

# Academic Program Description Form

University Name: Tikrit.....

Faculty/Institute: College of Medicine.....

Scientific Department: Medical Microbiology.....

Academic or Professional Program Name: .....

Final Certificate Name: MBCHB.....

Academic System: Annual.....

Description Preparation Date:

File Completion Date: 1/3/2024

Signature:

Head of Department Name:

Prof. Dr. Rafal Khaleel

Farhan

Date:

9/2/2025

Signature:

Scientific Associate Name:

Assistant Prof. Dr. Hashim Abd

Al Sattar

Date:

9/2/2025

The file is checked by:

عذراء كامال حسين العبيدي

مسؤول تنمية ضمان الجودة

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:



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Approval of the Dean

**Ministry of Higher Education and Scientific Research  
Scientific Supervision and Scientific Evaluation Apparatus  
Directorate of Quality Assurance and Academic Accreditation  
Department**



# **Academic Program and Course Description Guide**

2024

## **Introduction:**

The educational program is a well—planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staP together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quaJerly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

## **Concepts and terminology:**

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

**Learning Outcomes:** A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra—curricular activities to achieve the learning outcomes of the program.

### 1. Program Vision

The program vision includes the gain by students the basic sufficient knowledge regarding diagnosis and treatment of infectious diseases caused by various microbes including bacteria, viruses, fungi, and parasites. The treatment includes ways of prevention and control.

### 2. Program Mission

Via theoretical lectures and practical laboratory learning, students will learn about microbial taxonomy, microbial cell structure, their virulence factors, then the process of diagnosis depending on signs and symptoms.

### 3. Program Objectives

Learning students about infectious diseases which can be transmitted in the community, ways of diagnosis and treatment.

### 4. Program Accreditation

Work in progress to gain accreditation

### 5. Other external influences

Nil

### 6 Program Structure

Program Structure	Number of Courses: First, second, and third stages	Credit hours	Percentage	Reviews•
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Institution Requirements				
			College Requirements	Basic requirements

Department Requirements				
Summer Training	Nil			
Other				

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

7. Program Description				
Year/Level	Course Code	Course Name	Credit Hours(weekly)	
			theoretical	Practical
1		General Microbiology for 15 weeks	1	
1		Human Genetics for 24 weeks	1	
2		Bacteriology for 8 weeks	1	1
2		Immunology for 8 weeks	1	1
2		Virology for 4 weeks	1	1
2		Mycology for 4 weeks	1	1
3		Bacteriology for 8 weeks	1	1
3		Virology for 8 weeks	1	1
3		Mycology for 8 weeks	1	1
3		Parasitology for 24 weeks	1	1



<b>8- Learning outcomes:</b>						
<b>Knowledge: of microbial cell structure, virulence factors and other mechanisms of pathogenesis.</b>						
<b>Skills: acquiring the skill of diagnosing infectious diseases, treatment, and ways of prevention and control.</b>						
<b>9-Teaching and learning strategies: Theoretical lectures, practical laboratory learning, and seminars.</b>						
10- Ways of assessment: quizzes, monthly and final exams theory and practical.						
<b>11- Faculty</b>						
Academic Rank		Specialization		Special Requirements/Skills (if applicable)	Number of the teaching staff	
		General	Special		Staff	Lecturer
Professor Assistant professor Lecturer Assistant lecturer		MBCHB BSC. BVM.	PHD. MSC. In Medical Microbiology			Staff

**12. Acceptance Criterion**

(Setting regulations related to enrollment in the college or institute, whether central admission or others): Central Admission

<b>Professional Development</b>
<b>Mentoring new faculty members</b>
Briefly describes the process used to mentor new, visiting, full—time, and part—time faculty at the institution and department level.
<b>Professional development of faculty members</b>



14. Program Development Plan

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
First	Microbiology		All are Basic				*				*				
	Human Genetics						*				*				
Second	Bacteriology						*				*				
	Immunology						*				*				
	Virology						*				*				
	Mycology						*				*				
Third	Bacteriology						*				*				
	Virology						*				*				
	Mycology						*				*				
	Parasitology						*				*				

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



## Course Description Form

<b>1. Course Name:</b>					
Microbiology for the first year					
<b>2. Course Code:</b>					
Theoretical & Practical					
<b>3. Semester / Year:</b>					
Second / 2024					
<b>4. Description Preparation Date:</b>					
31/ 01/ 2024					
<b>5. Available Attendance Forms:</b>					
Attendance only					
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>					
60 / 4					
<b>7. Course administrator's name (mention all, if more than one name)</b>					
Name: Marwa Tariq Ahmed Email: <a href="mailto:marwa.tareq@tu.edu.iq">marwa.tareq@tu.edu.iq</a>					
<b>8. Course Objectives</b>					
<b>Course Objectives</b>		<ul style="list-style-type: none"> <li>• <b>The curriculum includes the study of the basics of Medical Microbiology</b></li> <li>• <b>Identify modern sterilization methods and laboratory diagnostic methods</b></li> </ul>			
<b>9. Teaching and Learning Strategies</b>					
<b>Strategy</b>		<ol style="list-style-type: none"> <li>1- Education strategy collaborative concept planning.</li> <li>2- Brainstorming education strategy.</li> <li>3- Education Strategy Notes Series</li> </ol>			
<b>10. Course Structure</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
			Microbiology	1. Explanation of the scientific material through model lectures 2. Use	Weekly, monthly, daily and written exams



				illustrative tools such as light microscopes, data show, smart board and plasma screens.	and annual research and the end-of-year exam.
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### 11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc would be as follows: 20 degrees monthly and daily exams for the first semester. 20 degrees monthly and daily exams for the second semester. 60 marks for final exams

### 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Jawetz, Melnick, & Adelberg's Medical Microbiology Bailey and Scott's Diagnostic Microbiology
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

## Course Description Form

13. Course Name:
1 <sup>st</sup> class Virology -practical & theoretical
14. Course Code:
Theoretical & Practical
15. Semester / Year:
First & Second/ 2024

16. Description Preparation Date:					
31/ 01/ 2025					
17. Available Attendance Forms:					
Attendance only					
18. Number of Credit Hours (Total) / Number of Units (Total)					
60 / 4					
19. Course administrator's name (mention all, if more than one name)					
Name: Dheya Saleh Mehdi Email: <a href="mailto:Dheyaa.saleh@tu.edu.iq">Dheyaa.saleh@tu.edu.iq</a>					
20. Course Objectives					
Course Objectives		<ul style="list-style-type: none"> <li>• The curriculum includes the study of the basics of medical Virology</li> <li>• Identify modern sterilization methods and laboratory diagnostic methods</li> </ul>			
21. Teaching and Learning Strategies					
Strategy		<ol style="list-style-type: none"> <li>1- Education strategy collaborative concept planning.</li> <li>2- Brainstorming education strategy.</li> <li>3- Education Strategy Notes Series</li> </ol>			
22. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			Virus	<ol style="list-style-type: none"> <li>1. Explanation of the scientific material through model lectures</li> <li>2. Use illustrative tools such as light microscopes, data show, smart board and plasma screens.</li> </ol>	Weekly, monthly, daily and written exams and annual research and the end-of-year exam.
23. Course Evaluation					

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports ... etc would be as follows: 20 degrees monthly and daily exams for the first semester. 20 degrees monthly and daily exams for the second semester. 60 marks for final exams

#### 24. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Jawetz, Melnick, & Adelberg's Medical Microbiology KUBBY
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

## COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the program specification.

1. Teaching Institution	Tikrit University/College of Medicine
2. University Department/Centre	Microbiology

3. Course title/code	Human genetics
4. Modes of Attendance offered	In-person attendance
5. Semester/Year	Year
6. Number of hours tuition (total)	24
7. Date of production/revision of this specification	8/2024
8. Aims of the Course	
<ol style="list-style-type: none"> <li>1. Gain a comprehensive understanding of the fundamental principles of human genetics.</li> <li>2. Comprehend the structure of genes and chromosomes and their functions.</li> <li>3. Study the mechanisms of genetic trait transmission and inheritance processes.</li> <li>4. Understand the processes of DNA replication, transcription, genetic coding, and protein production.</li> <li>5. Delve into the knowledge of the inheritance of dominant and recessive genetic diseases.</li> <li>6. Develop the ability to work with genetic engineering techniques and their applications in treatment.</li> <li>7. Acquire a foundational understanding of genetic counseling and the importance of early diagnosis of genetic diseases.</li> <li>8. Learn about the characteristics of stem cells and how they can be utilized in genetic and therapeutic aspects.</li> </ol>	

9. Learning Outcomes, Teaching, Learning and Assessment Methods

## A- Cognitive goals .

- Familiarize students with the basic scientific concepts of the structure and biological function of DNA, including methods of transmission and inheritance of genetic traits.
- Understand the foundations of molecular genetics and grasp the principles of its practical applications.
- Introduce students to genetic medical terminology and how to accurately formulate it.
- Review genetic diseases, their recurrence rates, inheritance mechanisms, and identify areas of genetic abnormalities responsible for them.
- Present the fundamental principles of genetics and genetic diseases.
- Introduce students to stem cells and the key principles related to them.

## B. The skills goals special to the course.

- Train students in extracting, purifying, and amplifying DNA in the laboratory.
- Enable students to differentiate between genetic and non-genetic diseases.
- Develop effective communication skills with patients, families, and colleagues.
- Enhance the use of information technology in genetic and professional fields.
- Encourage teamwork within a multidisciplinary team.
- Develop skills in debate and negotiation.
- Support the ability for self-learning and promote the concept of continuous education.
- Motivate students to participate in scientific research through collaboration with specialized research teams.

## Teaching and Learning Methods

1. **Theoretical Lectures:** Presentation of basic information and concepts in genetics through detailed lectures delivered by the instructor, focusing on providing an in-depth explanation of key topics such as DNA structure, genes, heredity, and genetic diseases.
2. **Small Group Discussions:** Enhance interaction and intellectual exchange among students by working in small groups to discuss complex topics, analyze case studies, and solve practical problems, which deepens their understanding of the material and stimulates critical thinking.
3. **Practical Laboratories:** Application of theories and concepts learned in a laboratory environment to conduct scientific experiments, purify DNA, analyze genes, and use genetic engineering tools. These sessions help students acquire the practical skills necessary for work in the fields of molecular biology and medical genetics.

## Assessment methods

1. Monthly Theoretical Exams: 45%
2. Attendance and Participation: 5%
3. Final Theoretical Exams: 50%

## A. Affective and value goals

- **Demonstrating Appropriate Communication Skills with Patients, Families, and Colleagues:** Develop students' ability to communicate effectively and empathetically, with an emphasis on the importance of presenting information clearly and accurately to ensure understanding by all parties.
- **Utilizing Information Technology in Genetic and Professional Fields:** Encourage students to use and integrate the latest information technologies in scientific research and practical application, to

improve the quality of diagnosis and treatment.

- **Working within and as Part of a Multidisciplinary Team:** Develop teamwork and collaboration skills among specialists from various disciplines to enhance therapeutic and research outcomes.
- **Debate and Negotiation Skills:** Stimulate students to develop their ability to engage in constructive debates and skillfully negotiate, especially in situations involving scientific or ethical disagreements.
- **Self-Learning Ability and Ensuring Lifelong Learning Capacity:** Encourage students to initiate independent learning and continually develop their educational skills, ensuring ongoing academic and professional achievement.
- **Research Skills through Teamwork:** Enhance students' research capabilities by participating in research projects under the supervision of specialized scientific teams, to bolster their skills in scientific analysis and precise documentation.

D. General and rehabilitative transferred skills (other skills relevant to employability and personal development)

1. Demonstrate appropriate communication skills with patients, families, and colleagues.
2. Utilize information technology in genetic and professional fields.
3. Work within and as part of a multidisciplinary team.
4. Debate and negotiation skills.
5. Ability for self-learning and ensuring lifelong learning capacity.
6. Research skills through collaboration with a specialized research team.

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	4 hours	Scientific Knowledge and Understanding	<ul style="list-style-type: none"> <li>• <b>Advances in Genetic Sciences</b></li> <li>• <b>Contemporary Genetic Technologies and Applications</b></li> <li>• <b>Ethics and Innovation in Genetics</b></li> <li>• <b>Practical Genetic Research Methods</b></li> <li>• <b>Genetics in the Modern Era: Applications and Ethics</b></li> <li>• <b>Integrative Genetics: From Laboratory to Clinical Practice</b></li> </ul>	Lectures  Interactive Discussions Small Group  Workshops Case Studies  Problem-Based Learning (PBL)	Report Daily quiz Monthly exam Direct questions

11. Infrastructure

1. Books Required reading:	Lectures
2. Main references (sources)	"Lewis, Human Genetics, 10th Edition, published by McGraw-Hill International."
A- Recommended books and references (scientific journals, reports...).	<ol style="list-style-type: none"> <li>1. <b>Principles of Genetics (8th Edition)</b> by Snustad and Simmons - This book covers fundamental concepts in classical and molecular genetics and explains the genetic basis of diseases.</li> <li>2. <b>Genetics: A Conceptual Approach (6th</b></li> </ol>



	<p><b>Edition)</b> by Benjamin Pierce - Focuses on helping students understand genetic concepts through the use of real-world problems and case studies.</p> <ol style="list-style-type: none"> <li><b>Medical Genetics (6th Edition)</b> by Jorde, Carey, Bamshad, and White - A book that focuses on the clinical applications of genetics, including the diagnosis and medical management of genetic diseases.</li> <li>In addition to books, it is recommended to follow scientific journals to stay updated with the latest research in medical genetics, such as:       <ol style="list-style-type: none"> <li><b>Nature Genetics</b></li> <li><b>American Journal of Human Genetics</b></li> </ol> </li> </ol>
B-Electronic references, Internet sites...	<ol style="list-style-type: none"> <li><b>Online Mendelian Inheritance in Man (OMIM)</b> – For detailed information on genes and genetic diseases: OMIM.</li> <li><b>Genetics Home Reference</b> - To learn more about genes and genetic diseases.</li> <li><b>National Center for Biotechnology Information (NCBI)</b> - For genetic databases and analysis tools: NCBI.</li> <li><b>The Human Genome Project</b> - To explore the basics and applications of the genome.</li> <li><b>GeneCards</b> - For comprehensive information on genes.</li> </ol>

## 12. The development of the curriculum plan

- Review of Scientific Content:** Ensure that the course material reflects the latest discoveries in the field of genetics.
- Update Educational Materials:** Utilize modern technologies and software in genetic research.
- Increase Hands-on Learning:** Add more practical experiments in the laboratories to enhance critical thinking.
- Academic and Research Partnerships:** Provide practical training opportunities and collaborate with research institutions.
- Develop Assessment Methods:** Use assessment techniques that reflect analytical and critical thinking skills.
- Enhance Ethical Awareness and Social Responsibility:** Integrate topics related to ethics in genetics.
- Encourage Student Research:** Support students in conducting independent research and participating in scientific conferences.

## Course Description Form

<b>25. Course Name:</b>					
Bacteriology and immunology for the second year					
<b>26. Course Code:</b>					
Theory immunology and bacteriology					
<b>27. Semester / Year:</b>					
Annual					
<b>28. Description Preparation Date:</b>					
15/2/2024					
<b>29. Available Attendance Forms:</b>					
Theoretical lectures					
<b>30. Number of Credit Hours (Total) / Number of Units (Total)</b>					
20 hours annually -2 hours weekly					
<b>31. Course administrator's name (mention all, if more than one name)</b>					
Name: Raghad saad abdukreem Email: Raghadsaad@tu.edu.iq					
<b>32. Course Objectives</b>					
<b>Course Objectives</b>			<ul style="list-style-type: none"> <li><b>1-Know the type of immunity ,immu organ and immune response</b></li> <li><b>2-Know the types of abnormal immu response</b></li> <li><b>3-Know the types of Gram positive bacterial infection ,its pathogenesis a virulence factors</b></li> <li><b>4-Know the types of spore forming bacteria,its pathogenesis and viruler factors</b></li> </ul>		
<b>33. Teaching and Learning Strategies</b>					
<b>Strategy</b>		1-Education strategy collaborative concept 2-Teaching strategy brainstorming 3-Education strategy notes series .			
<b>34. Course Structure</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluati on method</b>
1	1		Bacteriology and immunology	Explain scientific material giving	Da ,me
2	2			Lectural using	thl
3	3			Explanatory to	And

4	4			microscope data show	final
5	5				examin
6	6				ation
7	7				writing
8	8				research
9	9				and
10	10				report
11	11				
12	12				
13	13				
14	14				
15	15				
16	16				
17	17				
18	18				
19	19				
20	20				

### 35.Course Evaluation

15 marks for monthly and daily exams for the first semester ,15 marks for monthly and daily exams for the second semester ,,and 70 marks for the final exams.

### 36.Learning and Teaching Resources

Required textbooks (curricular books, if any)	Medical microbiology Jawetz,Melini and Adellbergs (2019).28ed McGraw Hill companies ,Inc.
Main references (sources)	Medical microbiology Jawetz,melini and Adellbergs (2019).28ed McGraw Hill companies ,Inc.
Recommended books and references (scientific journals, reports...)	Bacteriology methods for the study Of infectious disease (2019).Jenkins R.and Maddocks Academic press. <a href="https://www.elsevier.com">https://www.elsevier.com</a> ./books-and-journals

## Course Description Form

1. Course Name:
Mycology for the second year
2. Course Code:
Theoretical
3. Semester / Year:
Second / 2024

4. Description Preparation Date:					
31/ 01/ 2024					
5. Available Attendance Forms:					
Attendance and E-learning					
6. Number of Credit Hours (Total) / Number of Units (Total)					
3 / 1					
7. Course administrator's name (mention all, if more than one name)					
Name: Marwa Tariq Ahmed Email: <a href="mailto:marwa.tareq@tu.edu.iq">marwa.tareq@tu.edu.iq</a>					
8. Course Objectives					
Course Objectives		<ul style="list-style-type: none"> <li>• The curriculum includes the study of the basics of medical microbiology</li> <li>• Identify modern sterilization methods and laboratory diagnostic methods</li> </ul>			
9. Teaching and Learning Strategies					
Strategy		<ol style="list-style-type: none"> <li>1- Education strategy collaborative concept planning.</li> <li>2- Brainstorming education strategy.</li> <li>3- Education Strategy Notes Series</li> </ol>			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
3 weeks	1 hour Weekly Theoreti	Introduction Mycology Taxonomy And Nomenclatur Classification Of Mycology	Mycology	1. Explanation of the scientific material through model lectures 2.Use illustrative tools such as light microscopes, data show, smart board and plasma screens.	Weekly, monthly, daily and written exams and annual research and the end-of-year exam.

<b>11.Course Evaluation</b>					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports ... etc would be as follows: 20 degrees monthly and daily exams for the first semester. 20 degrees monthly and daily exams for the second semester. 60 marks for final exams					
<b>12.Learning and Teaching Resources</b>					
Required textbooks (curricular books, if any)					
Main references (sources)					
Jawetz, Melnick, & Adelberg's Medical Microbiology					
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					

## Course Description Form

<b>13.Course Name:</b>
Medical microbiology and immunology for the second year
<b>14.Course Code:</b>
Practical Immunology, Bacteriology, and Mycology
<b>15.Semester / Year:</b>
Annul
<b>16.Description Preparation Date:</b>
15/2/2024
<b>17. Available Attendance Forms:</b>
Practical and theoretical lectures –laboratory activities
<b>18. Number of Credit Hours (Total) / Number of Units (Total)</b>
60 hours annually -4 hours weekly
<b>19. Course administrator's name (mention all, if more than one name)</b>

Name: Wisal Raof Yaseen  
 Email: [mismicrobiology1980@tu.edu.iq](mailto:mismicrobiology1980@tu.edu.iq)

## 20. Course Objectives

<b>Course Objectives</b>	<b>1-Know the types of bacteria and fungus which infect humans.</b> <b>2-explain the methods of lab, diagnosis which used to detect microbiological infection.</b> <b>4-explaine different types of immunological tests which used to identify of human disease .</b>
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## 21. Teaching and Learning Strategies

<b>Strategy</b>	1-Education strategy collaborative concept planning 2-Teaching strategy brainstorming 3- Education strategy notes series
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## 22. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4h		Medical Microbiology & immunology	Explaining scientific material giving lectur Using explanatory tools microscope data show	Daily, monthly and final exams – writing research and reports
2	4h				
3	4h				
4	4h				
5	4h				
6	4h				
7	4h				
8	4h				
9	4h				
10	4h				
11	4h				
12	4h				
13	4h				
14	4h				
15	4h				
Holiday	4h				
16	4h				
17	4h				
18	4h				
19	4h				
20	4h				
21	4h				
22	4h				
23	4h				
24	4h				

25	4h				
26	4h				
27	4h				
28	4h				
29	4h				
30	4h				
<b>23.Course Evaluation</b>					
15 marks for monthly and daily exams for the first semester, 15 marks for monthly and daily exams for the second semester. and 70 marks for the final exams					
<b>24.Learning and Teaching Resources</b>					
Required textbooks (curricular books, if any)		Medical Microbiology Jawetz, Melnick&Adellberg's. (2019). 28 <sup>ed</sup> McGraw-Hill companies, Inc.			
Main references (sources)		Medical Microbiology Jawetz, Melnick&Adellberg's. (2019). 28 <sup>ed</sup> McGraw-Hill companies, Inc.			

## Course Description Form

<b>25.Course Name:</b>	
2 <sup>nd</sup> class Virology -practical & theory	
<b>26.Course Code:</b>	
Theoretical & Practical	
<b>27.Semester / Year:</b>	
First & Second/ 2024	
<b>28.Description Preparation Date:</b>	
31/ 01/ 2024	
<b>29. Available Attendance Forms:</b>	
Attendance only	
<b>30. Number of Credit Hours (Total) / Number of Units (Total)</b>	
60 / 4	
<b>31. Course administrator's name (mention all, if more than one name)</b>	
Name: Dheya Saleh Mehdi Email: Dheyaa.saleh@tu.edu.iq	
<b>32.Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>• The curriculum includes the study of the basics of medical Virology</li> <li>• Identify modern sterilization methods and laboratory diagnostic methods</li> </ul>
<b>33.Teaching and Learning Strategies</b>	



<b>Strategy</b>	<p>1- Education strategy collaborative concept planning.</p> <p>2- Brainstorming education strategy.</p> <p>3- Education Strategy Notes Series</p>
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#### 34. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			Virus	<p>1. Explanation of the scientific material through model lectures</p> <p>2. Use illustrative tools such as light microscopes, data show, smart board and plasma screens.</p>	Weekly, monthly, daily and written exams and annual research and the end-of-year exam.

#### 35. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc would be as follows: 20 degrees monthly and daily exams for the first semester. 20 degrees monthly and daily exams for the second semester. 60 marks for final exams

#### 36. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Jawetz, Melnick, & Adelberg's Medical Microbiology KUBBY
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

## Course Description Form

**Course Description:** Asst. Prof. Dr. Alaa Zenzel Raad

Bacteriology theory for the third Class

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he or she has made the most of the learning opportunities available. It must be linked to the programme description.

<b>1. Educational Institution:</b>	<b>Tikrit University/ College of Medicine</b>
<b>2. Scientific Department</b>	<b>Microbiology Center</b>
<b>3. Course name</b>	<b>Course name/code Medical Microbiology</b>
<b>4. Available attendance forms</b>	<b>live attendance and e-learning</b>
<b>5. Semester/Year</b>	<b>Annual</b>
<b>6. Number of study hours (total)</b>	<b>60</b>
<b>7. Date of preparation of this description</b>	<b>6/6/2024</b>

### **Course Objectives:**

1. Embodying the vision, mission and goals of Tikrit University, and applying the best educational practices with a focus on ensuring quality and performance and enhancing them.
2. Preparing specialized cadres capable of serving the community and preparing for the preparation of future specializations.
3. Spreading the culture of human diversity in the community and transferring scientific knowledge and skills, writing academic research and creative scientific achievement through activities that focus on the student and the teacher.

4. The college seeks to conclude scientific and cultural cooperation agreements with similar colleges and departments in different colleges to achieve the best practices in the fields of education and medicine.
5. Focusing on the educational and moral aspect of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the homeland.
6. Focusing on intellectual and cultural construction through openness to the experiences of other countries in the fields of medicine and basic sciences.
7. Focusing on the educational and moral aspect of the student and spreading the spirit of dedication, tolerance and commitment.

## **10. Course outcomes, teaching, learning and assessment methods**

### **A- Cognitive objectives**

- A1- The student's knowledge of the types of bacteria that cause diseases
- A2- Knowledge of methods of diagnosing and treating them
- A3-
- A4-
- A5-
- A6-

### **B - Course specific skill objectives.**

- B1 - Expanding students' skills in knowing pathogenic bacteria.
- B2 - Providing preventive and therapeutic services to those with communicable and chronic diseases
- B3 - Enabling them to solve health problems that affect humans
- B4-

### **Teaching and learning methods**

- 1- Large group teaching
- 2- Small group teaching
- 3- Practical and clinical session

### **Evaluation methods**

Formative and summative exam

C- Emotional and value-based goals

C1- Teamwork

C2- Dealing with patients according to medical ethics

C3-
C4-
<b>Teaching and learning methods</b>
1.Large group teaching 2.Small group teaching 3- Practical and clinical session
<b>Evaluation methods</b>
Formative and summative exam
D- General and transferable skills (other skills related to employability and personal development). D1- Ability to deal with health problems D2- Application of laws and commitment to ethics D3- Ability to provide preventive and therapeutic services to people and implement national programs D4-
<b>2 .Course structure</b>

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	Hours	week
Weekly, monthly, daily, written and end- of-year exams.	1- Explaining the scientific material through a presentation 2- Writing notes and explaining them on the electronic board 3- Linking students' ideas to the lecture topic	Bacteria	1.Providing students with the skill of knowing the types of bacteria	2	1
				2	2
				2	3
				2	4
				2	5
				2	6
				2	7
				2	8
				2	9
				2	10
				2	11
				2	12
				2	13
				2	14

Medical microbiology (Jawetz, Melnick & Adelberg`s).	1- Required textbooks
1. Medical Microbiology an introduction to infectious diseases (Sherris). 2. Diagnostic microbiology (Bailey & Scott`s). 3. Pictures from the net.	2- Main references (sources)

				2	15	
				2	16	
				2	17	
				2	18	
				2	19	
				2	19	
				2	20	
				2	21	
				2	22	
				2	23	
				2	24	
				2	25	
				2	26	
				2	27	
				2	28	
				2	29	
				2	30	

4. Microbiology & Immunity- Subhash Chandra Parija	
-Global programs of the World Health Organization and the Ministry of Health -Statistics of the Ministry of Health and other health programs	A- Recommended books and references (scientific journals, reports, etc.)
Reliable scientific websites	B - Electronic references, websites...

11. Curriculum Development Plan
Providing development proposals in line with development and modernity, which lead to developing the student's capabilities.

## Course Description Form

37. Course Name:
Microbiology for the third year
38. Course Code:
Practical
39. Semester / Year:
Third / 2024
40. Description Preparation Date:
31/ 01/ 2024
41. Available Attendance Forms:
Attendance only
42. Number of Credit Hours (Total) / Number of Units (Total)
60 / 4
43. Course administrator's name (mention all, if more than one name)
Name: <b>Jaafar Jameel Ibrahim</b> Email: <a href="mailto:jaafar.jameel.2022@tu.edu.iq">jaafar.jameel.2022@tu.edu.iq</a>

44.Course Objectives					
<b>Course Objectives</b>		<ul style="list-style-type: none"> <li>• <b>The curriculum includes the study of the basics of medical microbiology</b></li> <li>• <b>Identify modern sterilization methods and laboratory diagnostic methods</b></li> </ul>			
45.Teaching and Learning Strategies					
<b>Strategy</b>		1- Education strategy collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series			
46. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			Microbiology	1. Explanation of the scientific material through model lectures 2.Use illustrative tools such as light microscopes, data show, plasma screens.	Weekly, monthly, daily and written exams and annual research and the end-of-year exam.
47.Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports ... etc would be as follows: 20 degrees monthly and daily exams for the first semester. 20 degrees monthly and daily exams for the second semester. 60 marks for final exams					
48.Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)			Jawetz, Melnick, & Adelberg's Medical Microbiology Bailey and Scott's Diagnostic Microbiology		
Recommended books and references (scientific journals, reports...)					

### Course Description Form

**Course Description: Prof. Dr. Israa Hashim Saadoon**

Theory Virology For 3<sup>rd</sup> Class

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he or she has made the most of the learning opportunities available. It must be linked to the programme description.

<b>1. Educational Institution:</b>	<b>Tikrit University/ College of Medicine</b>
<b>2. Scientific Department</b>	<b>Microbiology</b>
<b>3. Course name</b>	<b>Virology/ 3<sup>rd</sup> Class</b>
<b>4. Available attendance forms</b>	<b>live attendance</b>
<b>5. Semester/Year</b>	<b>Annual</b>
<b>6. Number of study hours (total)</b>	<b>20</b>
<b>7. Date of preparation of this description</b>	<b>1/9/2021</b>



**Course Objectives:**

Identify the student with the following:

The role of viruses in respiratory tract infections

The role of viruses in gastrointestinal tract infections.

The role of viruses in CNS infections.

The role of viruses in genital infections.

Viral hepatitis: routes of transmission, diagnosis, treatment and preventive measures.

Prion diseases.

Control and prevention

**11. Course outcomes, teaching, learning and assessment methods****A- Cognitive objectives**

A1- The student's knowledge of the types of viruses that cause diseases

A2- Knowledge of routes of transmission

A3- Knowledge of methods of laboratory diagnosis

A4-

**B - Course specific skill objectives.**

B1 – understand the relation of viruses with infection of different parts of human body.

B2 – understand methods of laboratory diagnosis, preventive measures and treatment.

**Teaching and learning methods**

3- Large group teaching

4- Small group teaching

3- Practical and clinical session

**Evaluation methods**

Formative and summative exam

<p>C-</p> <p>C1 Emotional and value-based goals</p> <p>C2- Dealing with patients according to medical ethics</p> <p>C3-</p> <p>C4-</p>
<p><b>Teaching and learning methods</b></p>
<p>1.Large group teaching</p> <p>2.Small group teaching</p> <p>3- Practical and clinical session</p>
<p><b>Evaluation methods</b></p>
<p>Formative and summative exam</p>
<p>D- General and transferable skills (other skills related to employability and personal development).</p> <p>D1- Ability to deal with health problems</p> <p>D2- Application of laws and commitment to ethics</p> <p>D3- Ability to provide preventive and therapeutic services to people and implement national programs</p> <p>D4-</p>
<p><b>2 .Course structure</b></p>

Days	Learning method	Name of the unit or topic	Required learning outcomes
15 day per	1- Large group teaching 2- Small group teaching 3- Practical and clinical session	Virology	<ul style="list-style-type: none"> <li>• Understand the relation of viruses with infection of different parts of human body.</li> <li>• Understand methods of laboratory diagnosis, preventive measures and</li> </ul>

Jawetz Medical Microbiology, 28 <sup>th</sup> edition/ 2019.	1- Required textbooks
1- Prescott's Microbiology, 12 <sup>th</sup> edition/2023.	2- Main references (sources)
1. Sherri's Medical Microbiology, 8 <sup>th</sup> edition/2022. 2. Prescott's Microbiology, 12 <sup>th</sup> edition/2023. 3. MicroBiology: An Introduction, 13 <sup>th</sup> edition/ 2019. Gerard J. Tortora/ Berdell R. Funke/ Christine L. Case.	A- Recommended books and references (scientific journals, reports, etc.)
course	treatment.

### Course Description Form

49. Course Name:
3 <sup>rd</sup> class Virology /practical
50. Course Code:
Theoretical & Practical
51. Semester / Year:
First & Second/ 2024
52. Description Preparation Date:

31/ 01/ 2024					
53. Available Attendance Forms:					
Attendance only					
54. Number of Credit Hours (Total) / Number of Units (Total)					
60 / 4					
55. Course administrator's name (mention all, if more than one name)					
Name: Dheyaa Saleh Mehdi Email: Dheyaa.saleh@tu.edu.iq					
56. Course Objectives					
Course Objectives		<ul style="list-style-type: none"> <li>• The curriculum includes the study of the basics of medical Virology</li> <li>• Identify modern sterilization methods and laboratory diagnostic methods</li> </ul>			
57. Teaching and Learning Strategies					
Strategy		<ol style="list-style-type: none"> <li>1- Education strategy collaborative concept planning.</li> <li>2- Brainstorming education strategy.</li> <li>3- Education Strategy Notes Series</li> </ol>			
58. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			Virus	<ol style="list-style-type: none"> <li>1. Explanation of the scientific material through model lectures</li> <li>2. Use illustrative tools such as light microscopes, data show, smart board and plasma screens.</li> </ol>	Weekly, monthly, daily and written exams and annual research and the end-of-year exam.

<b>59.Course Evaluation</b>	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc would be as follows: 20 degrees monthly and daily exams for the first semester. 20 degrees monthly and daily exams for the second semester. 60 marks for final exams	
<b>60.Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	
Main references (sources)	Jawetz, Melnick, & Adelberg's Medical Microbiology KUBBY
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

## Course Description Form

61.Course Name: Medical Parasitology for the third year
62.Course Code: Theory
63.Semester / Year: year
64.Description Preparation Date:14\2\2024
65. Available Attendance Forms: attendance
66. Number of Credit Hours (Total) / Number of Units (Total) 60 hours
67. Course administrator's name (mention all, if more than one name) Name: Asst.prof. Zainab Sulaiman Email: dr.zainab.s@tu.edu.iq

68.Course Objectives					
Course Objectives		<ul style="list-style-type: none"> <li>• .....</li> <li>• .....</li> <li>• .....</li> </ul>			
69.Teaching and Learning Strategies					
Strategy					
70. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2hours		Medical parasitology	Toxoplasmosis	امتحانات الأسبوعية والشهرية والیومية لتحريرية وامتحان ایة السنة.
2	2hou	1 Definition of parasite		-Identify the morphology of <i>Toxoplasma gondii</i>	
3		-			
4	2hou	Assessment			
5	2hou	the Types of hosts		-Life cycle ,ways of transmission and pathogenesis of parasite cat diseases	
6	2hou	-			
7	2hou	Assessment			
8		the Types of parasites			
9	2hou	-Identify the important pathogenic species of protozoa			
10	2hou				
11	2hou				
12	2hou				
13		-Protozoa classification			
14	2hou				
15	2hou	-Identify the morphology			
عطلة	2hou	-Life cycle ,ways of transmission and pathogenesis of parasite		Introduction to helminthology\ Nematodes	
16	2hou				
17	2hou				
18	2hou			Identify the morphology of <i>Ascaris</i>	
19	2hou			-Life cycle ,ways of transmission and pathogenesis of Ascariasis	
20	2hou				
21	2hou				
22	2hou	Management of the parasitic diseases		-Management of the parasitic disease that	
23	2hou				
24	2hou				
25	2hou				

<p>26 27 28 29</p> <p>3</p>	<p>2hou 2hou 2hou 2hou 2hou</p>	<p>-Identify the important pathogenic species of protozoa -Protozoa classification -Identify the morphology -Life cycle ,ways of transmission and pathogenesis of parasite - Management of the parasitic diseases</p> <p>Identify the morphology -Life cycle ,ways of transmission and pathogenesis of parasite -Management the parasitic diseases</p>		<p>cause by Ascaris Hook worms Identify the morphology of <i>Ancylostoma and Necator americans</i> -Life cycle ,ways of transmission and pathogenesis of Ancylostomiasis -Management of the parasitic disease that cause by <i>Ancylostoma and Necator Americans</i></p>	
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<b>71.Course Evaluation</b>					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc					
<b>72.Learning and Teaching Resources</b>					
Required textbooks (curricular books, if any)					
Main references (sources)			Medical parasitology by perkins		
Recommended books and references (scientific journals, reports...)					

## Course Description Form

<b>73.Course Name: Medical Parasitology</b>	
<b>74.Course Code:</b>	
Practical	
<b>75.Semester / Year: year</b>	
<b>76.Description Preparation Date:10\2\2024</b>	
<b>77. Available Attendance Forms: attendance</b>	
<b>78. Number of Credit Hours (Total) / Number of Units (Total) 60 hours</b>	
<b>79. Course administrator's name (mention all, if more than one name)</b>	
Name: Lecturer Israa Izzadeen Ibrahim Email: israamicro@tu.edu.iq	
<b>80.Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>• .....</li> <li>• .....</li> <li>• .....</li> </ul>
<b>81.Teaching and Learning Strategies</b>	
<b>Strategy</b>	



82. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4hour		Medical parasitology	Theoretical and practical lecture 2-smallgroup teaching 3-lab diagnosis	Evaluation methods: 1- Daily exams - Research activities related to the subject - 2- Discussions - 3- Presenting seminars (reports) on the subject - Monthly final exams
2	4hour	1 Definition of parasite			
3	4hour	- Assessment the Types of hosts			
4	4hour	- Assessment the Types of parasites			
5	4hour	-Identify the important pathogenic species of protozoa			
6	4hour	-Protozoa classification			
7	4hour	-Identify the morphology			
8	4hour	-Life cycle			
9	4hour	,ways of transmission and pathogenesis of parasite			
10	4hour				
11	4hour				
12	4hour				
13	4hour				
14	4hour				
15	4hour				
16	4hour				
17	4hour				
18	4hour				
19	4hour				
19	4hour				
20	4hour				
21	4hour				
22	4hour				
23	4hour	Management of the parasitic diseases			
24	4hour				
25	4hour				
26	4hour				
27	4hour				
28	4hour				
29	4hour	-Identify the important pathogenic species of protozoa			
30	4hour	-Protozoa classification			

		<p>-Identify the morphology          –Life cycle          ,ways of transmission and pathogenesis of parasite          -          Management of the parasitic diseases</p>			
		<p>Identify the morphology          –Life cycle          ,ways of transmission and pathogenesis of parasite          -Management of the parasitic diseases</p>			

### 83.Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

### 84.Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Medical parasitology by perkins
Recommended books and references (scientific journals, reports...)	Essentials of medical parasitology By Reba Kanungo

