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.

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 كاظم حسين العبيدي
مسؤول شعبة ضمان الجودة

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:

كلية الطب
شعبة ضمان الجودة
والاداء الجامعي

Approval of the Dean

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
Nill

6 Program Structure				
Program Structure	Number of Courses:	Credit hours	Percentage	Reviews•

	First, second, and third stages			
Institution Requirements				
			College Requirements	Basic requirements

Department Requirements				
Summer Training	Nill			
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
١		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

8- Learning outcomes:	
Knowledge: of microbial cell structure, virulence factors and other mechanisms of pathogenesis.	
Skills: acquiring the skill of diagnosing infectious diseases, treatment, and ways of prevention and control.	
9-Teaching and learning strategies: Theoretical lectures, practical laboratory learning, and seminars.	

10- Ways of assessment: quizzes, monthly and final exams theory and practical.

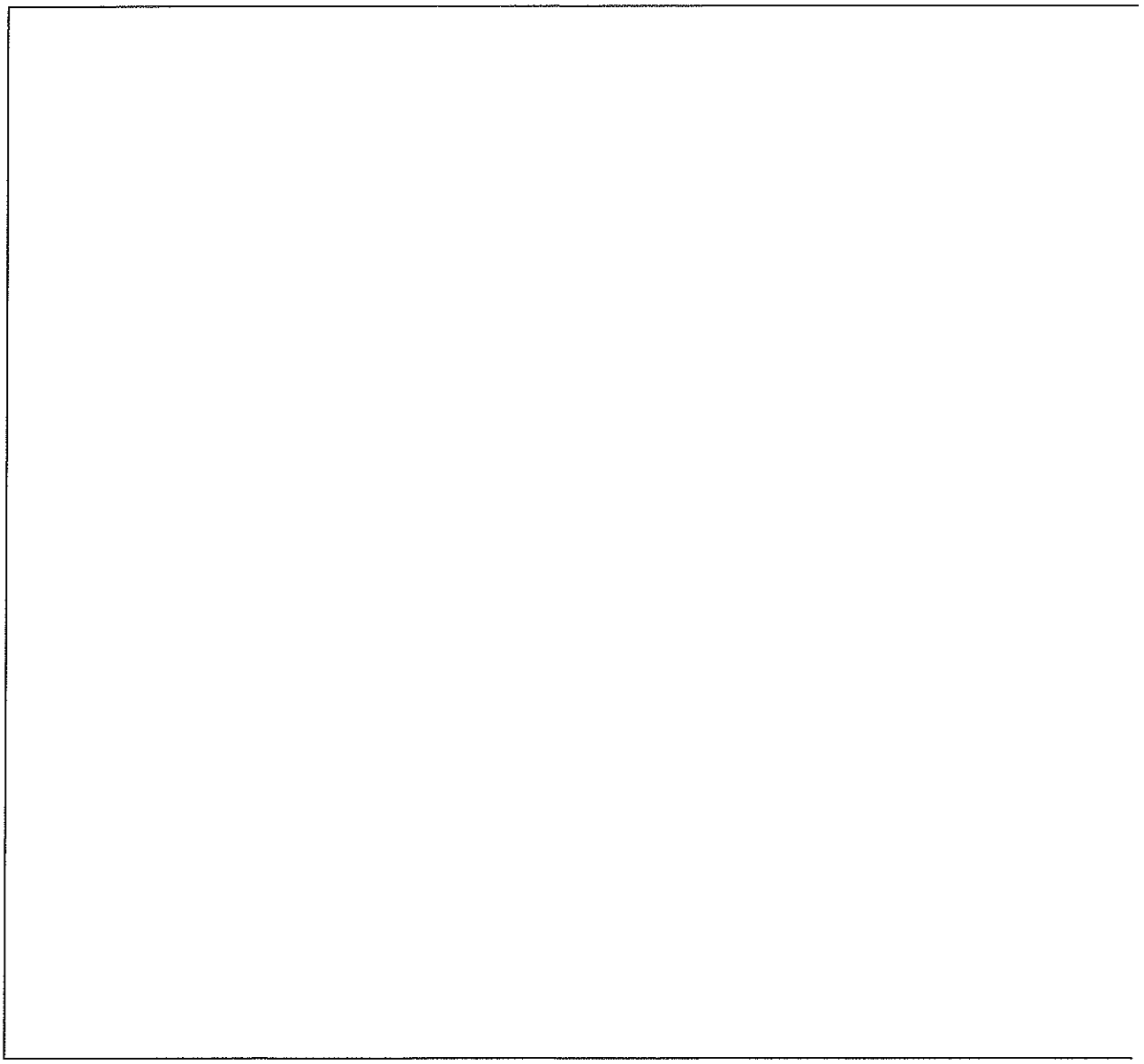
11- Faculty

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

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



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

1. Course Name:
Microbiology for the first year
2. Course Code:
Theoretical & Practical
3. Semester / Year:
Second / 2024
4. Description Preparation Date:
31/ 01/ 2024
5. Available Attendance Forms:
Attendance only
6. Number of Credit Hours (Total) / Number of Units (Total)
60 / 4
7. Course administrator's name (mention all, if more than one name)
Name: Marwa Tariq Ahmed Email: marwa.tareq@tu.edu.iq

8. Course Objectives	
Course Objectives	• The curriculum includes the study of the basics of Medical Microbiology • Identify modern sterilization methods and laboratory diagnostic methods

9. Teaching and Learning Strategies	
Strategy	1- Education strategy collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series

10. Course Structure

Week	Hours	Required Learning	Unit or subject name	Learning method	Evaluation method

		Outcomes			
			Microbiology	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.

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:
1st class Virology –practical & theorical
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: Dheyaa.saleh@tu.edu.iq
20. Course Objectives

Course Objectives	• The curriculum includes the study of the basics of medical Virology • Identify modern sterilization methods and laboratory diagnostic methods
21. Teaching and Learning Strategies	
Strategy	1- Education strategy collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series

22. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

			Virus	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.

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

1. Gain a comprehensive understanding of the fundamental principles of human genetics.
2. Comprehend the structure of genes and chromosomes and their functions.
3. Study the mechanisms of genetic trait transmission and inheritance processes.
4. Understand the processes of DNA replication, transcription, genetic coding, and protein production.
5. Delve into the knowledge of the inheritance of dominant and recessive genetic diseases.
6. Develop the ability to work with genetic engineering techniques and their applications in treatment.
7. Acquire a foundational understanding of genetic counseling and the importance of early diagnosis of genetic diseases.
8. Learn about the characteristics of stem cells and how they can be utilized in genetic and therapeutic aspects.

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	• **Advances in Genetic Sciences** • **Contemporary Genetic Technologies and Applications** • **Ethics and Innovation in Genetics** • **Practical Genetic Research Methods** • **Genetics in the Modern Era: Applications and Ethics** • **Integrative Genetics: From Laboratory to Clinical Practice**	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…).	1. **Principles of Genetics (8th Edition)** by Snustad and Simmons - This book covers fundamental concepts in classical and molecular genetics and explains the genetic basis of diseases. 2. **Genetics: A Conceptual Approach (6th**

	Edition) by Benjamin Pierce - Focuses on helping students understand genetic concepts through the use of real-world problems and case studies. 3. **Medical Genetics (6th Edition)** 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. 4. In addition to books, it is recommended to follow scientific journals to stay updated with the latest research in medical genetics, such as: 5. **Nature Genetics** 6. **American Journal of Human Genetics**
B-Electronic references, Internet sites…	1. **Online Mendelian Inheritance in Man (OMIM)** – For detailed information on genes and genetic diseases: OMIM. 2. **Genetics Home Reference** - To learn more about genes and genetic diseases. 3. **National Center for Biotechnology Information (NCBI)** - For genetic databases and analysis tools: NCBI. 4. **The Human Genome Project** - To explore the basics and applications of the genome. 5. **GeneCards** - For comprehensive information on genes.

12. The development of the curriculum plan
1. **Review of Scientific Content:** Ensure that the course material reflects the latest discoveries in the field of genetics. 2. **Update Educational Materials:** Utilize modern technologies and software in genetic research. 3. **Increase Hands-on Learning:** Add more practical experiments in the laboratories to enhance critical thinking. 4. **Academic and Research Partnerships:** Provide practical training opportunities and collaborate with research institutions. 5. **Develop Assessment Methods:** Use assessment techniques that reflect analytical and critical thinking skills. 6. **Enhance Ethical Awareness and Social Responsibility:** Integrate topics related to ethics in genetics. 7. **Encourage Student Research:** Support students in conducting independent research and participating in scientific conferences.

Course Description Form

25. Course Name:
Bacteriology and immunology for the second year
26. Course Code:
Theory immunology and bacteriology
27. Semester / Year:
Annual
28. Description Preparation Date:
15/2/2024
29. Available Attendance Forms:
Theoretical lectures
30. Number of Credit Hours (Total) / Number of Units (Total)
20 hours annually -2 hours weekly
31. Course administrator's name (mention all, if more than one name)
Name: Raghad saad abdulkreem Email: Raghadsaad@tu.edu.iq
32. Course Objectives

Course Objectives	• 1–Know the type of immunity ,immune organ and immune response • 2–Know the types of abnormal immun response • 3–Know the types of Gram positive bacterial infection ,its pathogenesis ar virulence factors • 4–Know the types of spore forming bacteria,its pathogenesis and virulenc factors ....

33. Teaching and Learning Strategies	
Strategy	1-Education strategy collaborative concept 2-Teaching strategy brainstorming 3-Education strategy notes series .

34. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		Bacteriology ar immunology	Explain scienti material giving Lectural using Explanatory to microscope data show	Da ,m thl And final examination writing research and report

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,Melin and Aldellbergs (2019).28ed McGraw Hill companies ,Inc.
Main references (sources)	Medical microbiology Jawetz,meln and Adellbergs (2019).28ed McGraw Hill companies ,Inc.
Recommended books and references (scientific journals, reports...)	Bacteriology methods for the study Of infectious disease (2019).Jenkines R.and Maddocks Academic press. https://www.elesvier.com ./books-a 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: marwa.tareq@tu.edu.iq
8. Course Objectives

Course Objectives	• The curriculum includes the study of the basics of medical microbiology • Identify modern sterilization methods and laboratory diagnostic methods
9. Teaching and Learning Strategies	
Strategy	1- Education strategy collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series

10. Course Structure

Week	Hours	Required	Unit or subject	Learning method	Evaluation

		Learning Outcomes	name		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.

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
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

13. Course Name:	
Medical microbiology and immunology for the second year	
14. Course Code:	
Practical Immunology, Bacteriology, and Mycology	
15. Semester / Year:	
Annul	
16. Description Preparation Date:	
15/2/2024	
17. Available Attendance Forms:	
Practical and theoretical lectures –laboratory activities	
18. Number of Credit Hours (Total) / Number of Units (Total)	
60 hours annually -4 hours weekly	
19. Course administrator's name (mention all, if more than one name)	
Name: Wisal Raoof Yaseen Email: mismicrobilogy1980@tu.edu.iq	
20. Course Objectives	
Course Objectives	1–Know the types of bacteria and fungus which infect humans. 2–explain the methods of lab, diagnosis which used to detect microbiological infection. 4–expaine different types of immunological tests which used to identify of human disease .
21. Teaching and Learning Strategies	
Strategy	1-Education strategy collaborative concept planning 2-Teaching strategy brainstorming 3- Education strategy notes series
22. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Holiday 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h 4h		Medical Microbiology & immunology	Explaining scientific material giving lectu Using explanatory tools microscope data show	Daily, monthly and final exams – writing researc and reports

23. 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

24. Learning and Teaching Resources

Required textbooks (curricular books, if any	Medical Microbiology Jawetz, Melnick&Adellberg's. (2019). 28ed McGraw-Hill companies, Inc.
Main references (sources)	Medical Microbiology Jawetz, Melnick&Adellberg's. (2019). 28ed McGraw-Hill companies, Inc.

Course Description Form

25. Course Name:
2nd class Virology –practical & theory
26. Course Code:
Theoretical & Practical
27. Semester / Year:
First & Second/ 2024
28. Description Preparation Date:
31/ 01/ 2024
29. Available Attendance Forms:
Attendance only
30. Number of Credit Hours (Total) / Number of Units (Total)
60 / 4
31. Course administrator's name (mention all, if more than one name)
Name: Dheya Saleh Mehdi Email: Dheyaa.saleh@tu.edu.iq
32. Course Objectives

Course Objectives	• The curriculum includes the study of the basics of medical Virology • Identify modern sterilization methods and laboratory diagnostic methods
33. Teaching and Learning Strategies	
Strategy	1- Education strategy collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series

34. Course Structure

Week	Hours	Required	Unit or subject	Learning method	Evaluation

		Learning Outcomes	name		method
			Virus	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.

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.

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

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-
Teaching and learning methods
1.Large group teaching 2.Small group teaching 3- Practical and clinical session

Evaluation methods
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-
2 .**Course structure**

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	Hours	week
Weekly, monthly, daily, written and end-of-year exams.	١- 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.Informing students about the importance diseases caused by germs, their methods transmission, symptor and treatment.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 19 20

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. 4. Microbiology & Immunity- Subhash Chandra Parija	2- Main references (sources)
-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...

				2	21
				2	22
				2	23
				2	24
				2	25
				2	26
				2	27
				2	28
				2	29
				2	30

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: **Jaafar Jameel Ibrahim** Email: jaafar.jameel.2022@tu.edu.iq

44. Course Objectives	
Course Objectives	• The curriculum includes the study of the basics of medical microbiology • Identify modern sterilization methods and laboratory diagnostic methods

45. Teaching and Learning Strategies	
Strategy	1- Education strategy collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series

46. Course Structure

Week	Hours	Required	Unit or subject	Learning method	Evaluation

		Learning Outcomes	name		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...)	
Electronic References, Websites	

Course Description Form

Course Description: Prof. Dr. Israa Hashim Saadoon

Theory Virology For 3rd 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.

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

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: routs 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 routs 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

C-
C1 Emotional and value-based goals
C2- Dealing with patients according to medical ethics

C3-

C4-

Teaching and learning methods

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

Evaluation methods

Formative and summative exam

D- General and transferable skills (other skills related to employability and personal development).

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

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-

2 .Course structure

Days	Learning method	Name of the unit or topic	Required learning outcomes
15 day per course	1- Large group teaching 2- Small group teaching 3- Practical and clinical session	Virology	• Understand the relation of viruses with infection of different parts of human body. • Understand methods of laboratory diagnosis, preventive measures and treatment.

Course Description Form

49. Course Name:
3rd 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	• The curriculum includes the study of the basics of medical Virology • Identify modern sterilization methods and laboratory diagnostic methods
57. Teaching and Learning Strategies	
Strategy	1- Education strategy collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series
58. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			Virus	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.

59. 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

60. 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

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	• ..... • ..... • .....

69.	Teaching and Learning Strategies
Strategy	

70. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2 3 4 5	2hours 2hou 2hou 2hou	1 Definition of parasite - Assessment the Types of	Medical parasitolog	Toxoplasmosis -Identify the morphology of *Toxoplasma gondii* –Life cycle	متحانات لأسبوعية و الشهرية واليومية لتحريرية

6	2hou	hosts		,ways of transmission and pathogenesis of parasite cat diseases -Management the paras diseases(cat disease)	وامتحان اية السنة.
7	2hou	- Assessment the Types of parasites -Identify the important pathogenic species of protozoa -Protozoa classification -Identify the morphology –Life cycle ,ways of transmission and pathogenesis of parasite			
8					
9	2hou				
10	2hou				
11	2hou				
12	2hou				
13					
14	2hou				
15	2hou				
عطلة	2hou			Introduction to helminthology\ Nematodes Identify the morphology of Ascaris –Life cycle ,ways of transmission and pathogenesis of Ascariasis -Management of the parasitic disease that cause by Ascaris Hook worms Identify the morphology of *Ancylostoma and Necator americans* –Life cycle ,ways of transmission and pathpgensis of Ancylostomiasis -Management of the parasitic disease that cause by Ancylostoma and Necator Americans	
16	2hou				
17	2hou				
18	2hou				
19	2hou				
19	2hou				
20	2hou				
21	2hou				
22	2hou				
23	2hou	Management of the parasitic diseases			
24	2hou				
25	2hou				
26	2hou				
27	2hou				
28	2hou				
29	2hou				
3	2hou				

		diseases Identify the morphology –Life cycle ,ways of transmission and pathogenesis of parasite -Management the paras diseases			

71. 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

72. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	Medical parasitology by perkins
Recommended books and references (scientific journals, reports...)	

Course Description Form

73.	Course Name: Medical Parasitology
74.	Course Code:
Practical	
75.	Semester / Year: year
76.	Description Preparation Date:10\2\2024
77.	Available Attendance Forms: attendance
78.	Number of Credit Hours (Total) / Number of Units (Total) 60 hours
79.	Course administrator's name (mention all, if more than one name)
Name: Lecturer Israa Izzadeen Ibrahim Email: israamicro@tu.edu.iq	
80.	Course Objectives

Course Objectives	• ..... • ..... • .....

81.	Teaching and Learning Strategies
Strategy	

82. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2 3 4 5 6	4hou 4hou 4hou 4hou 4hou	1 Definition of parasite - Assessment the Types of hosts -	Medical parasitology	Theoretical and practical lecture 2-smallgroup teaching 3-lab diagnosis	Evaluation methods: 1-Daily exams - Research activities related to the subject

7 8 9 10 11 12 13 14 15 عطلة 16 17 18 19 19 20 21 22 23 24 25 26 27 28 29 30	4hou 4hou 4hou 4hou 4hou 4hou 4hou 4hou 4hou 4hou 4hou 4hou 4hou 4hou 4hou 4hou 4hou 4hou 4hou 4hou 4hou 4hou 4hou 4hou	Assessment the Types of parasites -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 -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			- 2- Discussions - 3- Presenting seminars (reports) on the subject - Monthly a final exams

		Identify the morphology –Life cycle ,ways of transmission and pathogenesis of parasite -Management the paras diseases			

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