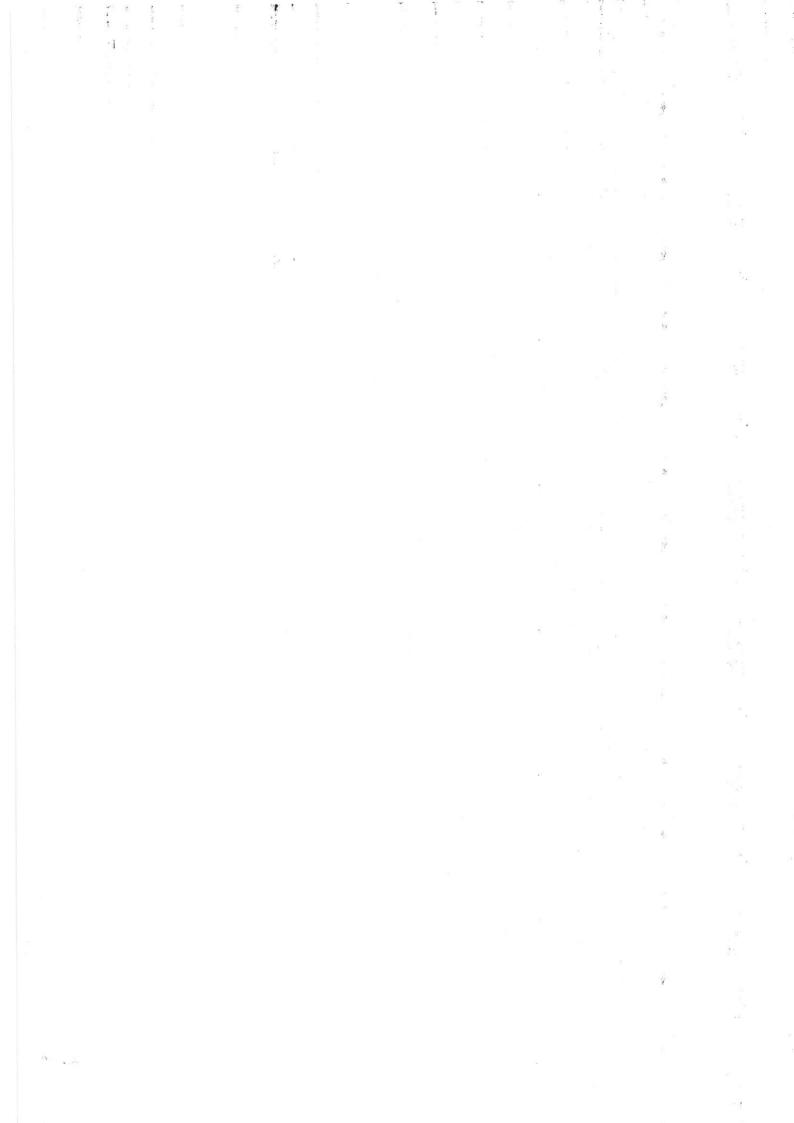
1. Course	Name				
Fundamenta		nunology			
2. Course					
MT214					
3. Semeste	er/Level				
First / Secon	nd				
4. Descript	tion prepa	ration date			
26/1/2025	2				
5. Availab	le attenda	nce formats			
Attendance	on a weel	kly basis			
6. Number	of Credit	Hours (Total) / Number of U	Jnits (Total)		
45/3	×.				
7. Course		S			
Course Ob	jectives		• The course a	ims to clarify the	basic elements
	2		and terminol	ogy used in immu	inology, with a
			focus on the	important elements	s in the defense
			of the body	y: natural immur	nity: chemical,
			biochemical,	physiological	and cellular
	1		immune barri	iers with emphasis	
				1	
and the second se		rning Strategies			
• Ade	quate exp	lanation of the course			
• Dail	y Tests				
• Stud	lent group	S			
• Field	d visits				
	1				
9. Course	e Structure	e		Attendense	
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
		Definition of immunity,	Explanation of the		
		its types and its	lecture with the	01 1	
First	3	relationship to other	presence of means	Classroom and	Exams
e seens - esta taemistaris		natural and biological	of illustration and	laboratory	
		medicine sciences	practical application		
			application		
	-2	Natural immunity and			
	8	components of the	Explanation of the		
		immune system, factors	lecture with the	Classroom and	
Second	3	affecting immunity and	presence of means of illustration and	laboratory	Exams
	<u>(4)</u>	natural immune	practical	laboratory	
		mechanisms	approation		
ţ.		meenamsms	application		



			Explanation of the		
Third	3	Acquired immunity and its types	lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourth	3	Congenital immunity and its types	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	(Immunization) Vaccines and their types, their importance, how to prepare the vaccine schedule, with duration. Require the student to prepare a report on vaccines.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Complement system, definition. Chemical- physical properties and the proportion of their components in the body	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Antigens, types, sizes and methods of detection	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Antibodies types, sizes and methods of detection	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Interaction links between antigens and antibodies responsible for interaction, types of reactions, affinity, monovalent and polyvalent antigen effects.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

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Tenth	3	Synergy definition and application	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Indirect conjugation - Latex test - Pregnancy Test - Comp Test	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	General instructions for the laboratory guide the student about immunity and the laboratory.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Viral hepatitis principle, causative agent, method of infection and laboratory diagnostic method	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	3	Rose – Bengal method	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Toxoplasmosis test	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
	Evaluat				
		inal exams as well as weekly	reports		
Textbooks	ig and T	eaching Resources			
Main referen	nces				
Scientific re					-
Scientific re	sources	within the Internet			



Fundamental of Nursing Course Description Form

. Course N	lame					
oundations	of Nursing	g				
. Course C	Code					
ML11						
. Semester	: / Level					
first /First						
. Descript	ion prepar	ation date				
6/1/2025						
. Availabl						
Attendance	on a week	ly basis	Units (Total)			
	of Credit	Hours (Total) / Number of	Units (Total)			
45/3						
7. Course a	administra	tor name				
	011					
	Objectives		• Identify the l	pasics of nursin	g, first aid,	
Course Ob	jectives		laboratory and r	professional safety	in the field of	
			laboratory and professional safety in the field of nursing and ways to deal with the patient during			
			his procence in 1	medical laboratorie	S	
			his presence in i	incurcar laboratorie		
	1.7	in a Stratagies				
9. Teachin	g and Lean	rning Strategies lanation of the course				
		ranation of the course				
	ly Tests					
	dent group	0S				
• Fiel	ld visits					
10 Course	se Structur	2				
10. Cours Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method	
		•	Explanation of the			
		Introduction to nursing	lecture with the	Classroom and	Exams	
First	3	and the need for it, the	presence of means of	laboratory	Exams	
FIISt	5	nursing process - stages	illustration and	nuccinitien y		
		of the nursing process.	practical application	<u></u>		
			Explanation of the	Classroom and		
		Medical examination	lecture with the	laboratory	Exams	
Second	3	and methods	presence of means of			
			illustration and			
			practical application	Classroom and		
			Explanation of the	laboratory		

laboratory

Exams

lecture with the

presence of means of

illustration and

practical application

Vital signs – temperature – the body's homeostasis

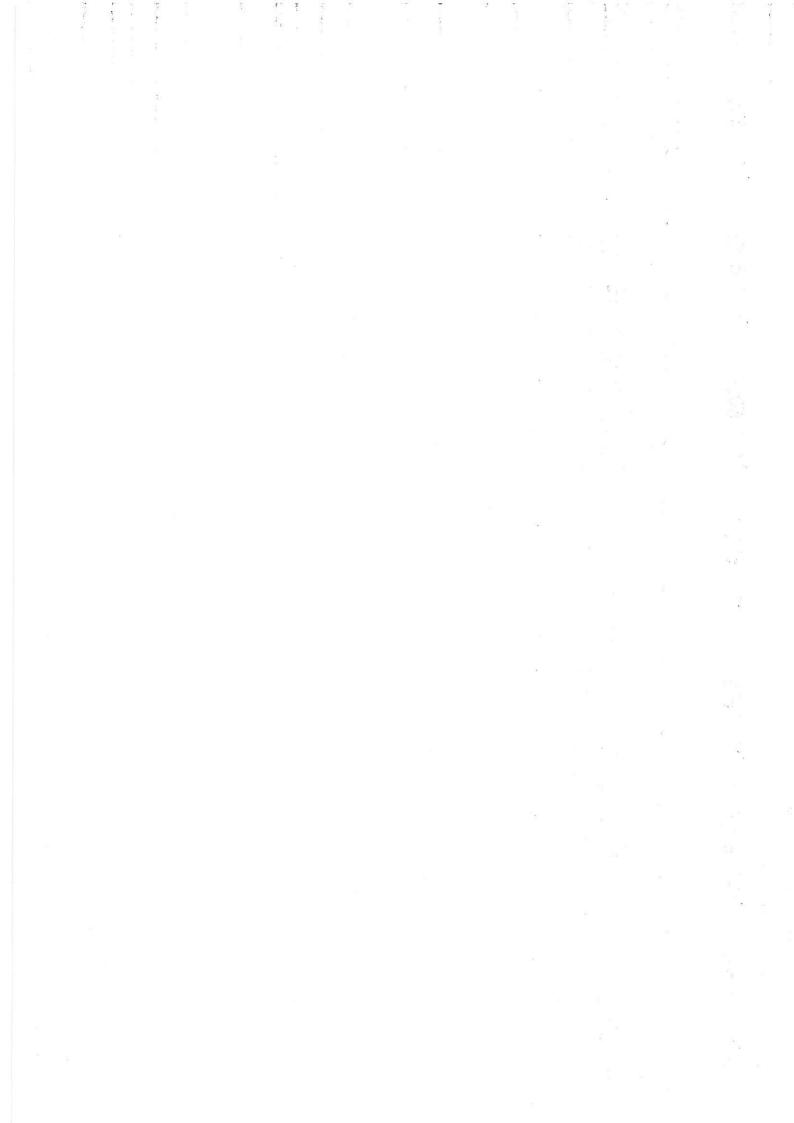
- how to measure them

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Fourth	3	The pulse - its definition - the factors affecting it - how to measure it	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	Breathing - its definition - factors affecting it - how to calculate it	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Blood pressure - definition - factors affecting it - cases of low and high blood pressure - how to measure pressure	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Laboratory health and safety - definition - foundations - the most important factors affecting it	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	The most important factors that affect the health of laboratory workers - natural factors - the most important diseases caused by them	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Chemical agents - the most important diseases and conditions caused by them	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Psychological factors - the most important diseases and conditions caused by them	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Biological factors - their types - their impact on laboratory workers - the most important diseases caused by them	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	First aid - definition - paramedic and qualifications - principles of first aid	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

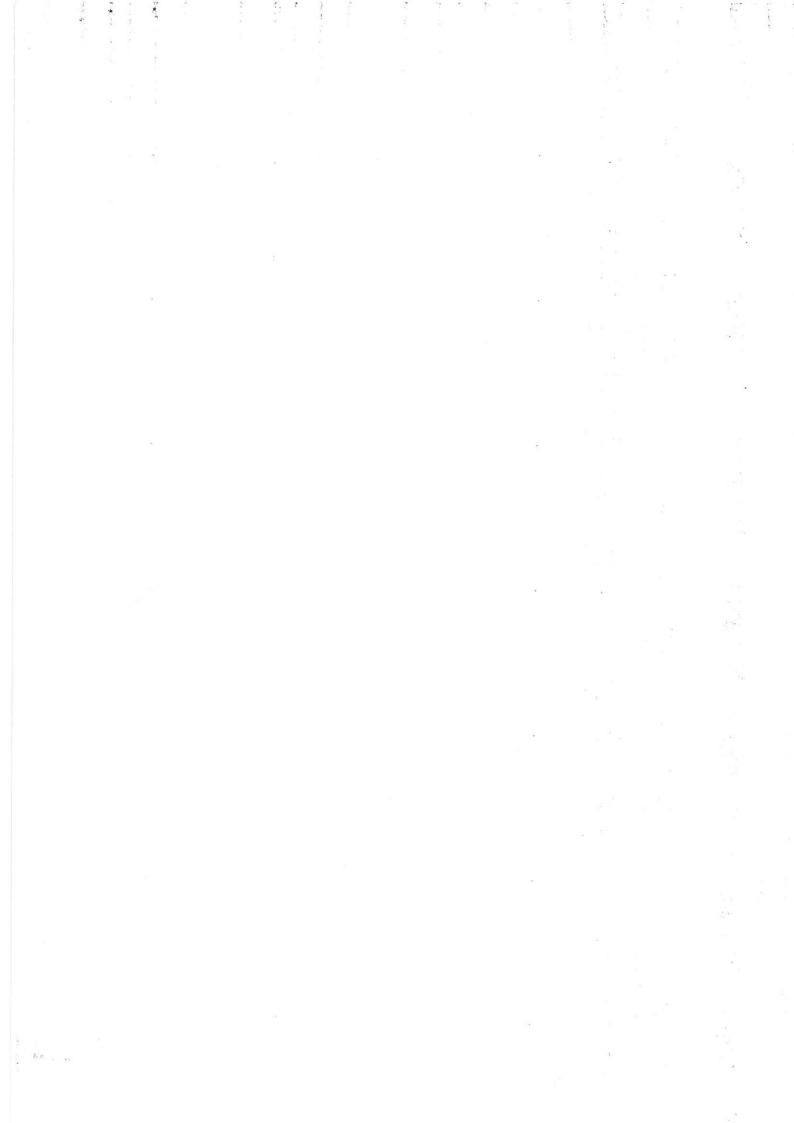


Thirteenth	3	Ambulance for wounds and bleeding	Explanation of the lecture with the presence of means of illustration and practical application	Classroom laboratory	and	Exams		
Fourteenth	3	Ambulance burns - ambulance types of fractures	Explanation of the lecture with the presence of means of illustration and practical application	Classroom laboratory	and	Exams		
Fifteenth	3	Artificial respiration and suffocation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom laboratory	and	Exams		
	11. Course Evaluation							
Daily, monthly and final exams as well as weekly reports								
12. Learning and Teaching Resources								
Textbooks								
Main references								
Scientific research Scientific resources within the Internet								
Scientific resources within the internet								

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First Aid Course Description Form

1. Course M	Jama				
1. Course N First aid	Name				
2. Course (ode				
MLT120	couc				
3. Semeste	r/Level				
Second /Firs					
4. Descript		ration date			
26/1/2025	non prepa				
5. Availabl	le attenda	nce formats			
Attendance	and the second se				
6 Number	of Credit	Hours (Total) / Number	of Units (Total)		
45/3	or creat				
7. Course a	administra	ator name			
7. Course					
8. Course	Objective	S			
Course Ob			 Ability to take wh 	atever it takes to su	ustain life
Course Ob	J				
			• The student's knowledge of first aid nursing and how to rescue emergency cases before transferring		
			them to the hospital		
			them to the hospit	ai	
0 Teachin	a and Lea	rning Strategies			
	augte evr	lanation of the course			
		lanation of the course			
• Dail	ly Tests				
DailStuce	ly Tests dent group				
DailStuce	ly Tests				
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Fourth	3	Ambulance, transport, work with hospital staff, work with training of public safety agencies.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	The emotional side of emergency care, death and dying, dealing with patient and family members Primary care for the dying patient, and critically ill patients.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Physical signs of death, hypothetical signs of death, final signs of death, medical examinations	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Anxiety, pain, fear, hostility, depression, mental health dependence, receiving bad news	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Infectious diseases (modes of transmission), risk reduction and prevention regime. Scene safety and personal protection.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Trauma, motor trauma. Bleeding types, causes and treatment.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Trauma types, causes and management.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Wounds, soft tissue injuries, eye injuries, facial and throat injuries.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

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Twelfth	3	Chest injuries, abdominal injuries, head and spine injuries.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Heart structure, circulatory function and atherosclerosis.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	3	Heart attack, signs and symptoms	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Physical signs of cardiogenic shock, sudden death and congestive heart failure	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

11. Course Evaluation	
Daily, monthly and final exams as well as weekly reports	
12. Learning and Teaching Resources	
Textbooks	
Main references	
Scientific research	
Scientific resources within the Internet	



Primary Course Description Form

Name					
Code					
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r of Credi	t Hours (College) / Numb	er of Units (College)			
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		(protozoa), methe	ods of diagnosis a	nd the diseases	
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		epidemiological	information, wh	nich helps to	
		prevent and era	adicate the preva	ailing parasitic	
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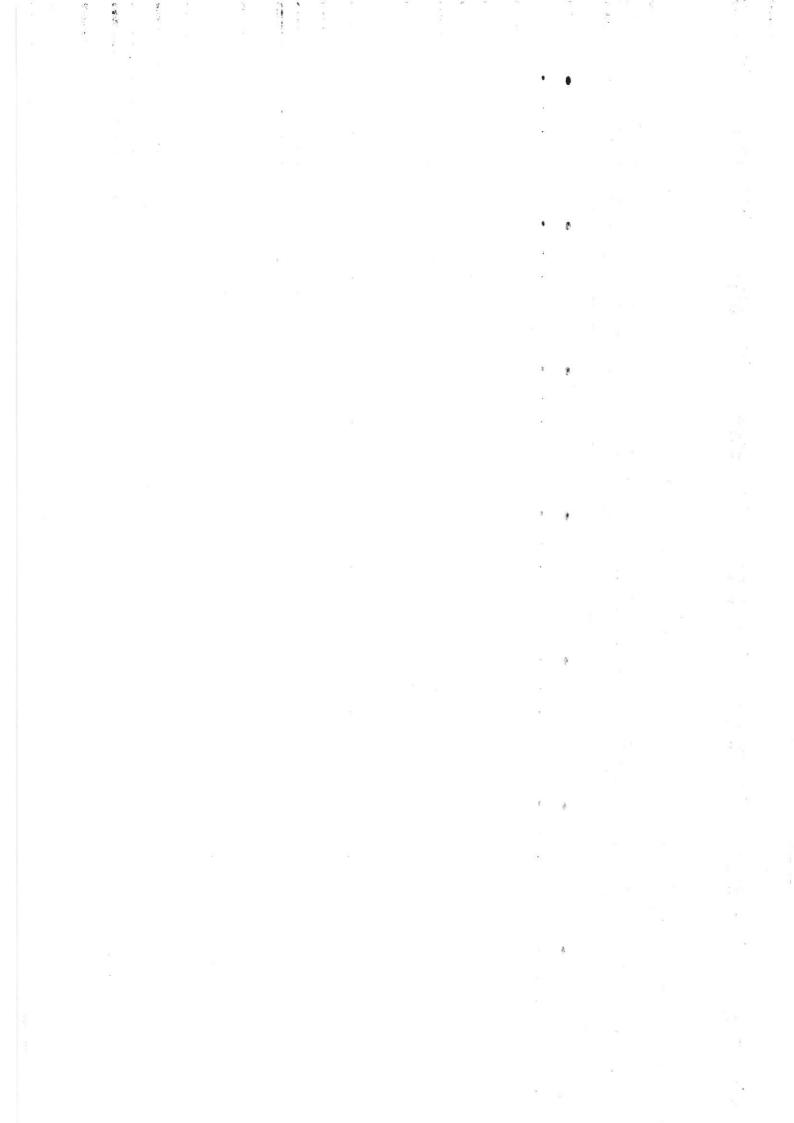
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Twelfth	3	Plantidium: form, pathogenesis and diagnostic methods	practical applicationExplanation of thelecture with thepresence of means ofillustration andpractical application	laboratory	Exams
Eleventh	3	Ciliary	Explanation of the lecture with the presence of means of illustration and	Classroom and laboratory	Exams
Tenth	3	Trypanosoma: form, pathogenesis and diagnostic methods	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Leishmaniasis: form, pathogenesis and diagnostic methods	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Giardiasis - Trichomonas: form, pathogenesis and diagnostic methods	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Flagella	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Antamoeba: form, pathogenesis and diagnostic methods	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	Roots	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourth	3	Classification of protozoans and their specifications	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

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Thirteenth	3	Spores	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams		
Fourteenth	3	Plasmodium: form, pathogenesis and diagnostic methods	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams		
Fifteenth	3	Toxoplasma: form, pathogenesis and diagnostic methods	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams		
	e Evaluat						
Daily, monthly and final exams as well as weekly reports							
12. Learning and Teaching Resources							
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Scientific resources within the Internet							

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Pathogenic Bacteriology Course Description Form

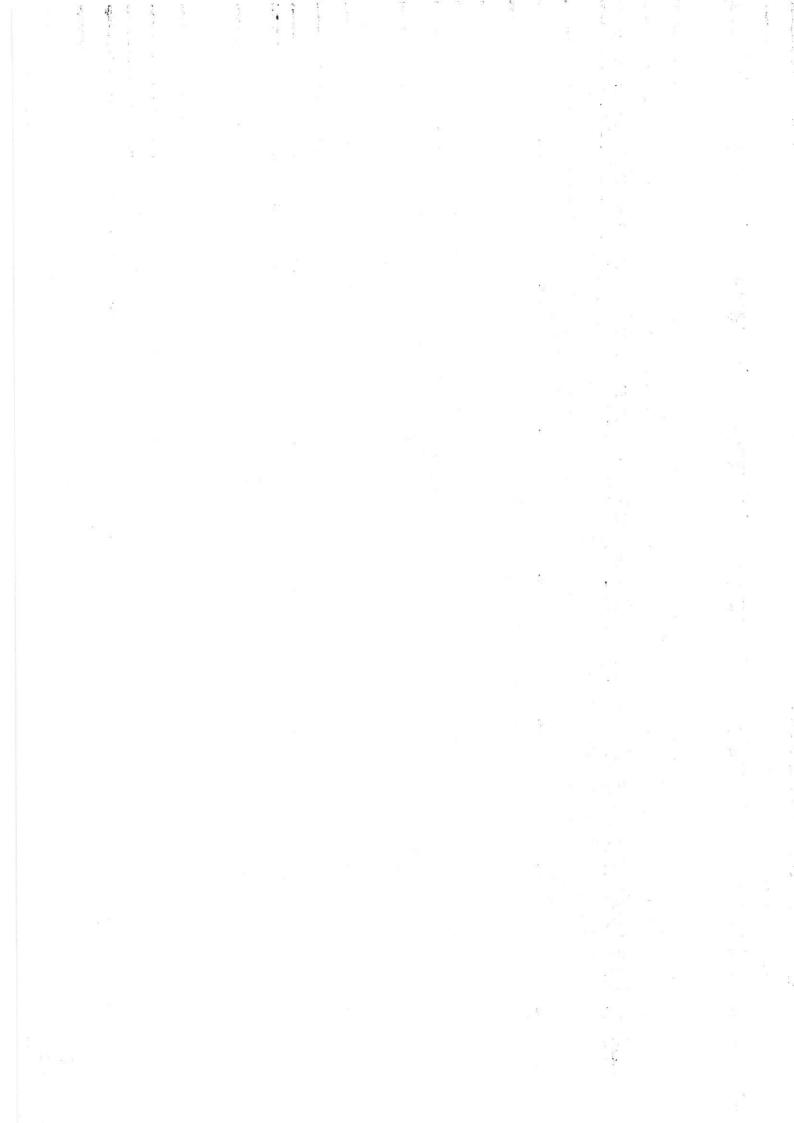
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			detect them and l	how to prevent an	d treat them in			
it.			the event of infect	tion				
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9. Cours	e Structur	re		A.u				
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method			
		staphylococcus,	Explanation of the					
		general	lecture with the					
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THSC	5	production, enzyme,	illustration and	laboratory	S			
		immunomodulator,	practical application					
		Allergy test.	1 11					
		streptococci, general	Explanation of the					
		characteristics, toxin	lecture with the	Classroom and	Exams			
Second	3	production, enzyme,	presence of means of illustration and	laboratory				
		immunomodulator,		1022				
		Allergy test.	practical application					
		Bacilli (Anthrax),	D 1					
		general	Explanation of the					
		characteristics, toxin	lecture with the	Classroom and	Exams			
Third	3	production, enzyme,	presence of means of	laboratory				
		immunomodulatory,	illustration and					
		allergy test	practical application					

allergy test.

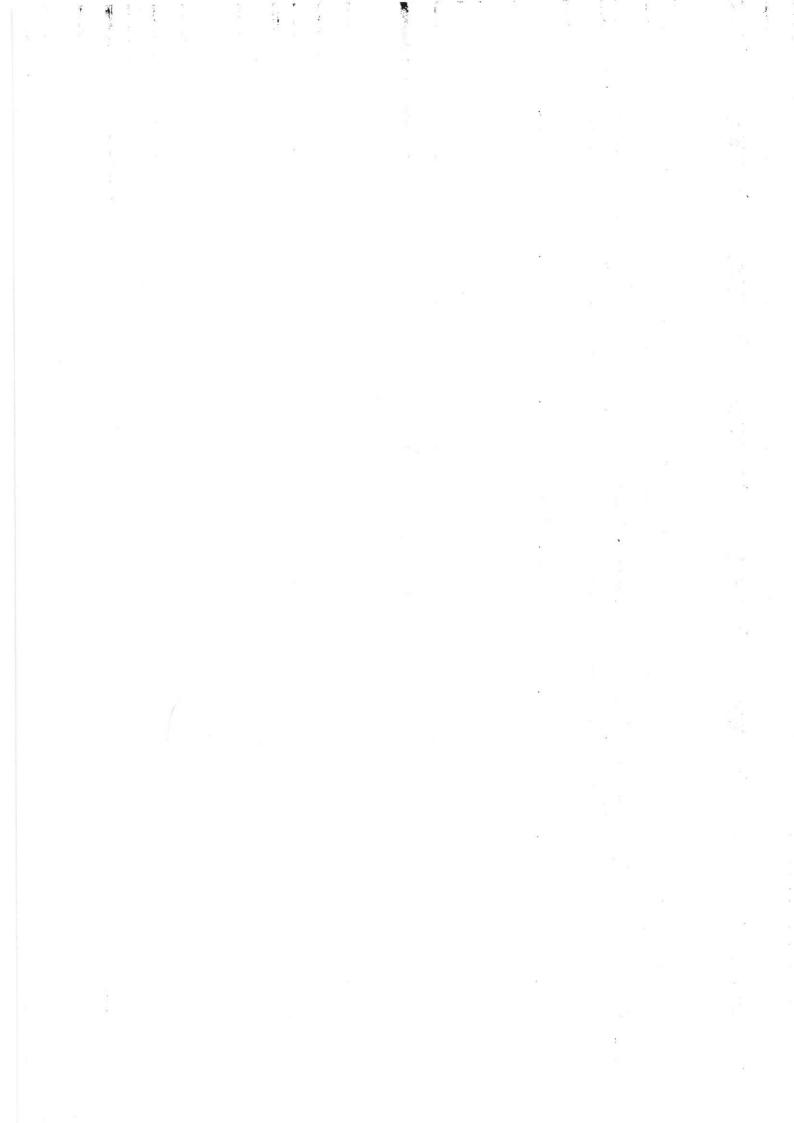


Fourth	3	Bordetella and Haemophilus, general traits.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	Production of toxins for Bordetella and Haemophilus bacteria, enzyme, immunomodulatory, allergy testing.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Mycobacterium bacteria, general characteristics, toxin production, enzyme, immunomodulatory, allergy test.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Corynebacterium, general characteristics, toxin production, enzyme, immunomodulatory, allergy test.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Pneumococcus, general characteristics, toxin production, enzyme, immunology, allergy test.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Salmonella bacteria, general characteristics, toxin production, enzyme, immunomodulatory, allergy test.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Escherichia coli bacteria, general characteristics, toxin production, enzyme, immunomodulatory, allergy test.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Klebsiella, general characteristics, toxin production, enzyme, immunity, allergy test.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

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Twelfth	3	Pseudomonas (Pseudomonas), general characteristics, toxin production, enzyme, immunomodulatory, allergy test.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Brucella bacteria, general characteristics, toxin production, enzyme, immunology, allergy test.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	3	Francisella bacteria, general characteristics, toxin production, enzyme, immunomodulatory, allergy test.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Chlamydia, general characteristics, toxin production, enzyme, immunomodulatory, allergy test.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
	e Evaluat				
		final exams as well as we	ekly reports		
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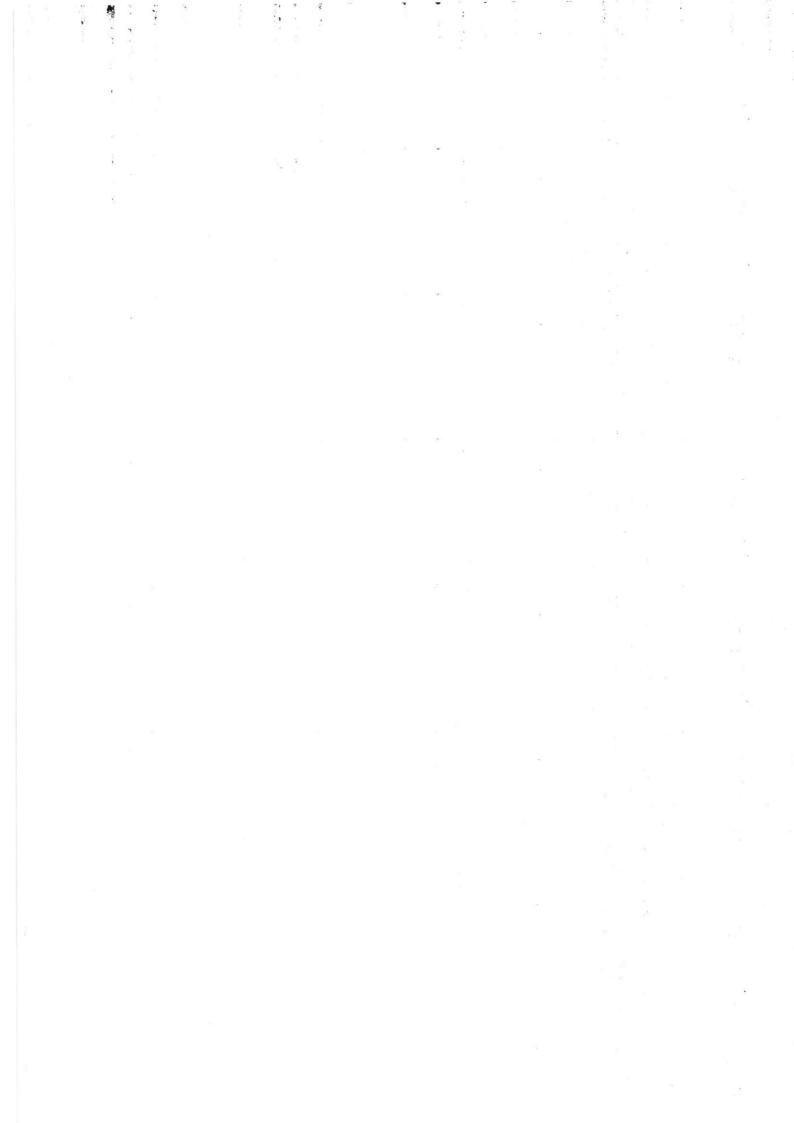
Worms Course Description Form

1. Course	Name					
Worms						
2. Course	Code					
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26/1/2025						
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7. Course administrator name						
8. Course	Objective	20				
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Course Ob	jectives		*	•••	5. S.	
				ect humans and a	(U	
				cle) and definition		
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				udying how to ide		
			them and prevent exposure to infection and how to			
			eliminate them			
		arning Strategies				
		planation of the course				
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10. Course	e Structur	*0				
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Week	Hours	Subject	Learning method	Forms	Evaluation method	
			Explanation of the			
		Introduction to	lecture with the	Classroom and		
First	3	Introduction to	presence of means of	laboratory	Exams	
		parasites	illustration and	laboratory		
			practical application			
			Explanation of the	Classroom and		

Week	nouis	Subject	Learning method	Forms	Evaluation method
First	3	Introduction to parasites	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Second	3	Classification of parasites	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

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Third	3	Various general methods of diagnosing parasites	Explanation of the lecture with the presence of means of illustration and practical application	laboratory	Exams
Fourth	3	Tapeworms, their types and life cycle	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	Methods for diagnosing tapeworms	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Worms of trypanosis, types and life cycle.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Methods for diagnosing worms	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Hidden human spores, their types and life cycle.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Methods for diagnosing human cryptworms	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Dwarf squamous worms, types and life cycle	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Methods for diagnosing dwarf squamous worms	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	Liver trypanosomiasis and diagnostic methods	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams



Thirteenth	3	Lung trypanosomiasis and methods of diagnosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	3	Nematodes, types, life cycle and methods of diagnosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Quarterly worms, types, life cycle and methods of diagnosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
	e Evaluat				
		inal exams as well as wee	ekly reports		
and the second se	ng and T	eaching Resources			
Textbooks					
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Biochemistry Course Description Form

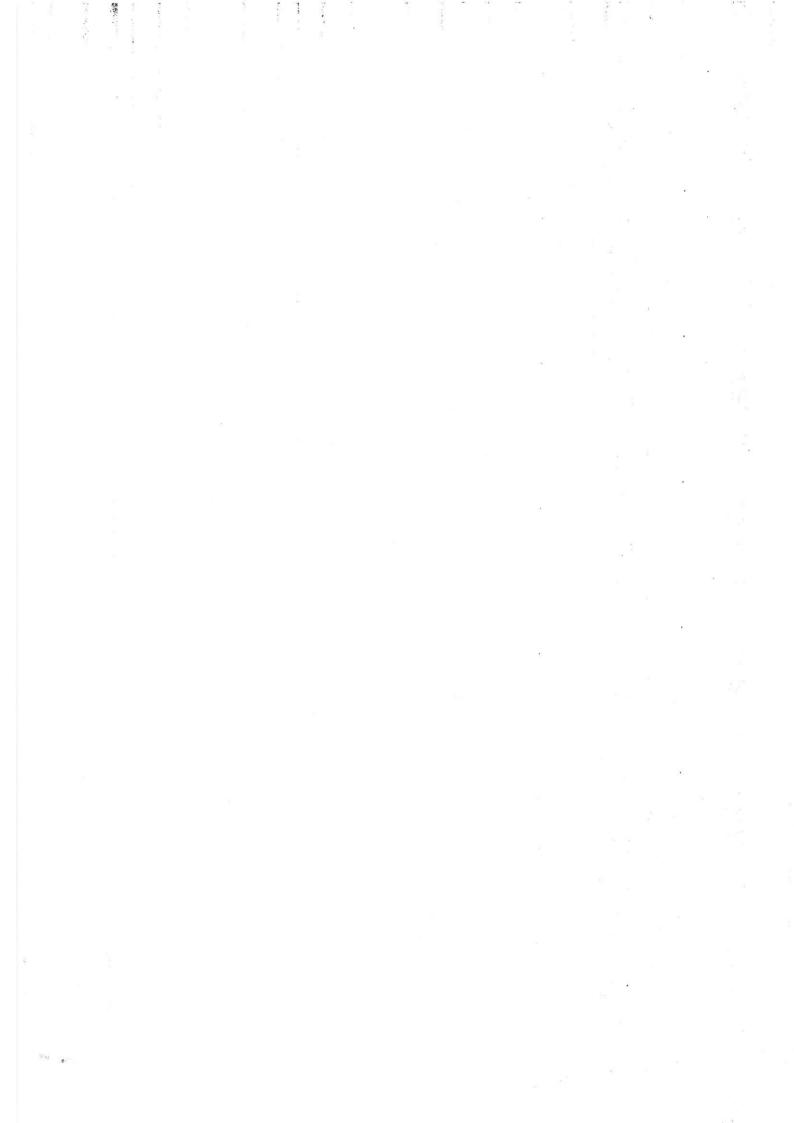
Biochemistry	
2. Course Code	
MLT208	
3. Semester / Level	
First / Second	
4. Description preparation date	
26/1/2025	
5. Available attendance formats	
Attendance on a weekly basis	
6. Number of Credit Hours (Total) / N	Jumber of Units (Total)
45/3	
7. Course administrator name	
Assoc. Prof. Dr. Maha Al-Taif Jassim	
8. Course Objectives	
Course Objectives	• Introducingchemical compounds and enriching the student with adequate information that enables him to understand the vital activities within the human body, and clarify the different methods used in diagnosing diseases.
9. Teaching and Learning Strategies	
 Adequate explanation of the co 	Urse
 Daily Tests 	

- Daily Tests
- Student groups
- Field visits

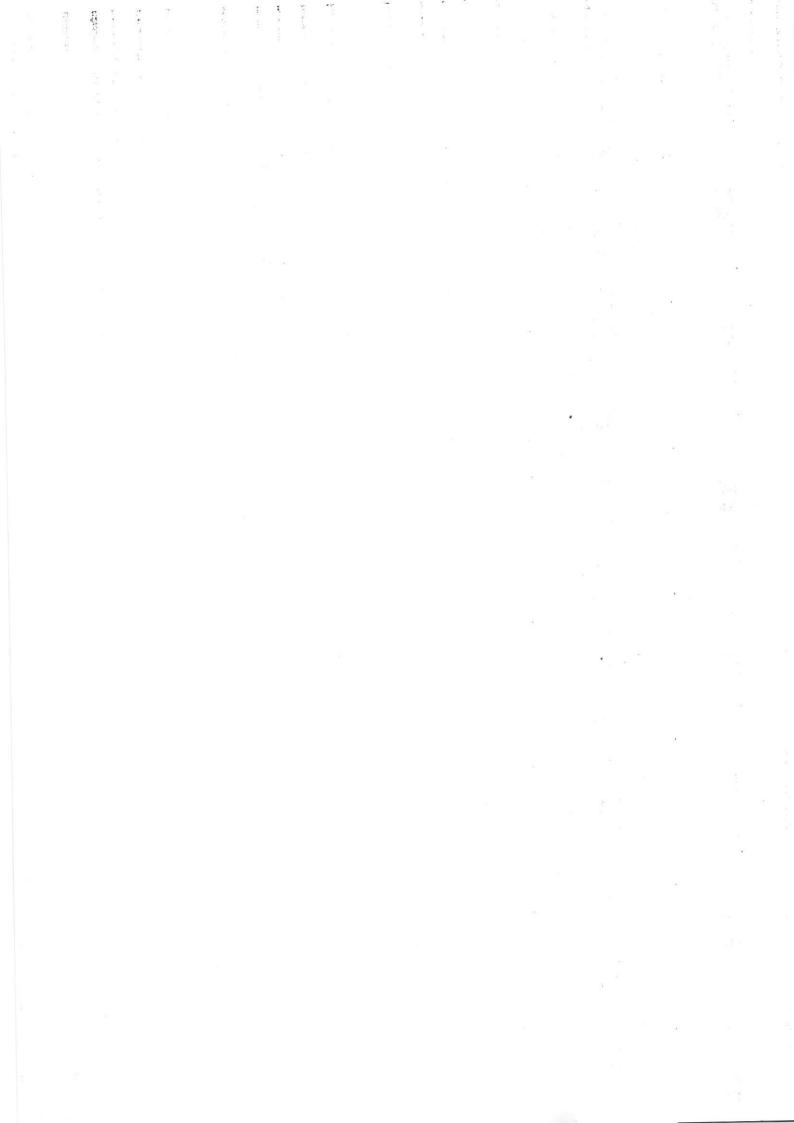
10. Cours	e Structur	re			
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	3	Introduction to methods of collecting blood and urine samples and methods of preservation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Second	3	strays	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Third	3	Rare metals and diseases associated with low levels	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

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Fourth	3	Acid-base balance and problems caused by its imbalance	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	Carbohydrates	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Digestion and absorption in normal and abnormal states	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Glucose tolerance test	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Glucose metabolism and the hormones responsible for regulating it	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Diabetes and its types	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Proteins	Explanation of the lecture with the presence of means of illustration and practical application	laboratory	Exams
Eleventh	3	Types of abnormal proteins and diseases resulting from them	Explanation of the lecture with the presence of means of illustration and practical application	laboratory	Exams
Twelfth	3	Types of proteins and ways to digest them	Explanation of the lecture with the presence of means of illustration and practical application	laboratory	Exams



Thirteenth	3	Electrorelay of body fluid proteins	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	3	Liver function	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Kidney function	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
	Evaluat				
		inal exams as well as we	ekly reports		
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Biochemistry Course Description Form

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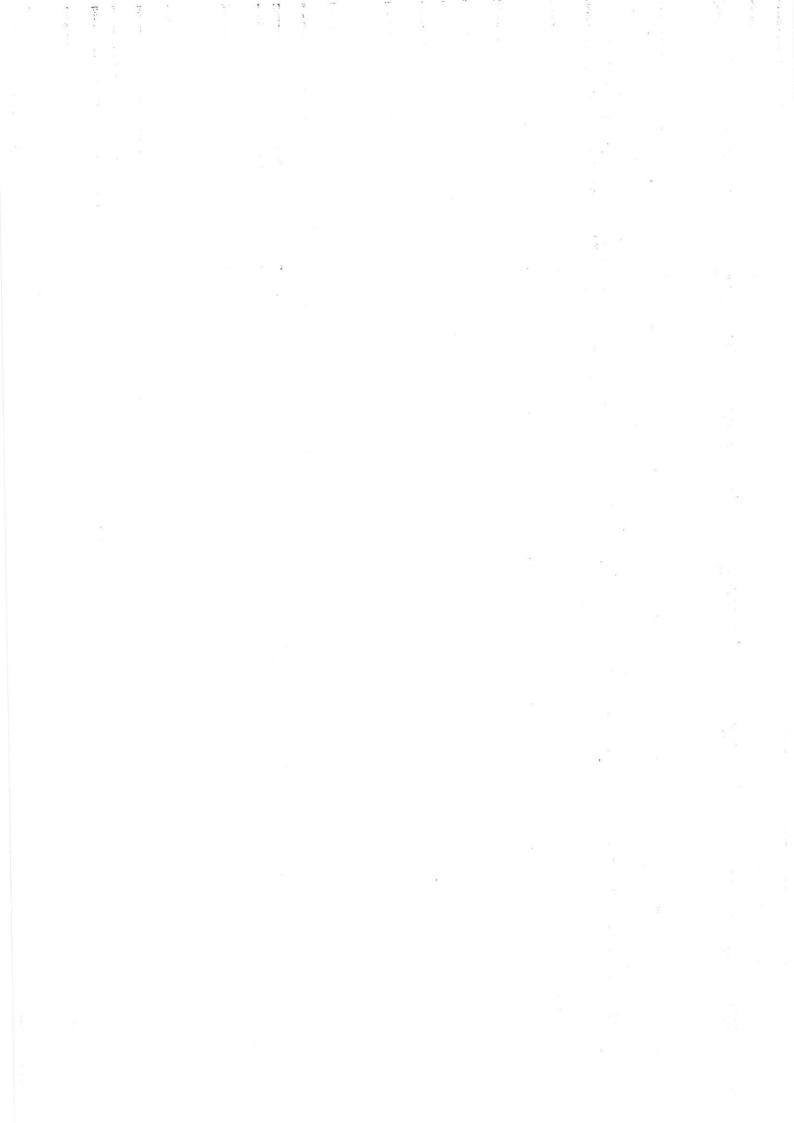
1. Course Name	
Biochemistry	
2. Course Code	
MLT208	
3. Semester / Level	
First / Second	
4. Description preparation date	
26/1/2025	
5. Available attendance formats	
Attendance on a weekly basis	
6. Number of Credit Hours (Total) / Number	r of Units (Total)
45/3	
7. Course administrator name	
Assoc. Prof. Dr. Maha Al-Taif Jassim	
8. Course Objectives	
Course Objectives	• Introducingchemical compounds and enriching the student with adequate information that enables him to understand the vital activities within the human body, and clarify the different methods used in diagnosing diseases.
9. Teaching and Learning Strategies	
• Adequate explanation of the course	
Daily Tests	
- Student meune	

- Student groups
- Field visits

10. Cours	se Structu	re			
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	3	Introduction to methods of collecting blood and urine samples and methods of preservation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Second	3	strays	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Third	3	Rare metals and diseases associated with low levels	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

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Fourth	3	Acid-base balance and problems caused by its imbalance	Explanation of the lecture with the presence of means of illustration and practical application	laboratory	Exams
Fifth	3	Carbohydrates	Explanation of the lecture with the presence of means of illustration and practical application	laboratory	Exams
Sixth	3	Digestion and absorption in normal and abnormal states	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Glucose tolerance test	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Glucose metabolism and the hormones responsible for regulating it	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Diabetes and its types	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Proteins	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Types of abnormal proteins and diseases resulting from them	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Γwelfth	3	Types of proteins and ways to digest them	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams



	1				
Thirteenth	3	Electrorelay of body fluid proteins	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	3	Liver function	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Kidney function	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
11. Course	e Evaluat	ion			
		inal exams as well as we	ekly reports		
	ng and T	eaching Resources			
Textbooks					
Main referen			-		
Scientific re					
Scientific re	sources v	within the Internet			

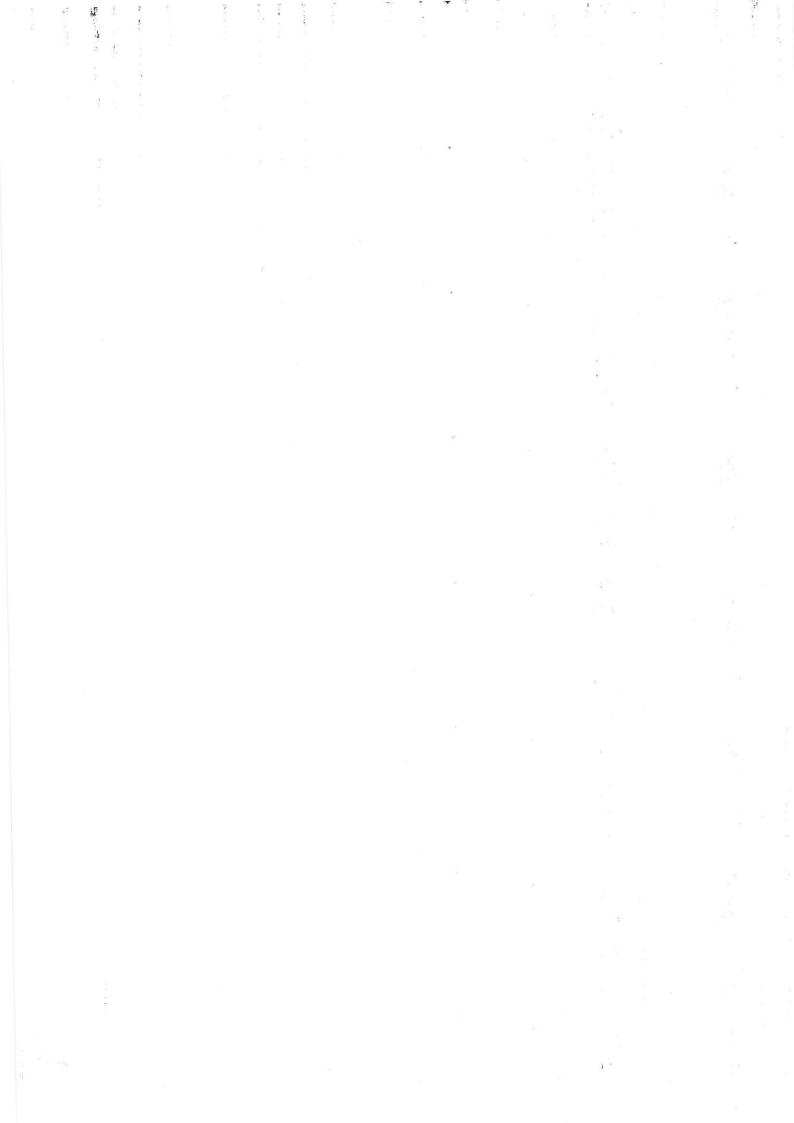
Arabic Course Description Form

1. Course Name							
Arabic Language							
2. Course Code							
NTU202							
3. Semester / Level							
Second / Second							
4. Description preparation date							
26/1/2025							
5. Available attendance formats							
Attendance on a weekly basis							
6. Number of Credit Hours (Total) / Number of Units (Total)							
2/30							
7. Course Objectives							
Course Objectives	• Introducing the Arab culture by understanding the rules and principles of the Arabic language and enabling students to master their Arabic language through the ability to write the correct texts and the appropriate expression of various situations and situations within their medical specialization.						
8. Teaching and Learning Strategies							
Adequate explanation of the course							
Daily Tests							
Student groups							

Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	2	Language is human identity	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Second	2	The Arabic language and its origins	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Third	2	Syntax	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

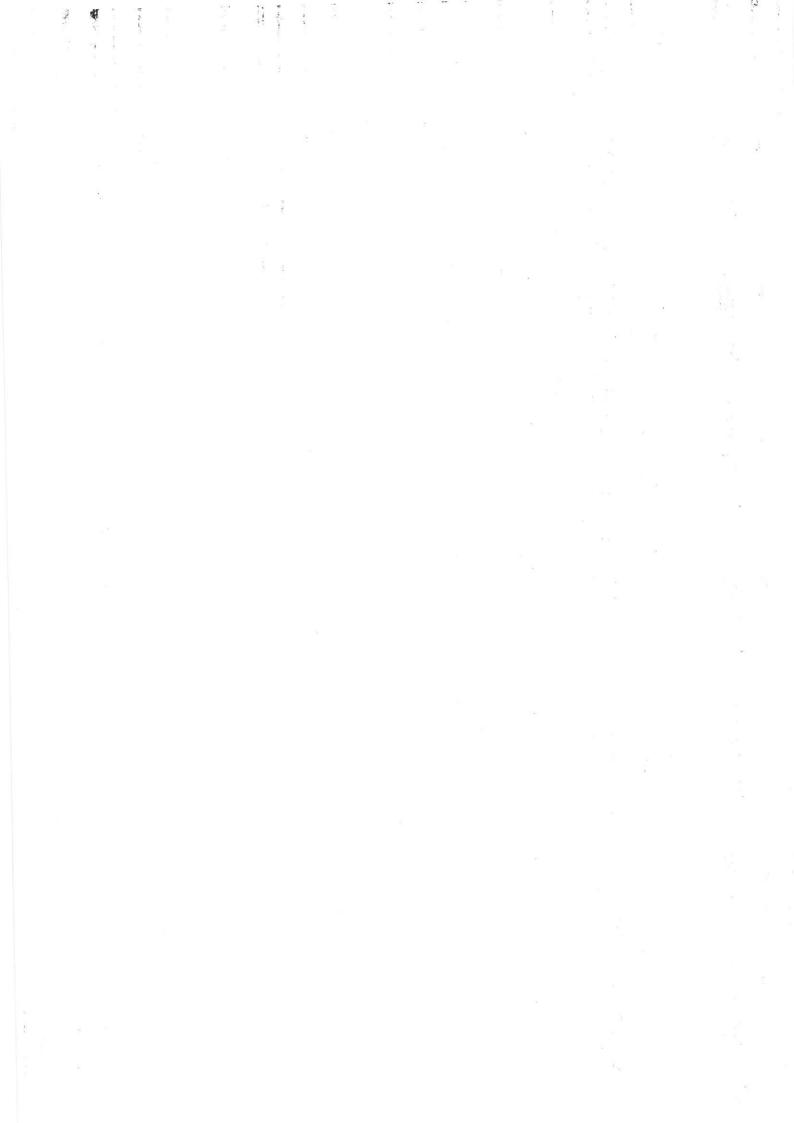
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Fourth	2	Counting rules	Explanation of the lecture with the presence of means of illustration and practical application		Exams
Fifth	2	The style of the condition in the Arabic language	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Sixth	2	Dictation and writing	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Seventh	2	Punctuation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eighth	2	Calligraphy	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Ninth	2	Arabic literature	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Tenth	2	The merits of writing for Al-Jahiz	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eleventh	2	Short Story (Tigers on the Tenth Day)	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Twelfth	2	The poem of the night lover by Nazik Al- Malaika	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Thirteenth	2	Study of Surat Al-Fajr	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams



Fourteenth	2	T tied	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fifteenth	2	Communication in the language	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
10. Course					
Daily, mont	hly and f	inal exams as well as week	ly reports		
11. Learnin	ng and To	eaching Resources			
Textbooks					
Main referen	nces				
Scientific re	sources v	within the Internet			

17.

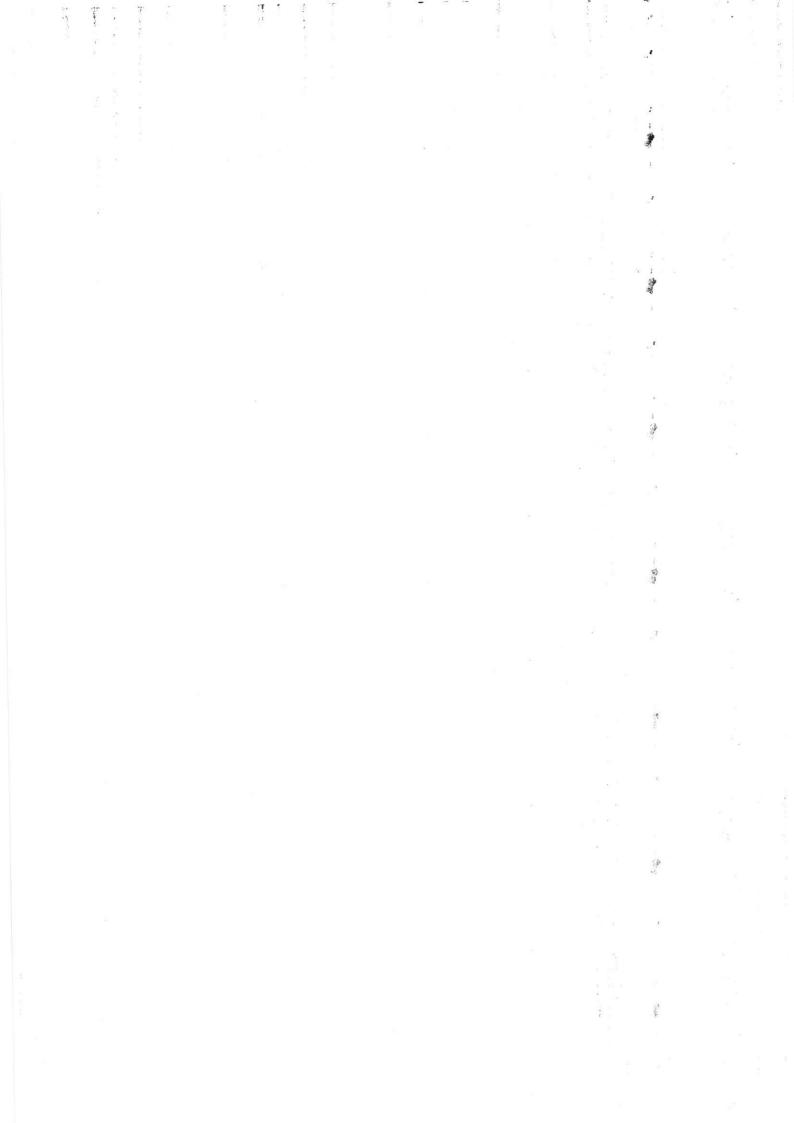


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¹ Immunology and Pathogenesis Course Description Form

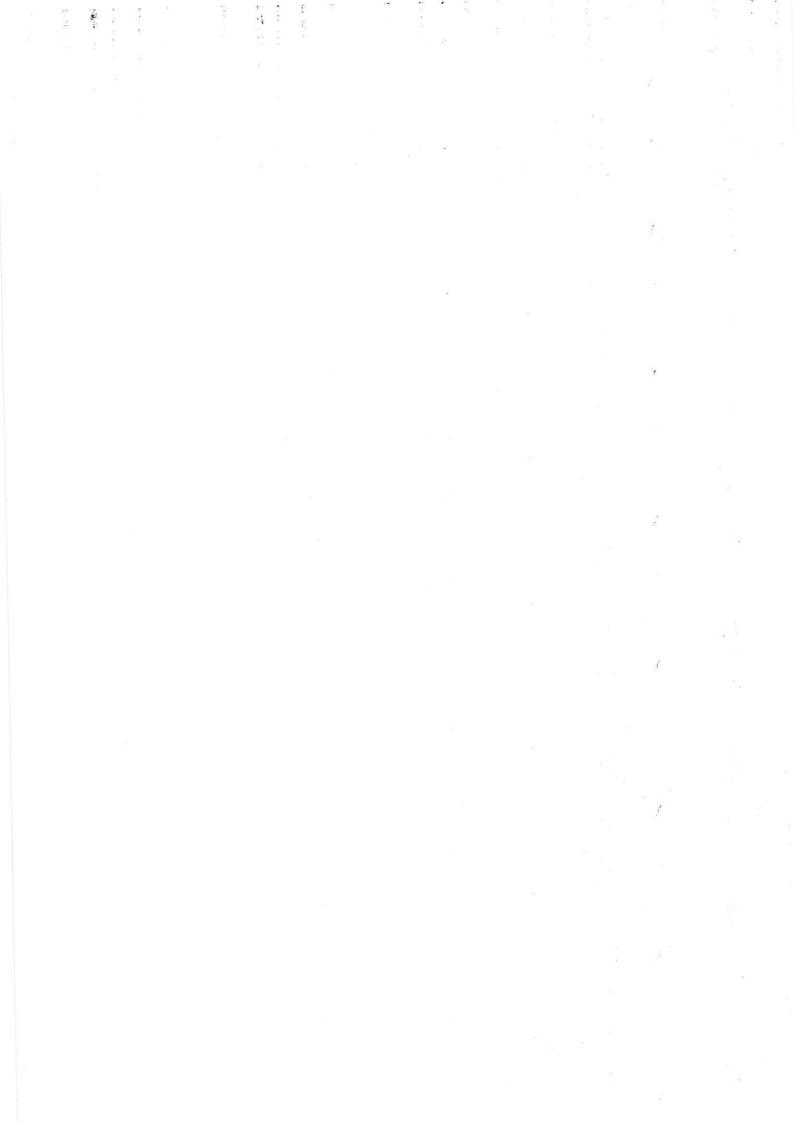
1. Course	Name				
Immunolog	gy and pa	thogenicity			
2. Course		<u> </u>			
MLT216	1				
3. Semest	er / L'eve	el			
Second / S					
	otion prep	paration date			
26/1/2025	ie de				
	and the second se	ance formats			
Attendance					
6. Numbe	r of Cred	it Hours (Total) / Number of U	Inits (Total)		
45/3	Ę.				
7. Course		es			
Course Ob	ojectives		1	aims to clarify the	
	-		and termino	logy used in imm	unology, with a
	10		focus on t	he important ele	ements in the
	÷		defense of	the body: natu	iral immunity:
			chemical, b	biochemical, phy	siological and
	2.4		cellular imr	nune barriers wi	th a focus on
			antivirals,	as well as	the different
			mechanisms	taken by micr	oorganisms to
	bi-			ody's immunity an	
	de la			for causing diseas	
				0	
8. Teachin	g and Lea	arning Strategies			
		planation of the course			
	ly Tests				
	dent group	ps			
• Field	d visits				
9. Course	e Structur	16			
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
			Explanation of the		
		Definition of immunity, its	lecture with the		
First	3	types and its relationship to	presence of means	Classroom and	Exams
	2	other natural and biological	of illustration and	laboratory	
	1	medicine sciences	practical		
			application Explanation of the		
	÷		lecture with the		
0 1		Immune response and its	presence of means	Classroom and	Evone
Second	3	types	of illustration and	laboratory	Exams
			practical		
	4		application		



[T	(
	÷		Explanation of the	12	
		The biological mechanisms	lecture with the		
Third	3	causing pathological	presence of means	Classroom and	Exams
		conditions.	of illustration and	laboratory	Lams
		Conditions.	practical		
			application		
		Immunization or immunity	Explanation of the		
	1.	against viruses and their	lecture with the	2	
Fourth	3		presence of means	Classroom and	
rourti	5	types Specialized immediate	of illustration and	laboratory	Exams
		- Specialized immunity	practical	incontroly	
		- Non-specialized immunity	application		·*.
		Immuniaction	Explanation of the		
19		Immunization or immunity	lecture with the		
Fifth	2	against bacteria and their	presence of means	Classroom and	
rmm	3	types	of illustration and	laboratory	Exams
n - N	16	- Specialized immunity	practical	laboratory	
		- Non-specialized immunity	application		
			Explanation of the		
		Immunization or immunity	lecture with the		
~ 1		against parasites and their	presence of means	Classes	
Sixth	3	types	of illustration and	Classroom and	Exams
		- Specialized immunity		laboratory	
	4	- Non-specialized immunity	practical		
			application		
		Immunization on immunity	Explanation of the		
	5	Immunization or immunity	lecture with the		
Seventh	3	against fungi and its types	presence of means	Classroom and	Exams
		- Specialized immunity	of illustration and	laboratory	
		- Non-specialized immunity	practical		
			application		
		Maahaniamaa	Explanation of the		
		Mechanisms of	lecture with the		
Eighth	3	neutralization or	presence of means	Classroom and	Exams
		neutralization of bacterial	of illustration and	laboratory	
		and fungal toxins	practical		
			application		
			Explanation of the		
			lecture with the		
Ninth	3	Osmosis and phagocytosis	presence of means	Classroom and	Exams
10 40000000000000000000000000000000000	-	phugoe y tosis	of illustration and	laboratory	
			practical		
			application		
			Explanation of the		
		Autoimmune and theories	lecture with the		
Tenth	3	of the formation of various	presence of means	Classroom and	Exams
i onul	5	autoimmune diseases	of illustration and	laboratory	L'Adits
			practical		
			application		
			Transition		

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Eleventh	3	Types of immune diseases - Systemic lupus erythematosus - Rheumatoid arthritis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	The mechanism of Rh factor in hemolysis at birth	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Hypersensitivity	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	3	ELIZA Test	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	RIA Test	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
10. Course					
11. Learnin	ng and T	inal exams as well as weekly re eaching Resources	ports		
Textbooks		0			
Main referer					
Scientific res		1.1.1. T	10		
Scientific res	sources v	within the Internet			

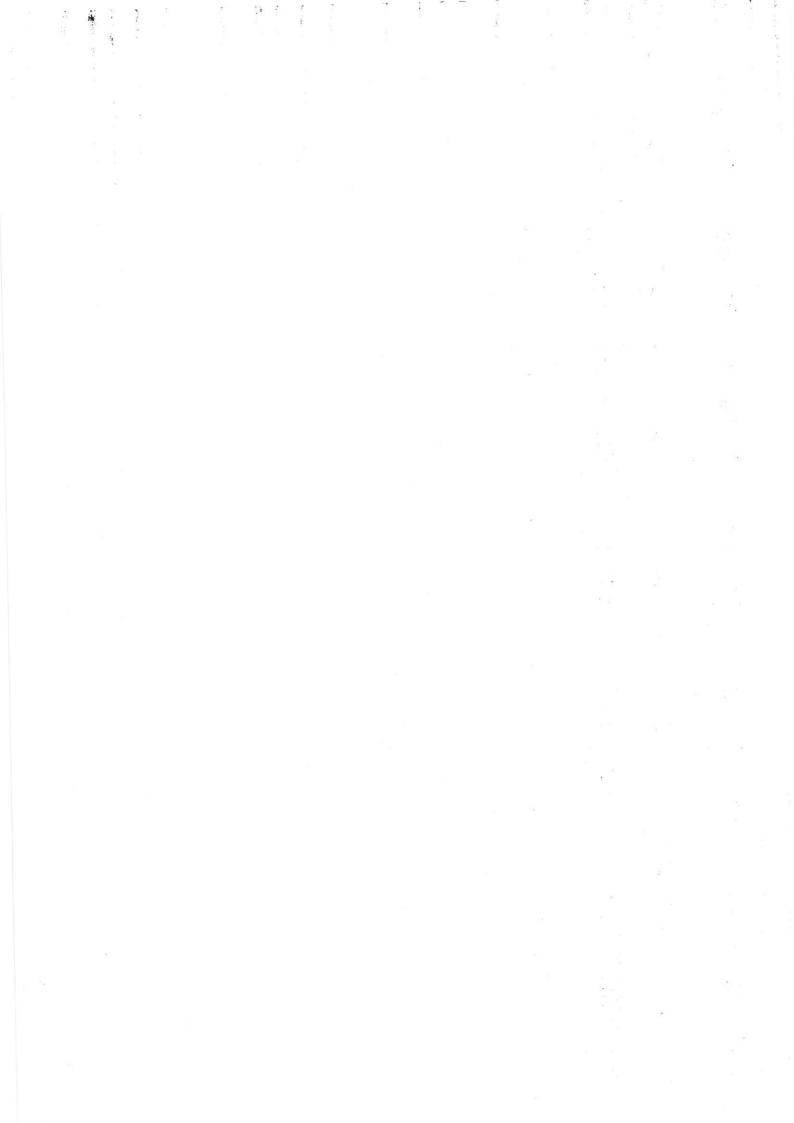


Cellular Hematology Course Description Form

Call-1-11	Name				
Cellular b	ood disea	ases			
2. Course	Code				
MT217					
3. Semes	ter / Lev	el			
Second / S	econd				
4. Descri	ption prej	paration date			
26/1/2025					
5. Availa	ble attend	lance formats			
Attendance					
6. Numbe	er of Cred	lit Hours (Total) / Number o	of Units (Total)		
45/3					
7. Course	Objectiv	es			
Course Ol	ojectives		Introducing	hematology and	focusing on
				the normal mech	e
				omponents in a	
				pathological con	
			various reason		and for
			various reason	.5.	
8. Teachin	g and Le	arning Strategies		A mention and a second	
		planation of the course			
	ly Tests				
• Stu	dent grou	ns			
	0-0-	03			
 Fiel 	d visits	ps			
• Fiel	d visits	ha			
	d visits e Structu	•			
9. Cours	e Structu	re	Learning method	Attendance	Evolution of 1
		•	Learning method	Attendance Forms	Evaluation method
9. Cours	e Structu	re	Explanation of the		Evaluation method
9. Cours Week	e Structu Hours	re Subject Introduction to the	Explanation of the lecture with the	Forms	
9. Cours	e Structu	re Subject	Explanation of the lecture with the presence of means of	Forms Classroom and	Evaluation method Exams
9. Cours Week	e Structu Hours	re Subject Introduction to the importance of blood	Explanation of the lecture with the presence of means of illustration and	Forms	
9. Cours Week	e Structu Hours	re Subject Introduction to the importance of blood diseases and the study of blood components	Explanation of the lecture with the presence of means of illustration and practical application	Forms Classroom and	
9. Cours Week	e Structu Hours	re Subject Introduction to the importance of blood diseases and the study of blood components Hemostasis, its	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the	Forms Classroom and	
9. Cours Week	e Structu Hours	re Subject Introduction to the importance of blood diseases and the study of blood components Hemostasis, its definition and types and	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the	Forms Classroom and laboratory	
9. Cours Week	e Structu Hours	re Subject Introduction to the importance of blood diseases and the study of blood components Hemostasis, its definition and types and the role of blood vessels	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of	Forms Classroom and laboratory Classroom and	
9. Cours Week First	e Structu Hours 3	re Subject Introduction to the importance of blood diseases and the study of blood components Hemostasis, its definition and types and the role of blood vessels and platelets in the	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and	Forms Classroom and laboratory	Exams
9. Cours Week First	e Structu Hours 3	re Subject Introduction to the importance of blood diseases and the study of blood components Hemostasis, its definition and types and the role of blood vessels	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of	Forms Classroom and laboratory Classroom and	Exams
9. Cours Week First	e Structu Hours 3	re Subject Introduction to the importance of blood diseases and the study of blood components Hemostasis, its definition and types and the role of blood vessels and platelets in the	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application	Forms Classroom and laboratory Classroom and	Exams
9. Cours Week First	e Structu Hours 3	re Subject Introduction to the importance of blood diseases and the study of blood components Hemostasis, its definition and types and the role of blood vessels and platelets in the	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application	Forms Classroom and laboratory Classroom and	Exams
9. Cours Week First	e Structu Hours 3	re Subject Introduction to the importance of blood diseases and the study of blood components Hemostasis, its definition and types and the role of blood vessels and platelets in the hemostasis process	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the	Forms Classroom and laboratory Classroom and	Exams
9. Cours Week First	e Structu Hours 3	re Subject Introduction to the importance of blood diseases and the study of blood components Hemostasis, its definition and types and the role of blood vessels and platelets in the	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of	Forms Classroom and laboratory Classroom and laboratory	Exams
9. Cours Week First	e Structu Hours 3	re Subject Introduction to the importance of blood diseases and the study of blood components Hemostasis, its definition and types and the role of blood vessels and platelets in the hemostasis process	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the	Forms Classroom and laboratory Classroom and laboratory Classroom and	Exams

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Fourth	3	The mechanism of the blood clotting process	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and	Exams
Fifth	3	Hemoglobin and problems associated with low and high blood	Explanation of the lecture with the	01	Exams
Sixth	3	Red blood cells, their mechanism of formation and functions, and the problems associated with their imbalance	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Tools, equipment and devices used to diagnose various blood diseases	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	White blood cells and the mechanism of their formation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	White blood cell functions	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Causes and symptoms associated with white blood cell deficiency	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Causes and symptoms associated with increased white blood cells	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Гwelfth	3	Leukemia, its causes and types	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Acute and chronic myelogenous leukemia	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

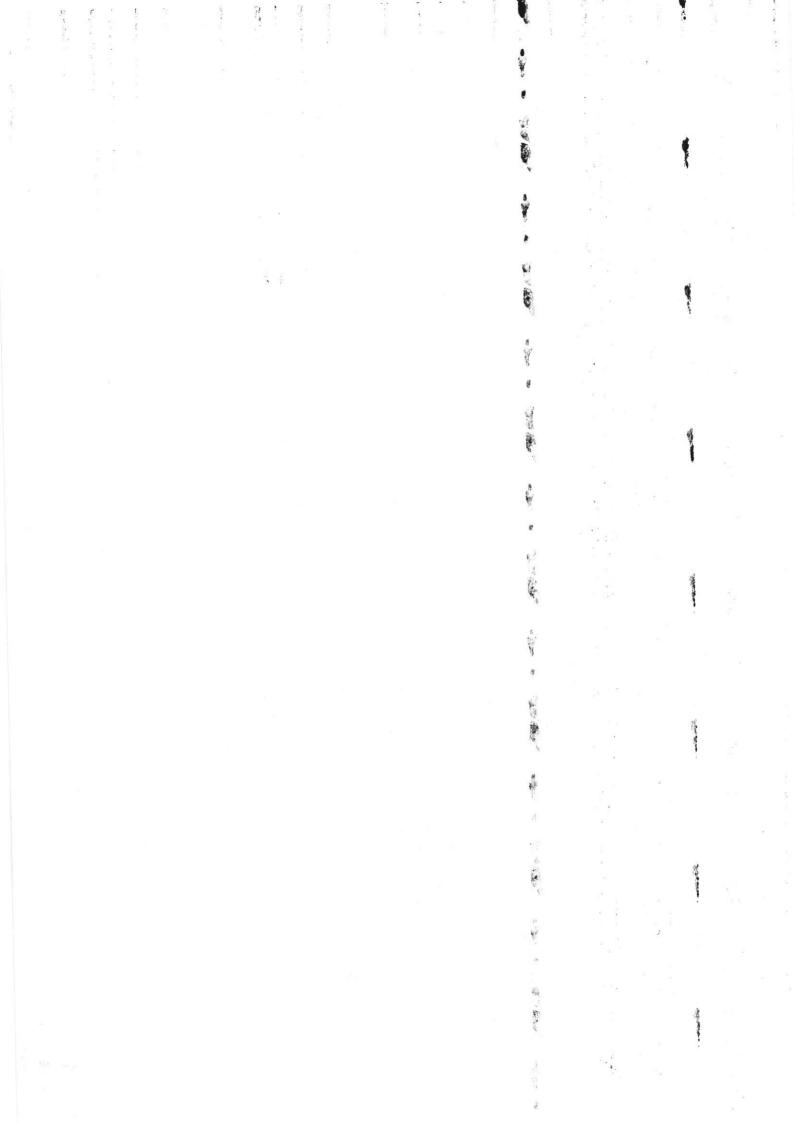


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Fourteenth	3	Monocytic leukemia	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Differential white blood cell test	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
10. Course					*
Daily, mont	hly and f	final exams as well as week	ly reports		
	ng and T	eaching Resources			
Textbooks					
Main referen	nces				
Scientific re					
Scientific re	sources v	within the Internet			



Histology Course Description Form

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1. Cours	and the second	6.1			
Histology		194 Me			
2. Cours	se Code	•			
MLT118		1			
3. Semes		1			
First /Firs	-	3			
4. Descrit	iption pre	paration date			
26/1/2025		1			
		lance formats			
6 Numb	e on a we	ekly basis			
45/3	ci oi Crec	lit Hours (Total) / Number	er of Units (Total)		
	e administ	trator name			
Dr. Hind					
8. Course					
Course O	0		Give a comment !	dag of the	
	Jeenres	P*1	Give a general i	dea of the general	anatomy of the
	-	5	numan body, se	e the structure of	the organs and
		2	study all their	constituent histolo	ogical structures
			under a microsco	pe.	
9. Teachin	ng and Le	arning Strategies			
• Ad	equate ex	planation of the course			
	ily Tests	j.			
	ident grou	DS			
	ld visits	- *			
		Å.			
10. Cours	se Structur	re			
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
		Define some terms	Explanation of the		
D'		that deal with	lecture with the	Classroom	
First	3	histology and	presence of means of	Classroom and	Exams
		cytology,	illustration and	laboratory	
		-,,,	practical application		
		Migroscope and it.	Explanation of the	Classroom and	
Second	3	Microscope and its	lecture with the	laboratory	Exams
Second		parts	presence of means of		Exams
		2 ⁵⁹	illustration and practical application		
4			Explanation of the	Classroom and	
			lecture with the	laboratory	
Third	3	Cell shapes	presence of means of	aboratory	Exams
		T T	illustration and		
		2	practical application		



			Explanation of the lecture with the	Classroom and	
Fourth	3	Simple epithelial tissue	presence of means of illustration and practical application	laboratory	Exams
Fifth	3	Stratified epithelial tissue	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Connective tissue	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Soft connective tissue	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Dense connective tissue	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Specialized connective tissue - blood	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Specialized connective tissue - cartilage	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Specialized connective tissue – hard bone	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	Specialized connective tissue – spongy bone	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Muscle tissue – heart muscle	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

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Fourteenth	3	Muscle tissue – skeletal muscle	Explanation of the lecture with the presence of means of illustration and	Classroom and laboratory	Exams
Fifteenth	3	Muscle tissue – smooth muscle	practical application Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
11. Course	e Evaluati	ion			
Daily, mont	hly and f	inal exams as well as we	ekly reports		
12. Learni	ng and T	eaching Resources			
Textbooks		-			
Main referen	nces				
Scientific re	search	þ			
Scientific re	sources v	vithin the Internet			

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Anatomy Course Description Form

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1. Cours	se Name				
Anatomy					
2. Cours	se Code				
TID110					
	ster/Level				
Second /I					
4. Descr	ription pre	paration date			
26/1/2025					
		lance formats			
6 Numb	ce on a we	ekly basis			
60 / 4	ber of Crec	lit Hours (Total) / Number	er of Units (Total)		
	e administ	trator name			
7. Cours	c aummis				
8. Cours	e Obiectiv	7es			
Course O			• The student's k	nowledge of the	C :1
	0		human body and	nowledge of the	anatomy of the
			the relationship k	l organs, as well a	is knowledge of
1			the relationship b	etween them.	
		arning Strategies			
• Ad	equate ev	planation of the course			
• Au	iequate ex	planation of the course			
	ily Tests	pranation of the course			
• Da					
DaStu	ily Tests				
DaStuFie	uly Tests adent grou eld visits	ips			
 Da Stu Fie 10. Court 	uly Tests udent grou	ips			
DaStuFie	uly Tests adent grou eld visits	ips	Learning method	Attendance Forms	Evaluation method
 Da Stu Fie 10. Court 	ily Tests adent grou eld visits se Structu	re	Explanation of the		Evaluation method
 Da Stu Fie 10. Cour Week 	ily Tests adent grou eld visits se Structu Hours	re	Explanation of the lecture with the	Forms	
 Da Stu Fie 10. Court 	ily Tests adent grou eld visits se Structu	re Subject	Explanation of the lecture with the presence of means of	Forms Classroom and	Evaluation method Exams
 Da Stu Fie 10. Cour Week 	ily Tests adent grou eld visits se Structu Hours	re Subject Anatomical trends	Explanation of the lecture with the presence of means of illustration and	Forms	
 Da Stu Fie 10. Cour Week 	ily Tests adent grou eld visits se Structu Hours	re Subject Anatomical trends and body surfaces	Explanation of the lecture with the presence of means of illustration and practical application	Forms Classroom and laboratory	
 Da Stu Fie 10. Cour Week 	ily Tests adent grou eld visits se Structu Hours	re Subject Anatomical trends and body surfaces Anatomy of the heart,	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the	Forms Classroom and laboratory Classroom and	
 Da Stu Fie 10. Cour Week 	ily Tests adent grou eld visits se Structu Hours	re Subject Anatomical trends and body surfaces Anatomy of the heart, its location according	Explanation of the lecture with the presence of means of illustration and practical application	Forms Classroom and laboratory	Exams
 Da Stu Fie 10. Cour Week First 	ily Tests adent grou eld visits se Structu Hours 3	re Subject Anatomical trends and body surfaces Anatomy of the heart, its location according to the chest wall and	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the	Forms Classroom and laboratory Classroom and	
 Da Stu Fie 10. Cour Week First 	ily Tests adent grou eld visits se Structu Hours 3	re Subject Anatomical trends and body surfaces Anatomy of the heart, its location according	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of	Forms Classroom and laboratory Classroom and	Exams
 Da Stu Fie 10. Cour Week First 	ily Tests adent grou eld visits se Structu Hours 3	re Subject Anatomical trends and body surfaces Anatomy of the heart, its location according to the chest wall and the number of shades	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the	Forms Classroom and laboratory Classroom and	Exams
Da Stu Fie 10. Cour Week First Second	ily Tests adent grou eld visits se Structu Hours 3 3	re Subject Anatomical trends and body surfaces Anatomy of the heart, its location according to the chest wall and the number of shades Anatomy of the lungs,	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the	Forms Classroom and laboratory Classroom and laboratory	Exams Exams
 Da Stu Fie 10. Cour Week First 	ily Tests adent grou eld visits se Structu Hours 3	re Subject Anatomical trends and body surfaces Anatomy of the heart, its location according to the chest wall and the number of shades Anatomy of the lungs, its location according	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of	Forms Classroom and laboratory Classroom and laboratory	Exams
Da Stu Fie 10. Cour Week First Second	ily Tests adent grou eld visits se Structu Hours 3 3	re Subject Anatomical trends and body surfaces Anatomy of the heart, its location according to the chest wall and the number of shades Anatomy of the lungs,	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and	Forms Classroom and laboratory Classroom and laboratory	Exams Exams
Da Stu Fie 10. Cour Week First Second	ily Tests adent grou eld visits se Structu Hours 3 3	re Subject Anatomical trends and body surfaces Anatomy of the heart, its location according to the chest wall and the number of shades Anatomy of the lungs, its location according to the chest wall and the number of ribs	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application	Forms Classroom and laboratory Classroom and laboratory Classroom and laboratory	Exams Exams
Da Stu Fie 10. Cour Week First Second	ily Tests adent grou eld visits se Structu Hours 3 3	re Subject Anatomical trends and body surfaces Anatomy of the heart, its location according to the chest wall and the number of shades Anatomy of the lungs, its location according to the chest wall and	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and	Forms Classroom and laboratory Classroom and laboratory	Exams Exams

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		and horizontally	illustration and		
Fifth	3	Anatomy of the stomach - its sections and its relationship to other organs	practical application Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Anatomy of the liver and spleen and their location according to bodily surfaces	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Anatomy of the small intestine and its relationship to other organs in the abdominal cavity	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Anatomy of the cecum and its location within the abdominal cavity	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Bile cyst anatomy and location	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Anatomy of the uterus and its location within the pelvic cavity	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Skeleton, Skull and Spine	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
ſwelfth	3	Shoulder bones, plank and collarbone	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Forearm bone and parts	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

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Fourteenth	3	Hand and thigh bones	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Pelvic bones and lower limbs	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
	e Evaluat				
Daily, mont	thly and f	final exams as well as we	ekly reports		
12. Learni	ng and T	eaching Resources			
Textbooks					
Main refere					
Scientific re					
Scientific re	sources v	within the Internet			

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Course Description Form Laboratory Techniques and Quality Control

1. Course Name									
Laboratory techniques and quality control									
2. Course Code									
MLT112									
3. Semes	3. Semester / Level								
Second/First									
4. Descri	ption pre	paration date							
26/1/2025									
	5. Available attendance formats								
Attendanc	Attendance on a weekly basis								
6. Numbe	er of Crea	lit Hours (Total) / Number	er of Units (Total)						
45/3									
7. Course	adminis	trator name							
8. Course		res							
Course O	bjectives		• Identify the differe	ent laboratory tec	chniques for detecting				
			various diseases within a	different body fluid	ls				
0			 Identify the basics of 	quality control					
9. Teachir	ig and Le	arning Strategies							
		planation of the course							
100	ly Tests								
	dent grou	ips							
• Fiel	ld visits								
10 0	C :								
10. Cours	e Structu	re							
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method				
First	3	Introduction to laboratory techniques, including the basics of testing techniques for diagnosing various diseases, how to manage the laboratory, prepare samples, classify and teach them, and occupational safety	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams				
Second	3	Definition of microorganisms, their composition, classification and ways of living	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams				

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Third	3	The mechanism of action of bacteria in terms of metabolism, nutrition, reproduction and growth	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourth	3	Sterilization methods and tools used in it	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	Methods of detecting bacteria through the use of coloring with special chemical colorants	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Methods of detecting bacteria through culture in different culture media	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Bacterial culture methods depending on the type of culture medium and the type of bacteria	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Different methods of collecting bacterial samples	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Methods of preserving bacterial samples and how to deliver them to the laboratory	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Γenth	3	Introduction to blood and its components	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Methods of preserving blood samples and anticoagulants	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

Twelfth	3	Definition of hemoglobin Hb and the different ways to determine its levels	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Definition of the volume of compressed blood cells PCV and the different methods for determining their levels	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	3	Definition of ESR and different methods for determining ESR levels	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Definition of white blood cells and the different ways to detect their levels	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
	Evaluati				
Daily, mont	hly and f	inal exams as well as wee	ekly reports		
12. Learnin	ng and Te	eaching Resources			
Textbooks Main referer					C
Scientific re					
		vithin the Internet			
	sources v	inini me miernet			

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Sample Course Description of the Crimes of the Baath Regime in Iraq

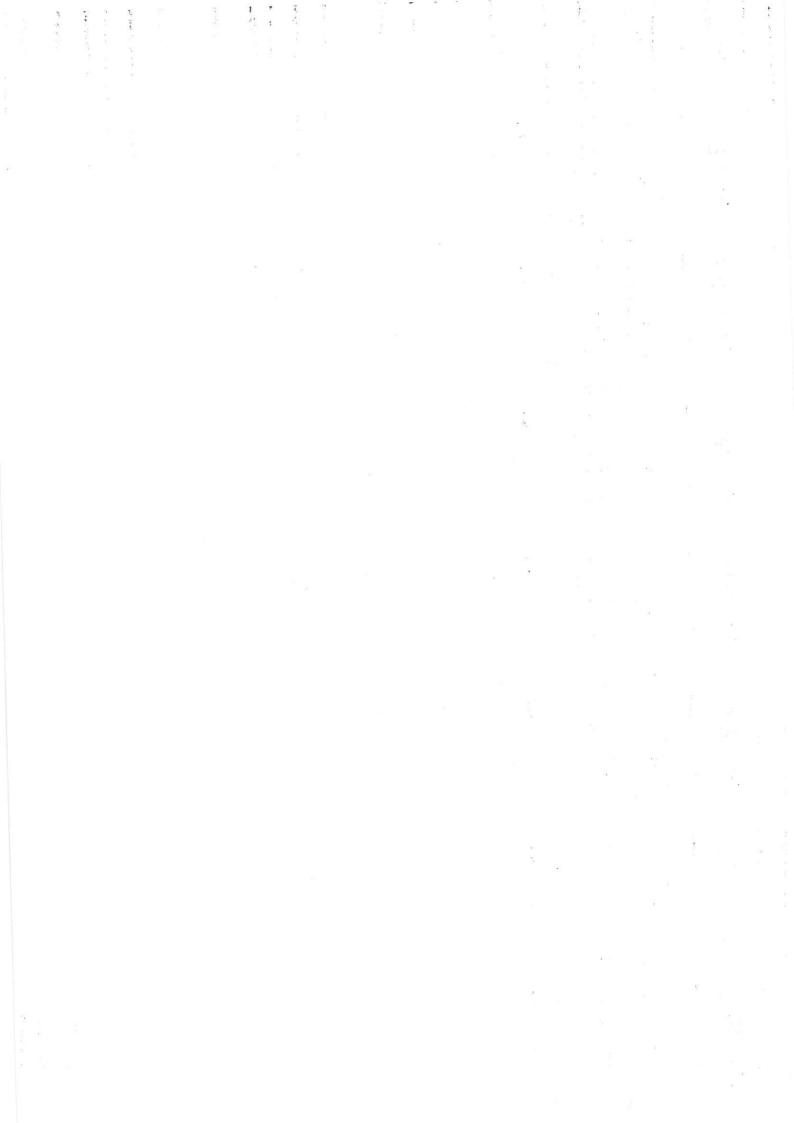
1. Course Name	
Crimes of the Baath regime in Iraq	
2. Course Code	
NTU203	
3. Semester / Level	
First / Second	
4. Description preparation date	
26/1/2025	
5. Available attendance formats	
Attendance on a weekly basis	
6. Number of Credit Hours (Total) / Number of Credit Hours (Total)	ber of Units (Total)
2/30	
7. Course Objectives	
Course Objectives	 Introducing the Baath regime and its emergence in Iraq and the types of crimes practiced by it over decades and studying the motives behind the implementation of various crimes against the Iraqi people.
8. Teaching and Learning Strategies	
• Adequate explanation of the course	
Daily Tests	
. Student groups	

Student groups

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9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	3	Basic political terminology	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Second	3	The emergence of the Baath Party in Iraq	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Third	3	Types of crime	Explanation of the lecture with the presence of means of illustration	Classroom	Exams



Fourth	3	Causes and motives of the crime	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Fifth	3	Perpetrators of Baath regime crimes	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Sixth	3	The United Nations' view of the crimes of the Baath regime	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Seventh	3	Human rights and crimes of the Baath regime	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Eighth	3	Human rights violations by the Baath regime	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Ninth	3	Military crimes	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Tenth	3	Political crimes	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Eleventh	3	Economic crimes	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Twelfth	3	Civil offenses	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Thirteenth	3	Social crimes	Explanation of the lecture with the presence of means of illustration	Classroom	Exams



Fourteenth	3	Genocide	Explanation of the lecture with the presence of means	Classroom	Exams
			of illustration		
Fifteenth	3	Mass graves	Explanation of the lecture with the presence of means	Classroom	Exams
10. Course	o Evolue		of illustration		
11 T	uny and	final exams as well as y	weekly reports		
11. Learni	ng and	Feaching Resources			
Textbooks					
Main refere	nces				
Scientific re	sources	within the Internet			



Computer Course Description Form

1. Cour	se Name				
Compute					
2. Cours	the second se				
NTU102	and the second				
3. Seme	ster / Le	vel			
First / Fir					
4. Descr	ription pro	eparation date			
26/1/2025	5				
5. Availa	able atten	dance formats			
Attendand	ce on a w	eekly basis			
6. Numb	per of Cre	dit Hours (Total) / Number	r of Units (Total)		
2730			(I of emits (I otal)		
7. Cours	e Objecti	ves			
Course O	bjectives	1	• The student	is familiar with	41 1100
			computer and	nis ianinar with	the different
			between the tr	plications and c	an distinguish
			between the ty	pes of software the	hat can be dealt
			with		
8. Teaching	ng and Le	earning Strategies			
• Ad	lequate ex	planation of the course			
	ily Tests				
• Stu	ident grou	ips			
		-			
9. Cours	se Structu	ire			
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
		The concept of	Explanation of the	Tomis	
First		networks and their	lecture with the	CI	
FIrst	3	types - the concept of	presence of means of	Classroom	Exams
		the Internet and its	illustration and	and laboratory	
		operation	practical application		
		Description of the home	Explanation of the		
Second	3	screen and its	lecture with the	Classroom	
~ • • • • • • • • • • • • • • • • • • •		components -How to connect to the	presence of means of	and laboratory	Exams
		World Wide Web	illustration and	und nuccinitory	
		world wide web	practical application		
		TT	Explanation of the		
2		How to take advantage	lecture with the		
T1 · 1		C I		01	
Third	3	of popular search		Classroom	Exams
Third	3	engines such as	presence of means of illustration and	Classroom and laboratory	Exams
Third	3		presence of means of illustration and		Exams
I hird	3	engines such as	presence of means of		Exams

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Fourth	3	Learn how to search for information and how to access it	r Explanation of the lecture with the presence of means of illustration and practical application	and laboratory	Exams
Fifth	3	Excel program to identify the concept of the program - benefits - specifications, features and methods of operation	Explanation of the		Exams
Sixth	3	Learn about the home screen and its components and contain various menus and active tools	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	The concept of the cell - the types of basic data and how to enter it	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	How to save a work page - Close the program and close the file	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Using some functions provided by the program such as count, SQRT, Ave, sum, Min, Max and other relevant useful statistical functions	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
ſenth	3	Learn about the editing process provided by the software and	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
leventh	3	How to copy data or transfer data and learn about the concept of copying calculations as well as the concept of relative cells and absolute cells	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
welfth	3	Control cell width – change its style and theme through the use of formatting tools	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams



Thirteenth	3	Word program to identify the concept of the program - its benefits - specifications, features and methods of operation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	3	Various Word applications	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	SPSS Statistical Program - Program Concept and Operation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Daily, montl 11. Learnir Textbooks Main referen	ig and Te	nal exams as well as week aching Resources			
cientific res	sources w	ithin the Internet			



Human Rights and Democracy Course Description Form

1 Con	rse Name				
Human	Rights and	d Democracy			
	rse Code				
MLT114	-				
5. Sem First /Fin	ester / Le	vel			
4. Desc 26/1/202	ription pro	eparation date			
		idance formats			
Attendan	iable allen	eekly basis			
6. Num	her of Cro	dit House (T. 1. 1)			
2/30	UCI UI CIE	dit Hours (Total) / Num	ber of Units (Total)		
	se Objecti	VAC			
Course (Objectives	vcs			
	- ~ jeetives	,	• Identify the free	eedoms due to mer	mbers of society
			and the role of	f each individual in	terms of rights
			and duties, as	well as identify the	he various state
			policies	,	, allous state
8. Teachi	ing and Le	earning Strategies			
• Ac	dequate ex	planation of the course			
	1	r - mailon of the course			
• Da	aily Tests				
• Da	aily Tests				
• Da	aily Tests udent grou				
DaStu	aily Tests	ips			
• Da • Stu 9. Cour	aily Tests udent grou se Structu	ips re		Attand	
DaStu	aily Tests udent grou	ips	Learning method	Attendance	Evaluation method
• Da • Stu 9. Cour	aily Tests udent grou se Structu	ips re Subject		Attendance Forms	Evaluation method
• Da • Stu 9. Cour Week	aily Tests udent grou se Structu	re Subject The concept of	Explanation of the lecture with the	Forms	
• Da • Stu 9. Cour Week	aily Tests udent grou se Structu Hours	re Subject The concept of freedom and	Explanation of the lecture with the presence of means of	Forms Classroom and	Evaluation method Exams
• Da • Stu 9. Cour	aily Tests udent grou se Structu Hours	re Subject The concept of	Explanation of the lecture with the presence of means of illustration	Forms	
Da Str Str Our Week First	aily Tests udent grou se Structu Hours 2	re Subject The concept of freedom and democracy	Explanation of the lecture with the presence of means of illustration Explanation of the	Forms Classroom and	
 Da Student 9. Courrest Week First 	aily Tests udent grou se Structu Hours	re Subject The concept of freedom and	Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the	Forms Classroom and laboratory	Exams
 Da Student 9. Courrest Week First 	aily Tests udent grou se Structu Hours 2	re Subject The concept of freedom and democracy Rights and duties of	Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the presence of means of	FormsClassroom and laboratoryClassroom and	
• Da • Str 9. Cour Week	aily Tests udent grou se Structu Hours 2	re Subject The concept of freedom and democracy Rights and duties of	Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the presence of means of illustration	Forms Classroom and laboratory Classroom and laboratory	Exams
Da Str Str Second	aily Tests udent grou rse Structu Hours 2 2	re Subject The concept of freedom and democracy Rights and duties of the citizen	Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the presence of means of illustration Explanation of the	FormsClassroom and laboratoryClassroom and laboratoryClassroom and laboratoryClassroom and laboratory	Exams
Da Str Str Our Week First	aily Tests udent grou se Structu Hours 2	re Subject The concept of freedom and democracy Rights and duties of the citizen The concept of the	Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the	Forms Classroom and laboratory Classroom and laboratory	Exams
Da Str Str Second	aily Tests udent grou rse Structu Hours 2 2	re Subject The concept of freedom and democracy Rights and duties of the citizen	Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the presence of means of	FormsClassroom and laboratoryClassroom and laboratoryClassroom and laboratoryClassroom and laboratory	Exams Exams
Da Str Str Second	aily Tests udent grou rse Structu Hours 2 2	re Subject The concept of freedom and democracy Rights and duties of the citizen The concept of the state and government	Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the presence of means of illustration	Forms Classroom and laboratory Classroom and laboratory Classroom and laboratory	Exams Exams
Da Str Str Second	aily Tests udent grou se Structu Hours 2 2 2	re Subject The concept of freedom and democracy Rights and duties of the citizen The concept of the state and government Intellectual and	Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the presence of means of	FormsClassroom and laboratoryClassroom and laboratoryClassroom and laboratoryClassroom and laboratoryClassroom and laboratory	Exams Exams Exams
Da Str Str Second Third	aily Tests udent grou rse Structu Hours 2 2	re Subject The concept of freedom and democracy Rights and duties of the citizen The concept of the state and government	Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the	Forms Classroom and laboratory Classroom and laboratory Classroom and laboratory	Exams Exams
Da Str Str Second Third	aily Tests udent grou se Structu Hours 2 2 2	re Subject The concept of freedom and democracy Rights and duties of the citizen The concept of the state and government Intellectual and	Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the presence of means of illustration Explanation of the	FormsClassroom and laboratoryClassroom and laboratoryClassroom and laboratoryClassroom and laboratoryClassroom and laboratory	Exams Exams Exams
 Da Str 9. Cour Week First Second Third Fourth 	aily Tests udent grou se Structu Hours 2 2 2	re Subject The concept of freedom and democracy Rights and duties of the citizen The concept of the state and government Intellectual and cultural freedom	Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the presence of means of illustration	FormsClassroom and laboratoryClassroom and laboratoryClassroom and laboratoryClassroom and laboratoryClassroom and laboratory	Exams Exams Exams
Da Str Str Second Third	aily Tests udent grou se Structu Hours 2 2 2	re Subject Ithe concept of freedom and democracy Rights and duties of the citizen The concept of the state and government Intellectual and cultural freedom Economic and social	Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the presence of means of illustration	FormsClassroom and laboratoryClassroom and laboratoryClassroom and laboratoryClassroom and laboratoryClassroom and laboratory	Exams Exams Exams Exams
 Da Str 9. Cour Week First Second Third Fourth 	aily Tests udent grou rse Structu Hours 2 2 2 2 2	re Subject The concept of freedom and democracy Rights and duties of the citizen The concept of the state and government Intellectual and cultural freedom	Explanation of the lecture with the presence of means of illustration Explanation of the lecture with the presence of means of illustration	FormsClassroom and laboratoryClassroom and laboratoryClassroom and laboratoryClassroom and laboratoryClassroom and laboratoryClassroom and laboratory	Exams Exams Exams

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Sixth	2	Right to vote and participate in elections	Explanation of the lecture with the presence of means of illustration	Classroom an laboratory	nd Exams
Seventh	2	Freedom to form trade unions and associations	Explanation of the lecture with the presence of means of illustration	Classroom an laboratory	nd Exams
Eighth	2	Freedom of social security and health care	Explanation of the lecture with the presence of means of illustration	Classroom an laboratory	nd Exams
Ninth	2	Democracy, its goals and ways to achieve it	Explanation of the lecture with the presence of means of illustration	Classroom at laboratory	nd Exams
Tenth	2	Forms of democracy	Explanation of the lecture with the presence of means of illustration	Classroom a laboratory	nd Exams
Eleventh	2	Democracy in Iraq	Explanation of the lecture with the presence of means of illustration	Classroom a laboratory	nd Exams
Twelfth	2	People's participation in legislative work	Explanation of the lecture with the presence of means of illustration	Classroom a laboratory	nd Exams
Thirteenth	2	The referendum and its types and causes	Explanation of the lecture with the presence of means of illustration	Classroom a laboratory	Exams
Fourteenth	2	Popular referendum and popular solution	Explanation of the lecture with the presence of means of illustration	Classroom a laboratory	end Exams
Fifteenth	2	Election of the Iraqi Transitional National Assembly	Explanation of the lecture with the presence of means of illustration	Classroom a laboratory	and Exams
	e Evalua				
		final exams as well as we	eekly reports		
	ing and T	Teaching Resources			
Textbooks Main refere	nces				
Iviain refere		within the Internet			

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Sport Course Description Form

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	se Name				
Sport					
2. Cours					
NTU104					
3. Seme		1			
Second /I					
4. Descr	iption pre	paration date			
26/1/2025					
5. Availa	able atten	dance formats			
Attendand	ce on a we	eekly basis			
6. Numb	per of Cree	dit Hours (Total) / Numb	er of Units (Total)		
2/30					
7. Course O					
			concept of e development, i exercise schools derived exercise develop the basi	as to provide the exercises and ntroduce him to , introduce him to situations and sp c motor skills of e e types of sports,	their historical the different the original and becial situations, exercise, as well
AdDatStu		arning Strategies planation of the course			
9. Cours	se Structu	re			
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	2	Introduction to sport and its benefits	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Second	2	Terms in the anatomy of the human body	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Third	2	The skeletal system of the human body	Explanation of the lecture with the presence of means of illustration and	Classroom and sports hall	Exams

illustration and practical application

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Fourth	2	Muscular system of the human body	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Fifth	2	The nervous system of the human body	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Sixth	2	Sports Medicine and Sports Injuries	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Seventh	2	First aid for sports injuries	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Eighth	2	Fatigue and ways to treat it	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Ninth	2	Ethics and sportsmanship	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Tenth	2	Football Laws	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Eleventh	2	Basketball Laws	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Twelfth	2	Volleyball Laws	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Thirteenth	2	Tennis Laws	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams



Fourteenth	2	Swimming radiance and its benefits	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Fifteenth	2	Athletes of the arena and the field and its laws	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
10. Course	e Evaluat	ion			
Daily, mont	hly and f	final exams as well as we	ekly reports		
11. Learni	ng and T	eaching Resources			
Textbooks					
Main refere	nces				
Scientific re	sources	within the Internet			

Laboratory and Workshop Safety Course Description Form

1. Course					
Safety of la		s and workshops			
2. Course		s and workshops			
TID108	cour				
Contraction of the second second	er/Level				
First /First					
	otion pren	aration date			
26/1/2025	non prop				
	ole attenda	ance formats			
Attendance					
		t Hours (Total) / Number	of Units (Total)		
2/30					
	administr	ator name			
8. Course	Objective	s			
Course Obj			• Identify the rules	of safety and secur	ity and the
,			1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 -	h sources of hazard	
			laboratories and v		
			laboratories and v	vorkshops	
9. Teachin	g and Lea	rning Strategies			
		planation of the course			
 Dat 	ly Tests				
	ly Tests dent grou	25			
• Stu	dent grou	os			
• Stu	•	<u>9</u> 5			
StudeField	dent grou				
StudeField	dent group d visits	e	Learning method	Attendance	Evaluation method
• Stud • Fiel 10. Cours	dent grouj d visits e Structur			Attendance Forms	Evaluation method
• Stud • Fiel 10. Cours	dent grouj d visits e Structur	e	Explanation of the	CANADA SECTION AND A SECTION AND	Evaluation method
• Stud • Fiel 10. Cours Week	dent group d visits e Structur Hours	e Subject	Explanation of the lecture with the	CANADA SECTION AND A SECTION AND	Evaluation method Exams
• Stu • Fiel 10. Cours	dent grouj d visits e Structur	re Subject Basic equipment to be	Explanation of the lecture with the presence of means of	Forms	
• Stud • Fiel 10. Cours Week	dent group d visits e Structur Hours	e Subject Basic equipment to be available in the	Explanation of the lecture with the presence of means of illustration and	Forms Classroom and	
• Stud • Fiel 10. Cours Week	dent group d visits e Structur Hours	re Subject Basic equipment to be available in the laboratory (laboratory arrangements)	Explanation of the lecture with the presence of means of illustration and practical application	Forms Classroom and	
• Stud • Fiel 10. Cours Week	dent group d visits e Structur Hours	re Subject Basic equipment to be available in the laboratory (laboratory arrangements) Safety precautions	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the	Forms Classroom and laboratory	
• Stu • Fiel 10. Cours Week First	dent group devisits e Structur Hours 3	re Subject Basic equipment to be available in the laboratory (laboratory arrangements) Safety precautions when handling	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the	Forms Classroom and laboratory Classroom and	
• Stud • Fiel 10. Cours Week	dent group d visits e Structur Hours	re Subject Basic equipment to be available in the laboratory (laboratory arrangements) Safety precautions when handling laboratory	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of	Forms Classroom and laboratory	Exams
 Stude Fiel 10. Course Week First 	dent group devisits e Structur Hours 3	re Subject Basic equipment to be available in the laboratory (laboratory arrangements) Safety precautions when handling laboratory instruments,	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and	Forms Classroom and laboratory Classroom and	Exams
 Stude Field 10. Course Week First 	dent group devisits e Structur Hours 3	re Subject Basic equipment to be available in the laboratory (laboratory arrangements) Safety precautions when handling laboratory	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application	Forms Classroom and laboratory Classroom and	Exams
• Stu • Fiel 10. Cours Week First	dent group devisits e Structur Hours 3	re Subject Basic equipment to be available in the laboratory (laboratory arrangements) Safety precautions when handling laboratory instruments, chemicals	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the	Forms Classroom and laboratory Classroom and	Exams
 Stude Field 10. Course Week First Second 	dent group dent group de visits e Structur Hours 3 3	re Subject Basic equipment to be available in the laboratory (laboratory arrangements) Safety precautions when handling laboratory instruments, chemicals Safety precautions	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the	Forms Classroom and laboratory Classroom and	Exams
 Stude Field 10. Course Week First 	dent group devisits e Structur Hours 3	re Subject Basic equipment to be available in the laboratory (laboratory arrangements) Safety precautions when handling laboratory instruments, chemicals Safety precautions upon completion of	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of	Forms Classroom and laboratory Classroom and laboratory	Exams
 Stude Field 10. Course Week First Second 	dent group dent group de visits e Structur Hours 3 3	re Subject Basic equipment to be available in the laboratory (laboratory arrangements) Safety precautions when handling laboratory instruments, chemicals Safety precautions	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the	Forms Classroom and laboratory Classroom and laboratory Classroom and laboratory	Exams

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Fourth	3	Fires and their types	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
fifth	3	Fire extinguishing means	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Personal Protective Equipment	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Chemical hazards - and how to deal with them	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Radiological hazards	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Biological hazards	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Laboratory (medical) waste disposal	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	First aid in laboratories	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	Use of warning signs in the laboratory	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Environmental factors and their impact on safety and health (light, noise, heat, humidity)	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

Fourteenth	3	Safety in Field Studies	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams		
Fifteenth	3	Chemical and medical storage methods	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams		
11. Course							
		final exams as well as we	ekly reports				
12. Learning and Teaching Resources							
Textbooks							
Main refere	ences						
Scientific re	esearch						
Scientific re	esources	within the Internet					



Course Description Form for Textile Slides

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1 Course	Name				Provide a second second second
Textile slat					
2. Course					
MLT113	Coue				
3. Semest	tor/Loval				
First /First					
		arotion data			
4.000000000000000000000000000000000000	puon prepa	aration date			
the second second second second second	hla attanda	ance formats			
Attendance					
		t Hours (Total) / Number	of Units (Total)		
45 / 3	er of Clear	(Total) / Nulliber	of Units (Total)		
	administr	ator name			
Mustafa Ta					
8. Course					
Course Ol		0	• Give a general id	lea of how to prep	nare nermanent
Course Of	ojectives		e		-
			ussue segments fo	or different organs	of the body
9 Teachir	ng and Lea	rning Strategies			
		planation of the course			
	ily Tests				
	ident grou	25			
	ld visits	58			
• Fie	Id VISIUS				
10. Cours	se Structur				
Week	Hours	'e			
		e Subject	Learning method	Attendance Forms	Evaluation method
First	3	Subject Define some terms that deal with histology and	Explanation of the lecture with the presence of means of illustration and		Evaluation method Exams
First Second		Subject Define some terms that deal with	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and	Forms Classroom and	
	3	Subject Define some terms that deal with histology and cytology, Sample collection	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of	Forms Classroom and laboratory Classroom and	Exams

presence of means of illustration and

Routine and special fixatives

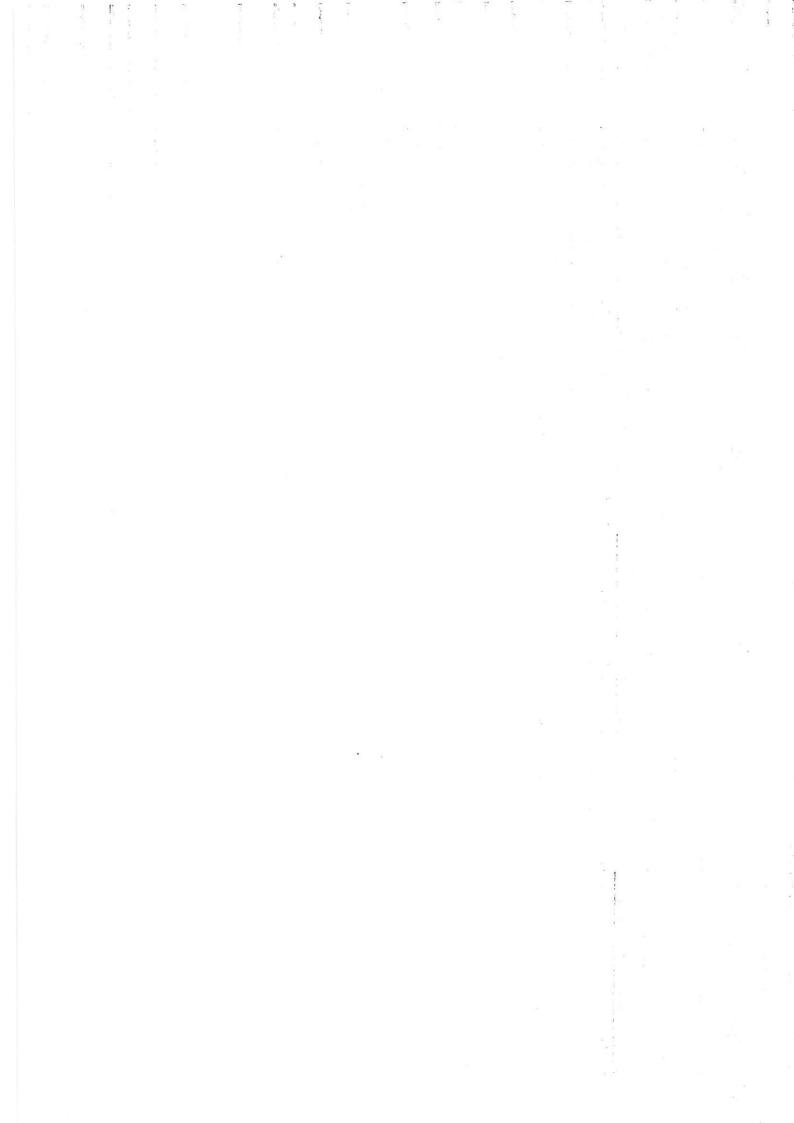
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			practical application		
Fifth	3	Sample washing solutions	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Drying and types of dryers	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Clearing	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Infiltration and embedding medium	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Casting and Triming	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Sectioning	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Microtomes	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	Staining	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Routine colorants for tissue slides	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	3	Special colorants for tissue slides	Explanation of the lecture with the presence of means of illustration and	Classroom and laboratory	Exams

			practical application		
Fifteenth	3	Microscopy	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
11. Cours	e Evaluat	ion			
Daily, mon	thly and f	final exams as well as we	eekly reports		
12. Learn	ing and T	eaching Resources			
Textbooks					
Main refere	ences				
Scientific r	esearch				
Scientific r	esources	within the Internet			



Arabic Course Description Form

1. Course	Nome		-		
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2. Course					
NTU103	Couc				
	er / Level				
First /First					
	ntion prens	aration date			
26/1/2025	non prepe				
	nle attenda	ince formats			
Attendance					
and the second se		t Hours (Total) / Number	of Units (Total)		
45 / 3			or onus (rour)		
7. Course	Objective	ic.			
Course Ol		/ 5	• It aims to enable	students with A	rabic language
Course Of	ojectives			ies at all lev	
					· ·
			morphological, g	grammatical, sem	annic, stynstic,
			and written		
9 Taashir	a and I as	rning Strategies			
	and the second se				
		planation of the course			
	ily Tests				
• Stu	dent group	os			
9. Cours	se Structur	' P			
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
			Explanation of the		
		Tutus dustion to	lecture with the		
First	3	3 Introduction to linguistic errors	presence of means of	Classroom	Exams
			illustration and		
			practical application		
		Rules for writing an	Explanation of the		
		elongated and	lecture with the	Exam	Exams
Second	3	3 elongated and compartment	presence of means of	Classroom	LXAIIIS
		thousand	illustration and		
		ulousallu	practical application		
			Explanation of the		
			lecture with the		Exams
Third	3	Al-Daad and Al-Zaa	presence of means of	Classroom	L'Aams
			illustration and		
			practical application		
			Explanation of the		
			lecture with the		Exams
Fourth		to to the second s			H.X.AIIIS
Fourth	3	Hamza writing	presence of means of	Classroom	Exams
Fourth	3	Hamza writing	presence of means of illustration and practical application	Classroom	Exams

Fifth	3	Punctuation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Sixth	3	Noun and verb and differentiate between them	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Seventh	3	Effects	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eighth	3	Number	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Ninth	3	Applications of common linguistic errors	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Tenth	3	Noon and Tanween	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eleventh	3	Formal aspects of administrative discourse	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Twelfth	3	Meanings of prepositions	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Thirteenth	3	Solar and lunar letters	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fourteenth	3	T tied and long	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams



Fifteenth	3	T Open	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
10. Cours	e Evaluat	ion			
Daily, mon	thly and f	final exams as well as we	eekly reports		
11. Learn	ing and T	eaching Resources			
Textbooks					
Main refere	ences				
Scientific r	esources	within the Internet			



Physiology Course Description Form

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1. Course	Name				
Physiology					
2. Course	and the second se				
TID106					
3. Semeste	er / Level				
Second /Fir	st				
4. Descrip	tion prepa	aration date			
26/1/2025					
5. Availab	le attenda	ince formats			
Attendance					
	r of Credi	t Hours (Total) / Number	of Units (Total)		
60 / 4					
7. Course	administr	ator name			
0 0	01:				
8. Course		S	The student's line	owledge of the fu	nction of each
Course Ob	jectives				
			•	an body and its role	e in the balance
			of the body		
0 Teachin	a and Lea	rning Strategies			
J. I cacimi		uning buategies			
• Ade	equate exp	planation of the course			
AdeDai	equate exp ly Tests	planation of the course			
AdeDaiStud	equate exp ly Tests dent grouj	planation of the course			
AdeDaiStud	equate exp ly Tests	planation of the course			
AdeDaiStudFiel	equate exp ly Tests dent grouj	planation of the course			
 Ade Dai Stud Fiel 	equate exp ly Tests dent group d visits	planation of the course	Learning method	Attendance Forms	Evaluation method
 Ade Dai Stud Fiel 10. Cours 	equate exp ly Tests dent group d visits e Structur	planation of the course ps re Subject	Learning method		Evaluation method
 Ade Dai Stud Fiel 10. Cours 	equate exp ly Tests dent group d visits e Structur	blanation of the course ps re Subject Blood – its			Evaluation method
 Ade Dai Stud Fiel 10. Cours 	equate exp ly Tests dent group d visits e Structur	planation of the course ps re Subject	Explanation of the		Evaluation method
 Ade Dai Stud Fiel 10. Cours Week 	equate exp ly Tests dent group d visits e Structur Hours	blanation of the course ps re Subject Blood – its components – blood	Explanation of the lecture with the	Forms Classroom and	Evaluation method Exams
 Ade Dai Stud Fiel 10. Cours 	equate exp ly Tests dent group d visits e Structur	Planation of the course ps re Subject Blood – its components – blood swab – blood volume – red blood cells – number of red blood	Explanation of the lecture with the presence of means of	Forms	
 Ade Dai Stud Fiel 10. Cours Week 	equate exp ly Tests dent group d visits e Structur Hours	Planation of the course ps The Subject Blood – its components – blood swab – blood volume – red blood cells – number of red blood cells – shape –	Explanation of the lecture with the presence of means of illustration and	Forms Classroom and	
 Ade Dai Stud Fiel 10. Cours Week 	equate exp ly Tests dent group d visits e Structur Hours	blanation of the course ps Te Subject Blood – its components – blood swab – blood volume – red blood cells – number of red blood cells – shape – method of counting	Explanation of the lecture with the presence of means of	Forms Classroom and	
 Ade Dai Stud Fiel 10. Cours Week 	equate exp ly Tests dent group d visits e Structur Hours	Planation of the course ps The Subject Blood – its components – blood swab – blood volume – red blood cells – number of red blood cells – shape –	Explanation of the lecture with the presence of means of illustration and practical application	Forms Classroom and laboratory	
 Ade Dai Stud Fiel 10. Cours Week 	equate exp ly Tests dent group d visits e Structur Hours	Planation of the course ps Te Subject Blood – its components – blood swab – blood volume – red blood cells – number of red blood cells – shape – method of counting them	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the	Forms Classroom and laboratory Classroom and	
 Ade Dai Stud Fiel 10. Cours Week 	equate exp ly Tests dent group d visits e Structur Hours	e Subject Blood – its components – blood swab – blood volume – red blood cells – number of red blood cells – shape – method of counting them Leukocytes - their	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the	Forms Classroom and laboratory	
 Ade Dai Stud Fiel 10. Cours Week 	equate exp ly Tests dent group d visits e Structur Hours	blanation of the course os Te Subject Blood – its components – blood swab – blood volume – red blood cells – number of red blood cells – shape – method of counting them Leukocytes - their number - types - the	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of	Forms Classroom and laboratory Classroom and	Exams
 Ade Dai Stud Fiel 10. Cours Week 	equate exp ly Tests dent group d visits e Structur Hours	e Subject Blood – its components – blood swab – blood volume – red blood cells – number of red blood cells – shape – method of counting them Leukocytes - their number - types - the normal proportions of	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and	Forms Classroom and laboratory Classroom and	
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 Ade Dai Stud Fiel 10. Cours Week 	equate exp ly Tests dent group d visits e Structur Hours 3	e Subject Blood – its components – blood swab – blood volume – red blood cells – number of red blood cells – shape – method of counting them Leukocytes - their number - types - the normal proportions of	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and	Forms Classroom and laboratory Classroom and	Exams



Third	3	Blood clotting – blood acidity – blood discs and their function.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourth	3	Anemia – types of anemia.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	Jaundice - its types - causes of jaundice - erythrocyte decomposition.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Cardiovascular system – Overview of the anatomy of the circulatory system – Anatomy of the heart – Heart valves.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	The location of the heart relative to the surface of the living body - the heart as a pump - cardiac subtraction.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	ECG – cardiac sounds – cardiac valve areas – natural sounds.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Arterial blood pressure – silent blood flow – atmospheric pressure – blood pressure measurement.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Factors affecting blood pressure - high - low - central control of blood vessels - measurement of high blood pressure - low.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

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Eleventh	3	Respiratory system – respiratory muscles – diaphragm – diaphragm function relative to the lungs.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	Respiratory volumes – spare volume of exhalation – reserve volume of inhalation – vital capacity – factors affecting vital capacity.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Diseases that affect the effectiveness of respiratory volumes – nasal function.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	3	Pulmonary alveoli function	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Digestive system – mouth – pharynx.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

11. Course Evaluation	
Daily, monthly and final exams as well as weekly reports	
12. Learning and Teaching Resources	
Textbooks	
Main references	
Scientific research	
Scientific resources within the Internet	





Medical Mycology Course Description Form

1. Course	Nama				
Medicinal f					
2. Course					
MT212	couc				
3. Semeste	r / Level				
Second / Se	cond				
4. Descript	tion prepa	aration date			
26/1/2025					
5. Availab	le attenda	ance formats			
Attendance	on a wee	kly basis			
6. Number	of Credi	t Hours (College) / Number	of Units (College)		
45/3					
7. Course a	administr	ator name			
8. Course	the second s	2S			
Course Ob	jectives			dical mycology, th	
		2		reproduction, imp	25.0
			of diagnosis	and isolation, as	s well as its
			economic and r	nedical importance	e.
		rning Strategies			
		planation of the course			
	y Tests				
	lent grouj	ps			
• Field	d visits				
10. Course	e Structur	•			
CARLES SALES				Attendance	Evaluation method
Week	Hours	Subject	Learning method	Forms	Evaluation method
			Explanation of the		
		Definition and	lecture with the	Classroom and	Enomo
First	3	classification of	presence of means of	laboratory	Exams
1		medicinal fungi	illustration and	1400141019	
			practical application		
		Farming characteristics	Explanation of the	0	
G 1	2	of fungi and types of	lecture with the	Classroom and	Exams
Second	3	culture media	presence of means of illustration and	laboratory	
			practical application		
			Explanation of the		
			lecture with the	C1	
Third	3	Methods of growing and	presence of means of	Classroom and	Exams
		insulating fungi	illustration and	laboratory	
1	1		practical application		



Fourth	3	Tools, equipment and devices used in the diagnosis of fungi	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	Biochemical tests used to diagnose fungi	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Microscopic tests used to diagnose fungi	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	General basics in the treatment of fungal diseases	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Dermal fungi	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Candidiasis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Cryptococci Ghati	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Cytocytopenia	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	Aspergillosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Trichophytosis sporosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

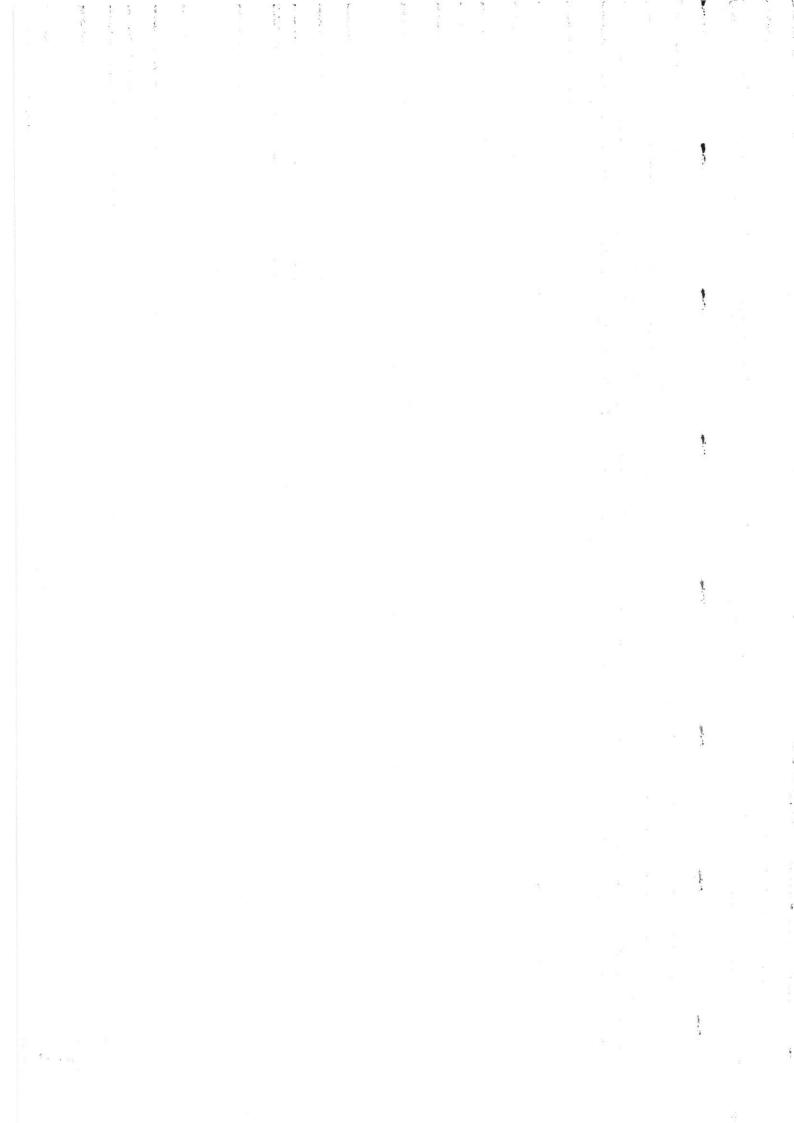
Fourteenth	3	Fungicidal antibiotics	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Various antibiotics produced from fungi	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
11. Course	e Evaluat	ion			
Daily, mont	thly and t	final exams as well as week	ly reports		
12. Learni	ing and T	eaching Resources			
Textbooks					
Main refere	ences				
Scientific re	esearch				
Scientific re	esources	within the Internet			

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Virus Course Description Form

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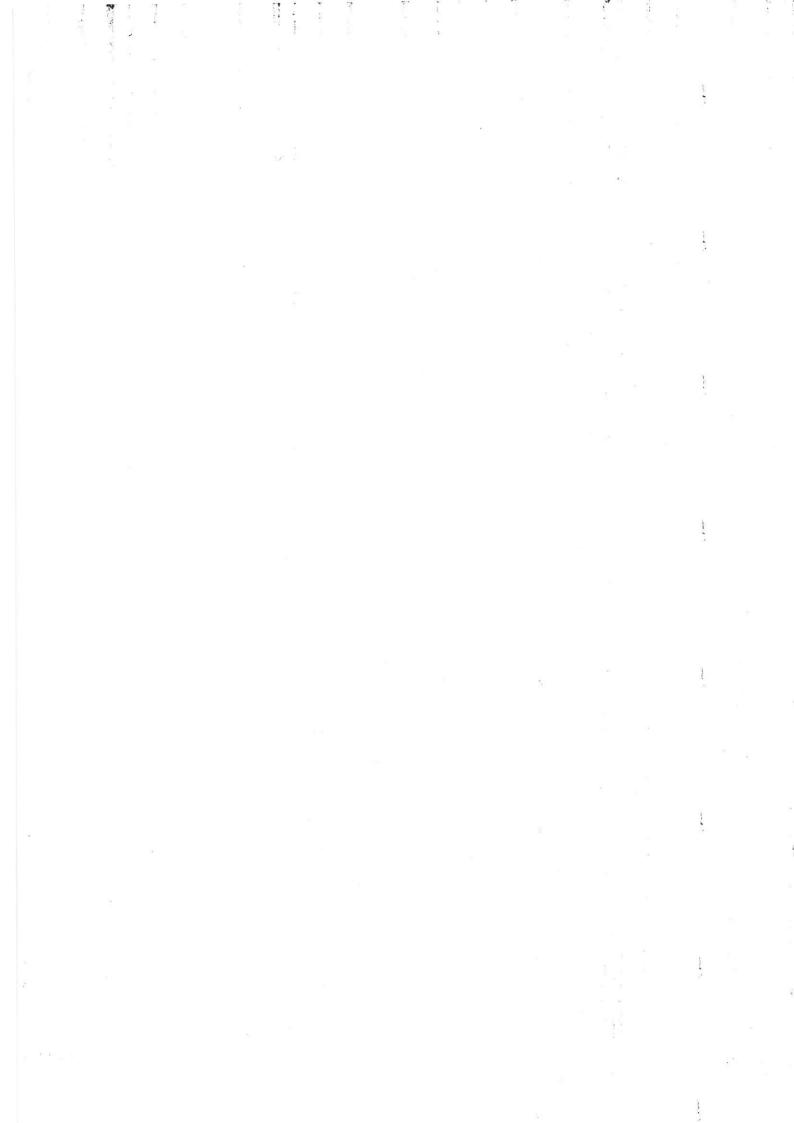
Viruses	Name					
the second second second						
2. Course	e Code					
MLT209						
3. Semes	ter / Leve	el				
I / II						
	ption prej	paration date				
26/1/2025						
and the second s		lance formats				
Attendanc						
	er of Cred	lit Hours (Total) / Number of Un	uits (Total)			
45/3						
7. Course		res			<u></u>	
Course O	bjectives	-		troduce the nature		
				nship with living		
			study their	r properties ,	medical and	
			economic importance.			
and the second se		earning Strategies				
• Ad	lequate ex	planation of the course				
• Da	ily Tests					
• Stu	ident grou	ıps				
• Fie	eld visits					
	G , , , ,					
9. Cour	se Structu	ire				
Week	Hours			Attandance		
		Subject	Learning method	Attendance Forms	Evaluation method	
		Subject	Explanation of		Evaluation method	
			Explanation of the lecture with		Evaluation method	
		Introduction, general	Explanation of the lecture with the presence of			
First	3		Explanation of the lecture with the presence of means of	Forms	Evaluation method Exams	
First	3	Introduction, general characteristics of the virus, its	Explanation of the lecture with the presence of means of illustration and	Forms Classroom and		
First	3	Introduction, general characteristics of the virus, its structure and classification	Explanation of the lecture with the presence of means of illustration and practical	Forms Classroom and		
First	3	Introduction, general characteristics of the virus, its structure and classification	Explanation of the lecture with the presence of means of illustration and practical application	Forms Classroom and		
First	3	Introduction, general characteristics of the virus, its structure and classification	Explanation of the lecture with the presence of means of illustration and practical application Explanation of	Forms Classroom and		
First	3	Introduction, general characteristics of the virus, its structure and classification	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with	Forms Classroom and		
First	3	Introduction, general characteristics of the virus, its structure and classification based on DND or RNA	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of	Forms Classroom and		
		Introduction, general characteristics of the virus, its structure and classification	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with	Forms Classroom and	Exams	
First Second	3	Introduction, general characteristics of the virus, its structure and classification based on DND or RNA	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of	Forms Classroom and laboratory Classroom and		
		Introduction, general characteristics of the virus, its structure and classification based on DND or RNA Mechanisms of isolation and	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical	Forms Classroom and laboratory	Exams	
		Introduction, general characteristics of the virus, its structure and classification based on DND or RNA Mechanisms of isolation and	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and	Forms Classroom and laboratory Classroom and	Exams	
		Introduction, general characteristics of the virus, its structure and classification based on DND or RNA Mechanisms of isolation and	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical	Forms Classroom and laboratory Classroom and	Exams	

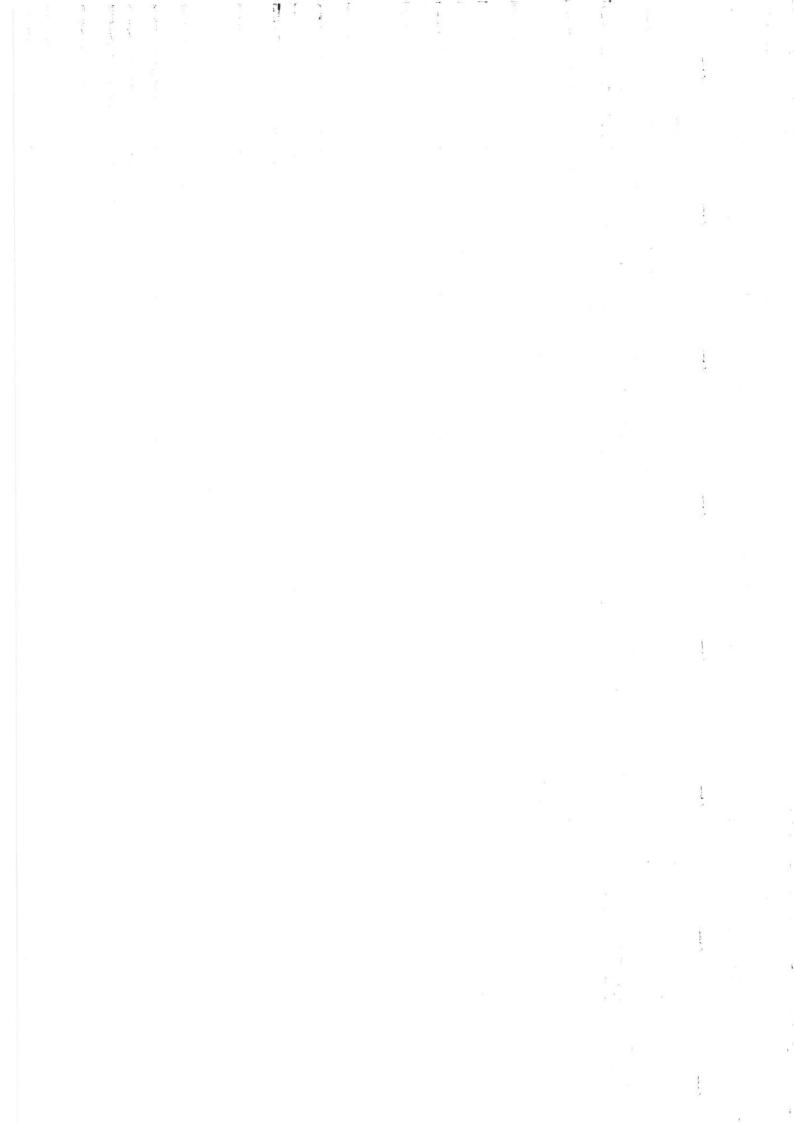


Third	3	Chemotherapy, antivirals and vaccines	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourth	3	Tools, equipment and devices used in the virology laboratory	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	Different DNA isolation and replication mechanisms of viruses	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Various immunological tests to diagnose viruses	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Paramexo and rubella viruses	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Enteroviruses, group of rhinoviruses.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Hepatitis viruses	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams



Tenth	3	Carcinogenic viruses	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Adenviruses, smallpox and parvoviruses	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	Arthroviruses and hemorrhagic viruses	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Immunodeficiency viruses	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	3	Neuroviruses	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Virus inheritance	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
	e Evalu				
		final exams as well as weekly r	eports		
11. Learn Textbooks	ing and	Teaching Resources			
Textbooks					
Main refer	ences				
Main refer					



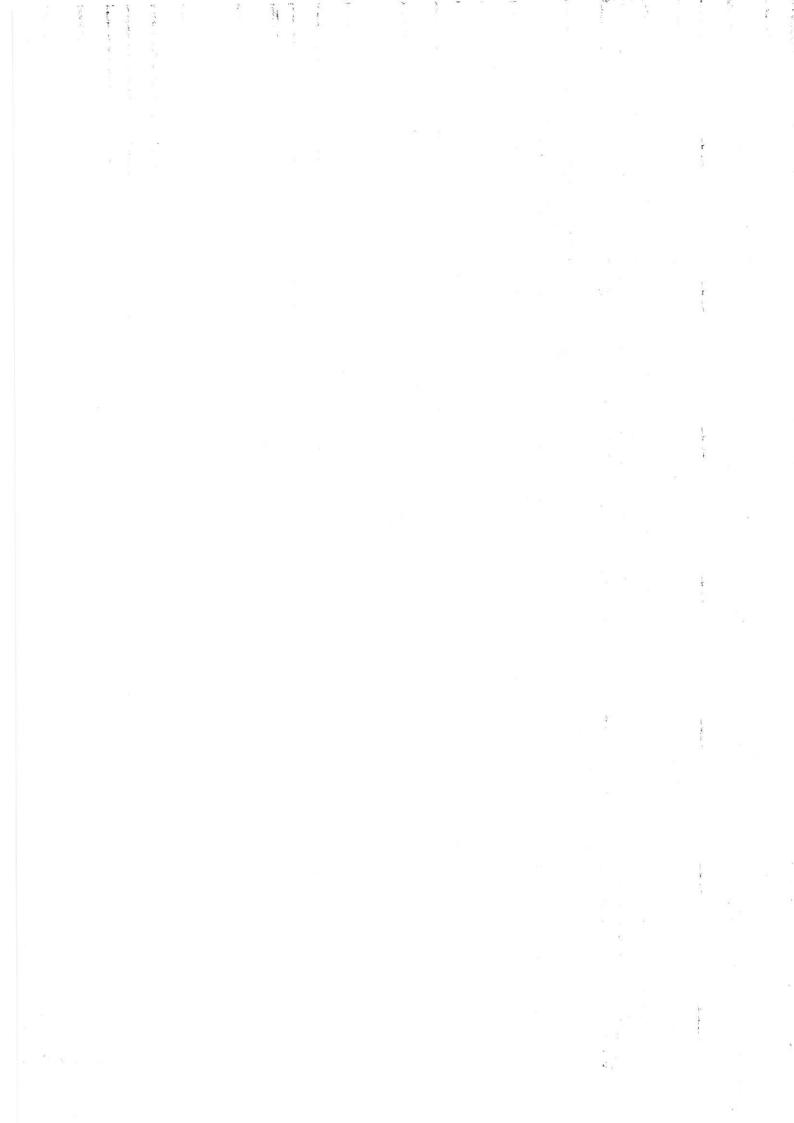


Analytical Chemistry Course Description Form

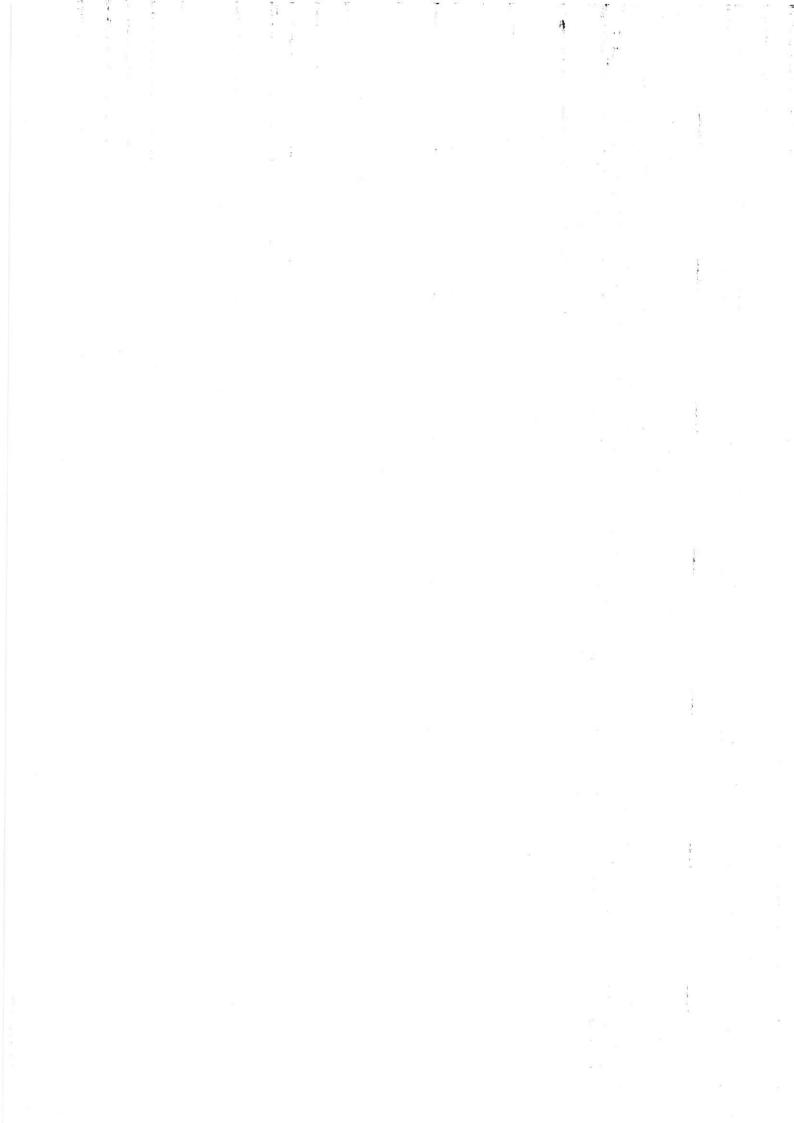
1. Course Analytical (
		·			
2. Course	and the second se				
MLT115					
	er / Level				
First /First					
4. Descrip	tion prepa	aration date			
26/1/2025			1		
5. Availab	le attenda	nce formats			
Attendance	on a wee	kly basis			
6. Number	r of Credi	t Hours (Total) / Number	of Units (Total)		
45/3					
7. Course	administr	ator name			
8. Course	Objective	S			
Course Ob			• Give a general i	dea of organic ar	d biochemical
	•		compounds, wh	nich increases	the student's
			knowledge and al	bility to conduct ex	periments and
			various chemical	•	1
			various enemieur		
9. Teachin	g and Lea	rning Strategies			
		lanation of the course			
	ly Tests				
	dent grou				
		15			
• 1101	d wighte	DS			
	d visits	DS			
10. Cours	d visits				
10. Cours Week			Learning method	Attendance	Evaluation method
	e Structur	e Subject	Learning method	Attendance Forms	Evaluation method
	e Structur	e Subject atoms, elements,			Evaluation method
	e Structur	e Subject atoms, elements, contamination of	Explanation of the	Forms	Evaluation method
Week	e Structur Hours	e Subject atoms, elements, contamination of radioactive isomers	Explanation of the lecture with the	Forms Classroom and	Evaluation method Exams
	e Structur	e Subject atoms, elements, contamination of radioactive isomers with radioactive	Explanation of the lecture with the presence of means of	Forms	
Week	e Structur Hours	e Subject atoms, elements, contamination of radioactive isomers with radioactive isomers,	Explanation of the lecture with the presence of means of illustration and	Forms Classroom and	
Week	e Structur Hours	e Subject atoms, elements, contamination of radioactive isomers with radioactive isomers, contamination with	Explanation of the lecture with the presence of means of	Forms Classroom and	
Week	e Structur Hours	e Subject atoms, elements, contamination of radioactive isomers with radioactive isomers, contamination with elements.	Explanation of the lecture with the presence of means of illustration and practical application	Forms Classroom and	
Week	e Structur Hours	e Subject atoms, elements, contamination of radioactive isomers with radioactive isomers, contamination with elements. The relationship	Explanation of the lecture with the presence of means of illustration and	Forms Classroom and laboratory	
Week	e Structur Hours	e Subject atoms, elements, contamination of radioactive isomers with radioactive isomers, contamination with elements. The relationship between atoms,	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the	Forms Classroom and laboratory Classroom and	
Week First	e Structur Hours 3	e Subject atoms, elements, contamination of radioactive isomers with radioactive isomers, contamination with elements. The relationship between atoms, molecules and energy,	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the	Forms Classroom and laboratory Classroom and	Exams
Week	e Structur Hours	e Subject atoms, elements, contamination of radioactive isomers with radioactive isomers, contamination with elements. The relationship between atoms, molecules and energy, according to the	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and	Forms Classroom and laboratory Classroom and	
Week First	e Structur Hours 3	e Subject atoms, elements, contamination of radioactive isomers with radioactive isomers, contamination with elements. The relationship between atoms, molecules and energy, according to the theory of the new	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of	Forms Classroom and laboratory Classroom and	Exams
Week First	e Structur Hours 3	e Subject atoms, elements, contamination of radioactive isomers with radioactive isomers, contamination with elements. The relationship between atoms, molecules and energy, according to the	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and	Forms Classroom and laboratory Classroom and	Exams



Third	3	Chemical bonds, covalent, isonic, coordination, hydrogen	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourth	3	Analysis methods. Qualitative, quantitative and statistical methods of quantitative analysis, errors in quantitative analysis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	Methods of expressing the concentration of solution, mollein solution, natural solution	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Preparation of the mullein solution, dilution, questions	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Percentage and ppm composition	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Chemical balance, ionization, water constant (PH and POH)	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Ionization of weak electrolytes. Calculate the pH of weak acids and weak bases.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Neutral solutions and classification	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Calculation of neutral solutions	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams



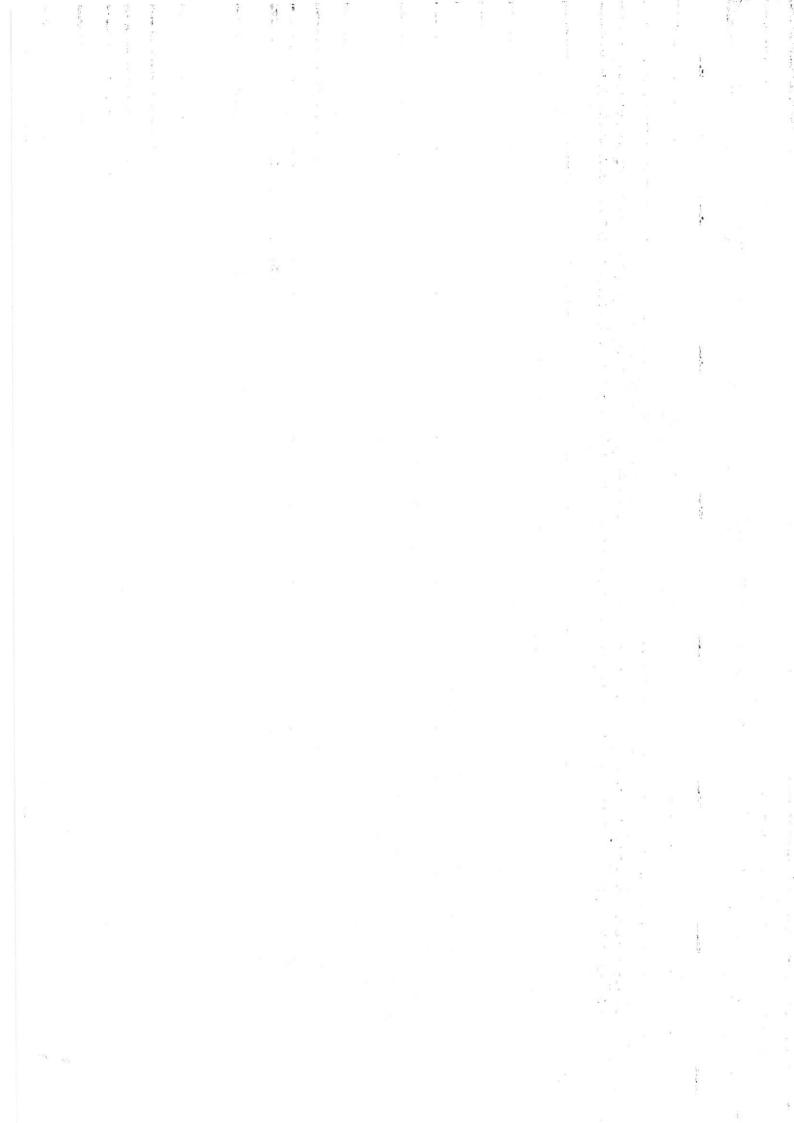
Twelfth	3	Volumetric analysis, classification, standard solution, examples.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Neutralization, oxidation, and reduction reactions	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	3	Reagent theory, interaction, properties, examples.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Principles of colorimetry	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
	e Evalua				
		final exams as well as we	eekly reports		
	ing and T	Feaching Resources			
Textbooks					
Main refere					
Scientific r		· · · · · · · · · · · · · · · · · · ·			
Scientific r	resources	within the Internet			



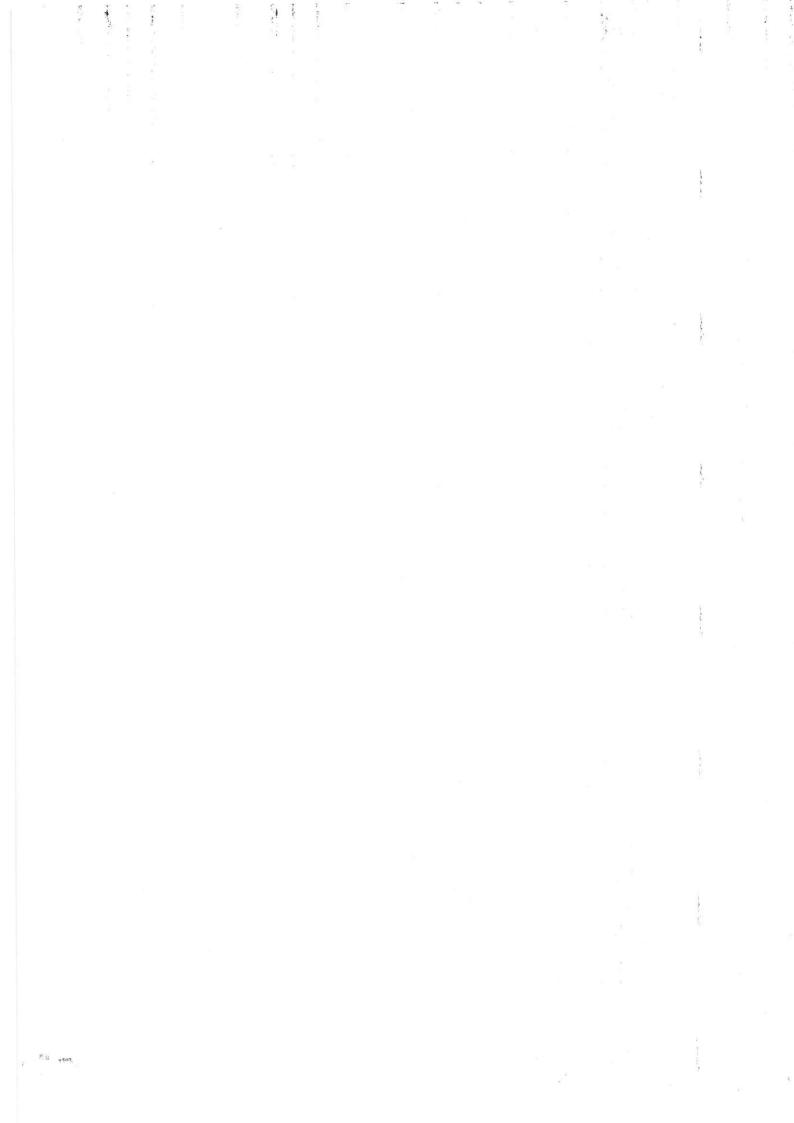
Clinical Chemistry Course Description Form

1.0	
1. Course Name	
Clinical Chemistry	
2. Course Code	
MLT211	
3. Semester / Level	
4. Description preparation date	
26/1/2025	
5. Available attendance formats	
Attendance on a weekly basis	
6. Number of Credit Hours (Total) / Number	of Units (Total)
45/3	
7. Course administrator name	
Assoc. Prof. Dr. Maha Al-Taif Jassim	
8. Course Objectives	
Course Objectives	• Providing biochemical surveys to help diagnose the
	disease condition that facilitates reaching the
	ultimate goal of treating and managing the patient,
	and these tests help in the study of disease
	prognosis and follow-up of patients in addition to
	conducting a survey of diseases in communities.
9. Teaching and Learning Strategies	
 Adequate explanation of the course 	
Daily Tests	
Student groups	
• Field visits	

10. Cours	e Structur	re			
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	3	Methods for determining protein levels	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Second	3	Fats, types of fats and their functions.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Third	3	Digestion and absorption of fats.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams



Fourth	3	Lipid metabolism, conditions associated with abnormal levels.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	Cholesterol, triglycerides, free fatty acids.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Lipoproteins and their types and diseases associated with abnormal levels.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Ketone bodies	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Enzymes and their importance within the body	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Properties and classification of enzymes	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Factors affecting enzyme activity.	Explanation of the lecture with the presence of means of illustration and practical application		Exams
Eleventh	3	Change in enzyme activity and associated diseases	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	Liver function and tests	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Hormones, their types, properties and function.	Explanation of the lecture with the presence of means of illustration and practical application	laboratory	Exams



Fourteenth	3	The mechanism of action of hormones and diseases associated with abnormal levels	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Cauterization functions, tests and diseases associated with abnormal levels	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
11. Course	e Evaluat	ion			
Daily, mont	hly and f	inal exams as well as we	ekly reports		
12. Learnin	ng and T	eaching Resources			
Textbooks					
Main referen					
Scientific re	search				
Scientific re	sources	within the Internet			



Organic Chemistry Course Description Form

1. Course Organic Cl	Name				
2. Course					
MLT119	Coue				
3. Semest	er/Laval				
Second /Fi					
		aration date			
26/1/2025	Juon prep	aration date			
	ale attend	ance formats			
Attendance	and the second				
the second s	the second s	t Hours (Total) / Numbe	n of I Inita (Total)		
45/3	a of clear	t nours (Total) / Numbe	r of Units (Total)		
	administ	ator name			
7. Course	aummisu	ator name			
8. Course	Objective				
Course Ob		20	Cina a second	idaa of anati	ad hissham's 1
Course Of	Jecuves			idea of organic a	
			•	hich increases	
				bility to conduct e	experiments and
			various chemical	reactions	
0 T	1.7	· · · ·			
		rning Strategies			
		planation of the course			
	ly Tests				
	-)				
• Stu	dent grouj	os			
		os			
• Fiel	dent group ld visits				
• Fiel	dent group				
• Fiel	dent group ld visits		Learning method	Attendance Forms	Evaluation method
• Fiel	dent grouj d visits e Structur	e Subject			Evaluation method
• Fiel	dent grouj d visits e Structur	re Subject Introduction to	Learning method Explanation of the lecture with the	Forms	Evaluation method
• Fiel 10. Cours Week	dent grouj d visits e Structur	re Subject Introduction to Organic Chemistry	Explanation of the	Forms Classroom and	Evaluation method Exams
• Fiel 10. Cours Week	dent grouj ld visits e Structur Hours	The Subject Subject Introduction to Organic Chemistry Organic compounds	Explanation of the lecture with the	Forms	
• Fiel 10. Cours Week	dent grouj ld visits e Structur Hours	re Subject Introduction to Organic Chemistry	Explanation of the lecture with the presence of means of	Forms Classroom and	
• Fiel 10. Cours Week	dent grouj ld visits e Structur Hours	The Subject Subject Introduction to Organic Chemistry Organic compounds	Explanation of the lecture with the presence of means of illustration and	Forms Classroom and	
• Fiel 10. Cours Week	dent grouj ld visits e Structur Hours	The Subject Subject Introduction to Organic Chemistry Organic compounds	Explanation of the lecture with the presence of means of illustration and practical application	Forms Classroom and laboratory	Exams
• Fiel 10. Cours Week First	dent grouj ld visits e Structur Hours	re Subject Introduction to Organic Chemistry Organic compounds found in nature Contamination with	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the	Forms Classroom and laboratory Classroom and	
• Fiel 10. Cours Week First	dent group devisits e Structur Hours 3	re Subject Introduction to Organic Chemistry Organic compounds found in nature	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the	Forms Classroom and laboratory Classroom and	Exams
• Fiel 10. Cours Week First	dent group devisits e Structur Hours 3	re Subject Introduction to Organic Chemistry Organic compounds found in nature Contamination with	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of	Forms Classroom and laboratory Classroom and	Exams
• Fiel 10. Cours Week First	dent group devisits e Structur Hours 3	re Subject Introduction to Organic Chemistry Organic compounds found in nature Contamination with	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and	Forms Classroom and laboratory Classroom and	Exams
• Fiel 10. Cours Week First	dent group devisits e Structur Hours 3	re Subject Introduction to Organic Chemistry Organic compounds found in nature Contamination with organic compounds	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application	Forms Classroom and laboratory Classroom and laboratory	Exams
• Fiel 10. Cours Week First	dent group devisits e Structur Hours 3	re Subject Introduction to Organic Chemistry Organic compounds found in nature Contamination with organic compounds Hydrocarbons,	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the	Forms Classroom and laboratory Classroom and laboratory Classroom and Classroom and	Exams
• Fiel	dent group devisits e Structur Hours 3	re Subject Introduction to Organic Chemistry Organic compounds found in nature Contamination with organic compounds Hydrocarbons, classification,	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the	Forms Classroom and laboratory Classroom and laboratory Classroom and Classroom and	Exams
Fiel 10. Cours Week First Second	dent group de visits e Structur Hours 3 3	re Subject Introduction to Organic Chemistry Organic compounds found in nature Contamination with organic compounds Hydrocarbons, classification, alkanes, alkenes,	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of	Forms Classroom and laboratory Classroom and laboratory Classroom and Classroom and	Exams
• Fiel <u>10. Cours</u> Week First Second	dent group de visits e Structur Hours 3 3	re Subject Introduction to Organic Chemistry Organic compounds found in nature Contamination with organic compounds Hydrocarbons, classification, alkanes, alkenes, alkynes, benzene	Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and practical application Explanation of the lecture with the presence of means of illustration and	Forms Classroom and laboratory Classroom and laboratory Classroom and Classroom and	Exams

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Fourth	3	Alcohols, classification and properties	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	Aldehydes, preparation, classification, properties	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Ketones, classification, properties, preparation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Ketone preparation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Carboxylic acids, classification, properties	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Classification of carboxylic acids	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Classification of carboxylic acids	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Properties of carboxylic acids	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	Physical properties of organic compounds	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Separation of organic compounds	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams



Fourteenth	3	Purification of organic compounds. Filtration and extraction	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Melting points and boiling points	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

11. Course Evaluation	
Daily, monthly and final exams as well as weekly reports	
12. Learning and Teaching Resources	
Textbooks	
Main references	
Scientific research	
Scientific resources within the Internet	

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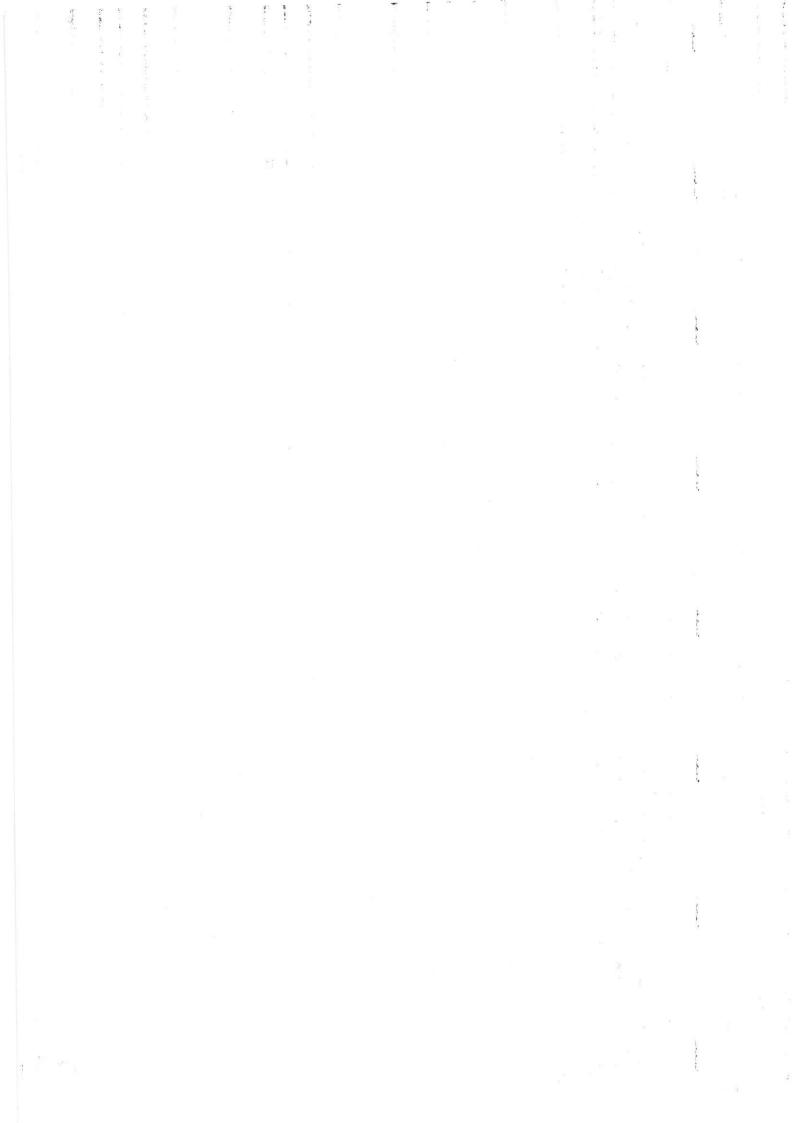
Medical Terminology Course Description Form

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- Student groups
- Field visits

10. Course Structure

Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	3	Introduction to Medical Terminology	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Second	3	Root	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams



		1			
Third	3	Prefix	Explanation of the lecture with the presence of means of illustration and practical application	laboratory	Exams
Fourth	3	Subsequent	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	Mobile Splicing Rules	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Connecting forms	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Medical terminology and pathology	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Terminology of the heart, circulation and nervous system	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Gastrointestinal and urinary terminology	Explanation of the	Classroom and laboratory	Exams
Tenth	3	Lymphatic system terminology	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Respiratory terminology	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	Teeth and maxillofacial	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

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Thirteenth	3	Terms of conditions and trends	Explanation of the lecture with the presence of means of illustration and practical application		Exams
Fourteenth	3	Musculoskeletal terminology	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Terminology of the skeletal system	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

11. Course Evaluation	
Daily, monthly and final exams as well as weekly reports	
12. Learning and Teaching Resources	
Textbooks	
Main references	
Scientific research	
Scientific resources within the Internet	



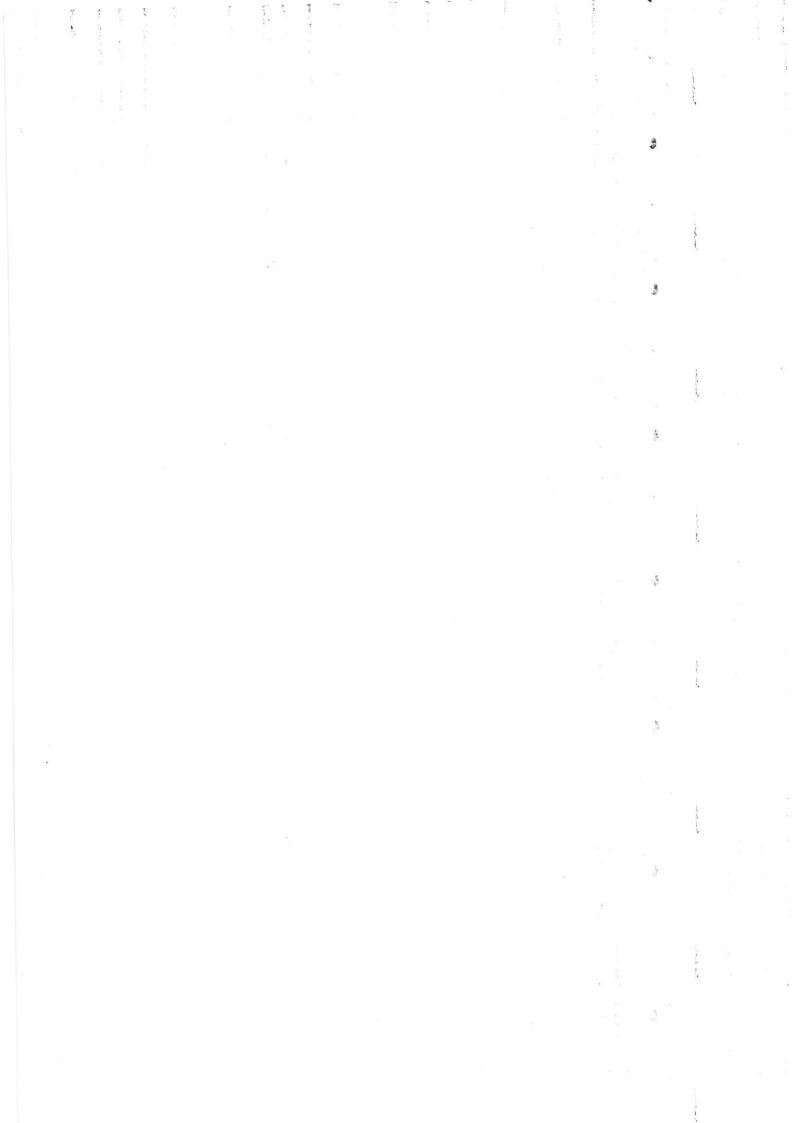
Course Description Form Introduction to Hematology

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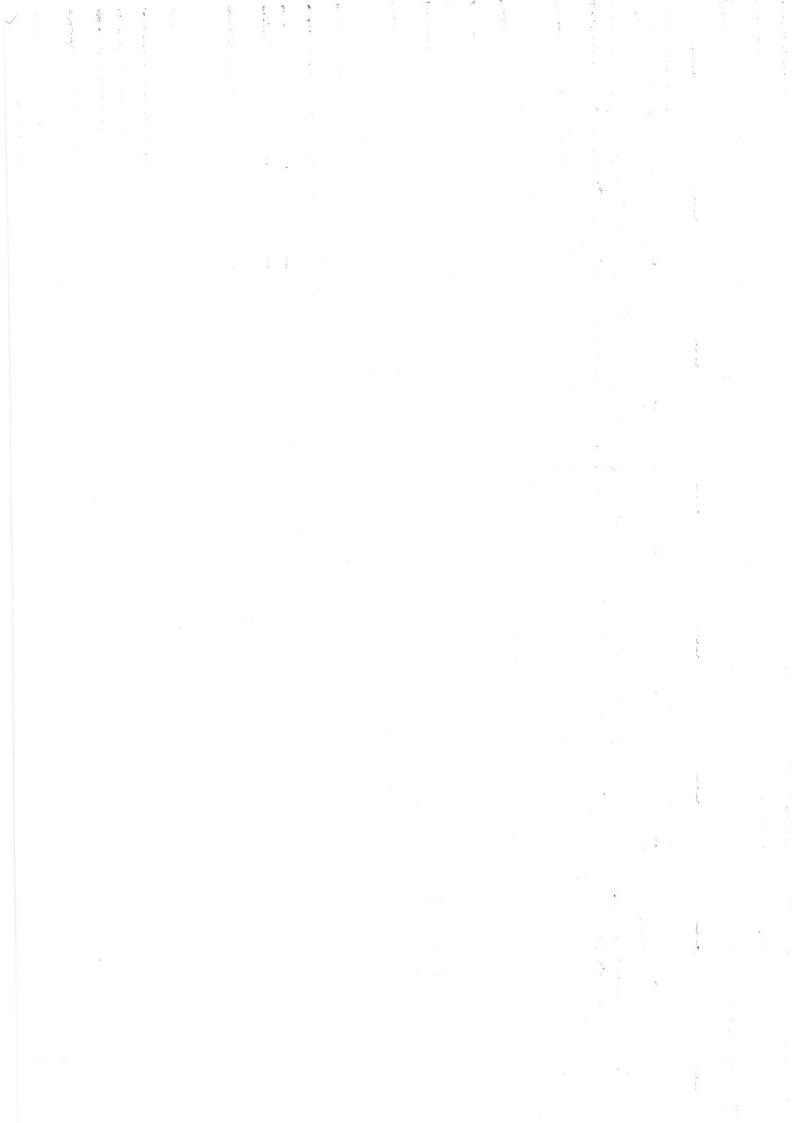
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		Course Descriptio	in Form muoduction	to Hematolog	gy
1. Course	Name				
Introductio	on to Hem	atology			
2. Course					
MLT205	42				
3. Semest	ter / Leve	:1			
First / Seco	ond				
4. Descrip	ption prep	paration date			
26/1/2025	ş.				
5. Availal	ble attend	ance formats			
Attendance	e on a wee	ekly basis			
6. Numbe	er of Cred	it Hours (Total) / Numbe	r of Units (Total)		
45/3					
7. Course	Objective	es			
Course Ol	bjectives		 Identify the comp 	onents of blood an	nd the problems
6			caused by their in	nbalances within th	he body and the
				sts used to diagnos	
	<i>k</i> .		I	8	
8. Teachin	ng and Lea	arning Strategies			
• Add	equate exp	planation of the course			
• Dai	ily Tests				
• Stu	dent grou	ps			
• Fiel	ld visits				
9. Cours	se Structur	re			
Week	Hours	Subject	Learning method	Attendance	Evaluation method
	-			Forms	
		Introduction to the	Explanation of the lecture with the		
First	3	types of blood	presence of means of	Classroom and	Exams
riist	5	diseases	illustration and	laboratory	
		uiseases	practical application		
	1		Explanation of the	Classroom and	
		44	lecture with the	laboratory	
Second	3	Blood components	presence of means of		Exams
			illustration and		
	1				
			practical application		
			practical application Explanation of the	Classroom and	
		The process of blood		Classroom and laboratory	Exams

Third	3	The process of blood formation in the body in children and adults		Classroom and laboratory	Exams
Fourth	3	Leukemia (Polycethemia): clinical signs and diagnostic methods	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams



fifth	3	Forms of red blood cells in the normal and abnormal state and methods of examination	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Definition of hemoglobin Hb and the different ways to determine its levels	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Definition of the volume of compressed blood cells PCV and the different methods for determining their levels	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Definition of ESR and different methods for determining ESR levels	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Anemia: clinical signs, types and diagnosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Sickle cell anemia: causes, clinical signs and diagnosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Aplastic anemia: causes, clinical signs and diagnosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	Bacterial blood diseases and methods of diagnosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Viral blood diseases and methods of diagnosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams



Fourteenth	3	Parasitic blood diseases and methods of diagnosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Definition of white blood cells and the different ways to detect their levels	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
10. Course					
		final exams as well as we	ekly reports		
11. Learni	ng and T	eaching Resources			
Textbooks					
Main referen	nces				
Scientific re	esearch				
Scientific re	sources	within the Internet			



Blood Transfusion Course Description Form

1. Course Name								
Blood transfusion								
2. Course Code								
MLT116								
3. Semester / Level								
First /First								
	otion prep	aration date						
26/1/2025								
5. Available attendance formats								
Attendance on a weekly basis 6. Number of Credit Hours (Total) / Number of Units (Total)								
45/3	i or crea	it flours (fotal) / fvalloe	r or Omis (Total)					
7. Course	administ	rator name						
8. Course	Objective	es						
Course Ob	jectives		• Identify the characteristics , sections and					
			importance of b	lood bank and he	ow to perform			
			blood transfusions					
		arning Strategies						
		planation of the course						
	ly Tests							
	dent grou	ps						
• Fiel	d visits							
10. Course Structure								
	Attendance							
Week	Hours	Subject	Learning method	Forms	Evaluation method			
			Explanation of the					
		Introduction to Blood	lecture with the	Classroom and	E			
First	3	Transfusions	presence of means of	laboratory	Exams			
			illustration and					
		Dlagd common on to	practical application	Classes and				
		Blood components,	Explanation of the lecture with the	Classroom and laboratory				
		blood collection,	presence of means of	laboratory				
		donor selection						
C 1	2	donor selection,			Frame			
Second	3	physiological	illustration and		Exams			
Second	3	physiological examination and			Exams			
Second	3	physiological	illustration and		Exams			
Second	3	physiological examination and	illustration and practical application	Classroom and	Exams			
Second	3	physiological examination and collection time.	illustration and practical application Explanation of the	Classroom and	Exams			
	i.	physiological examination and collection time. Blood type, ABO	illustration and practical application Explanation of the lecture with the	Classroom and laboratory	Exams			
Second	3	physiological examination and collection time.	illustration and practical application Explanation of the					

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Fourth	3	Blood type classification (long and short)	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	Direct and indirect comb blood test	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	The process of cross- matching testing and reporting and recording of results.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	The importance of blood transfusion and its relationship to blood diseases	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Care of pregnant women and leukemia in infants	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Division of blood, methods of use and division.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Blood components after storage and anticoagulants	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Disadvantages of blood transfusion	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	Anticoagulants, their types, properties, methods of preparation and storage	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams



Thirteenth	3	Education of test samples and methods of recording the history of medical conditions	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	3	Quality control, tools, people, and method	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Blood transfusion tools and fluid administration.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
	Evaluati				
Daily, mont	hly and fi	nal exams as well as wee	kly reports		
12. Learnin Textbooks	ng and Te	eaching Resources			
Main referen	1005				
Scientific rea					
		vithin the Internet			

