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

Academic Program Description
Hilla University
Faculty of Health and Medical Technologies
Department of Medical Laboratory Technologies

2025

University Name: Hilla University

Faculty/Institute: Faculty of Health and Medical Technologies

Scientific Department: Department of Medical Laboratory Technologies

Academic or Professional Program Name: Bachelor of Medical Laboratory Technologies

Final Certificate Name: Bachelor of Medical Laboratory Technologies

Academic System: Semester

Date of preparation of the description :

File filling date:

Signature	**Signature:**
Scientific Associate Name	**Head of Department Name:**
Date	**Date:**

The file was checked by the Division of Quality Assurance and University Performance

Name of the Head of the Quality Assurance and University Performance Division

Date

Signature

Approval of the Dean

1. Vision

The college seeks to prepare scientifically and technically distinguished cadres, capable of working efficiently in government and private medical laboratories, in a way that contributes to strengthening the health sector and serving the country

2. Program Mission

Contribute to the graduation of highly qualified technical specialists capable of keeping pace with scientific and technical developments in the fields of medical laboratories, with the aim of improving the health reality in the country

3. Program Objectives

Preparing specialized professional cadres to work in the laboratories of hospitals, the Ministry of .1
.Health, public and private laboratories, and related institutions to achieve community service
Developing the research, scientific and technical capabilities of faculty members and graduates, and .2
.encouraging the use of modern methods in various fields of specialization
Establishing strong scientific and research partnerships with counterpart departments in local and .3
.international universities, through participation in seminars, training courses and workshops
Providing scientific and technical consultations to contribute to solving specialized problems facing .4
.relevant institutions
,The department seeks to achieve future goals by enhancing its academic and scientific career .5
.including the establishment of graduate programs in the future

4. Program Accreditation

The program does not have any accreditation

5. External influences

There is no sponsor for the program

6. Program Structure

Program Structure	Number of cycles	Credit Hours	Percentage	*Reviews
Requirements of the institution	2	5	%2.6	Essential
College Requirements	7	17	%8.9	Essential
Department Requirements	35	170	%88.5	Essential
Summer Training				/
Other	/	/	/	/

Study Plan for Medical Laboratories Department							
Grades	Course or Course Code	Course Name	Credit Hours				Units
			theoretical	Teaching method	practical	Teaching method	
First Stage First semester	HMLT31101	General Chemistry	2	Lecture	5	App	4
	HMLT31102	Medical Terminology	2	Lecture	0		2
	HMLT31103	Human Biology 1	2	Lecture	5	App	4
	HMLT31104	Laboratory Equipment 1	2	Lecture	4	App	4
	HMLT31105	Professional Behaviour	2	Promoting Human Values	0		2
	HMLT31106	Computer Principles 1	1	Lecture	2	App	2
	HMLT31107	Human Rights and Democracy	2	Promoting Human Values	0		1
	HMLT31108	English Language	3	Lecture	0		3
First Stage Second semester	HMLT31201	General Chemistry 2	2	Lecture	5		4
	HMLT31209	Anatomy	2	Lecture	5	App	4
	HMLT31203	Human Biology 2	2	Lecture	5	App	4
	HMLT31204	Laboratory Instrumentation 2	2	Lecture	4	App	4
	HMLT31206	Computer Principles 2	1	Lecture	2	App	2
	HMLT31210	Arabic language	2	Promoting Human Values	0		2
Second Stage First semester	HMLT32111	Medical Bacteriology 1	2	Lecture	4	App	4
	HMLT32112	Biochemistry 1	2	Lecture	4	App	4
	HMLT32113	Human Physiology 1	2	Lecture	4	App	4
	HMLT32114	Histology 1	2	Lecture	4	App	4
	HMLT32115	Molecular Biology	2	Lecture	4	App	4
	HMLT32116	Medical Parasitology 1	2	Lecture	4	App	4
	HMLT32117	Crimes of the Baath Regime in Iraq	2	تعزيز القيم الاساسية	0		2
Second Stage Second semester	HMLT32201	Medical Bacteriology 2	2	Lecture	4	App	4
	HMLT32202	Biochemistry 2	2	Lecture	4	App	4
	HMLT32213	Human Physiology (2)	2	Lecture	4	App	4
	HMLT32214	Histology 2	2	Lecture	4	App	4
	HMLT32216	Medical Parasitology and Entomology 2	2	Lecture	4	App	4
	HMLT32218	Descriptive Biostatistics	1	Lecture	2	App	2
	HMLT32210	Arabic language	2	تعزيز القيم الاساسية	0		2
Third Stage	HMLT33119	Histopathology-1	2	Lecture	2	App	3

First semester	**HMLT**33120	Hematopathology	2	**Lecture**	2	**App**	3
	HMLT33116	Medical Mycology	2	**Lecture**	4	**App**	4
	HMLT33121	Metabolic disorders	2	**Lecture**	4	**App**	4
	HMLT33122	Medical Genetics-1	2	**Lecture**	4	**App**	4
	HMLT33123	Immunology-1	2	**Lecture**	4	**App**	4
	HMLT33124	Advanced Laboratory Techniques	2	**Lecture**	2	**App**	3
	HMLT33106	Computer Apps	1	**Lecture**	2	**App**	2
Third Stage second semester	**HMLT**33201	Histopathology-2	2	**Lecture**	2	**App**	3
	HMLT33220	Haematology-2	2	**Lecture**	2	**App**	3
	HMLT33225	Clinical Virology	2	**Lecture**	4	**App**	4
	HMLT33226	Clinical Endocrinology	2	**Lecture**	4	**App**	4
	HMLT33222	Human Genetics-2	2	**Lecture**	4	**App**	4
	HMLT33223	Medical Immunology-2	2	**Lecture**	4	**App**	4
	HMLT33107	Analytical Biostatistics	1	**Lecture**	3	**App**	2
	HMLT33206	Computer Apps	1	دروس	0	**App**	2
Fourth Stage First semester							
	HMLT34128	Clinical Immunology	2	**Lecture**	4	**App**	4
	HMLT34129	Diagnostic Bacteriology	2	**Lecture**	4	**App**	4
	HMLT34130	Clinical Enzymology	2	**Lecture**	4	**App**	4
	HMLT34131	Diagnostic Parasitology	2	**Lecture**	4		4
	HMLT34132	Blood Transfusion	2	**Lecture**	4	**App**	4
	HMLT34133	Pathology	2	**Lecture**	4	**App**	4
	HMLT34134	Professional Ethics	2	**Lecture**	-		2
	HMLT34135	Research Methods	2	**Lecture**	-		1
fourth Stage second semester	**HMLT**34228	Clinical Immunology-2	2	**Lecture**	4	**App**	4
	HMLT34229	Diagnostic Bacteriology-2	2	**Lecture**	4	**App**	4
	HMLT34236	Stem Cell and Embryology	2	**Lecture**	-		2
	HMLT34231	Diagnostic Parasitology-2	2	**Lecture**	4		4
	HMLT34237	Clinical Chemistry	2	**Lecture**	4	**App**	4
	HMLT34238	Antibiotic Resistance and Control	2	**Lecture**	4		4
	HMLT34239	of infections	1	**Lecture**	-		1
	HMLT34240	Laboratory management	-	دروس	6		4
							199

1. Expected learning outcomes of the program

Knowledge	
Learning Outcomes	Methods of assessing knowledge and understanding

أ- - :Knowledge and understanding 1- Teaching the student topics related to the specialization of medical laboratories 2- Preparation and work of various methods used in medical laboratories 3- Training the student on how to obtain samples from reviewers for laboratory use 1- Interpret the results obtained from -4 the analysis and the extent to which they match the diagnosis of the condition	1- Weekly reports of practical experiments 2- Periodic tests of theoretical subjects 3- Theoretical and practical semester exams 4- Theoretical and practical final exams
Skills	
Learning Outcomes	Methods of assessing thinking skills
ب- - : Thinking skills 1- Using brainstorming through direct questions 2- The student should participate in all activities, discussions and dialogues in the lecture	1- Use logic to evaluate the answer 2- Identify errors to evaluate the answer 3- Evaluate the effectiveness of the methods adopted to solve the problem 4- Supporting opinions with evidence
ت- - :Professional and practical skills 1- The student must master the work inside the laboratory, how to deal with the available chemicals, and how to use laboratory tools 2- The student must master the theoretical scientific material	Statement of Learning Outcomes - :Methods of assessing practical skills Practical skills are assessed through individual differences between .students and the methods specific to each practical subject
Values	
Learning Outcomes	Statement of Learning Outcomes
1- The student should master the basics of civil society 2- The student should be an active member of the community 3- The student should understand the formulation of research projects 4- The student should know the ethics of research writing and scientific honesty	1- Student participation in community events outside the college campus 2- Visits community institutions and reviews the conditions of those in them 3- Good selection of titles of research projects, novelty and innovation in the method of presenting them 4- Research projects successfully exceed scientific plagiarism tests

2. Teaching and Learning Strategies

- **Lecture**

- **Dialogue and discussion**
- **Cooperative learning (division into groups)**
- **Brainstorming**
- Reciprocal teaching
- Publish the lecture on the website of the college or department and for all teachers and all subjects
- Use of display and audio equipment
- Writing research and reports in English
- Speaking in English in class and when participating
- Conducting research and experiments to achieve the goals of sustainable development

3.	**Evaluation methods**

- The direct way to ask and answer it in the lecture
- Expected and unannounced daily exams
- Evaluating research and evaluating its writing in terms of style, expression and spelling
- Ask questions to measure listening and attention in English
- Participation of students in evaluating the performance of their fellow students
- Practical assessment exams for listening, speaking and reading
- Monthly and Quarterly Exams
- Theoretical final exams

Professional Development

Mentoring new faculty members

- **Work on diversifying classroom management methods and lecture**
- **The new faculty is exposed to the visit of the head of the department and the old teachers during the lecture**
- **Conducting personal interviews to know the teaching competence and skill in teaching**
- **Publishing research in international journals with an impact factor, writing literature, and participating in workshops and conferences**

Professional development of faculty members

.The academic program is reviewed periodically in order to identify and fix its gaps ●
Annual evaluation of each unit from the head of the department or the rapporteur of the ●
.department
.Periodic faculty reviews of the academic program ●
Establishing an external advisory body for the department that includes representatives of the ●
.student and the beneficiaries of this course
.Periodic evaluation by the head of the department for faculty members ●
.Students evaluate the faculty member by electronic referendum ●
.Self-evaluation of the faculty member ●
.Student evaluation of a stage of study by electronic poll method ●
Coordination with the Quality Division in the college and university to follow up the App of the ●
.academic program in the department

7. Personal Development Planning

1. .Identify the social determinants of health to reduce disparities in access to quality care
2. ,Self-awareness (self-awareness) 0 Examine and reflect on personal knowledge, skills, abilities, beliefs .prejudices, motivations, and emotions that can enhance or limit personal and professional growth
3. Professionalism 0 Demonstrate behaviors and values consistent with the trust that patients, other .healthcare providers, and the community place in the profession
4. Learner (Learner) 0 develop, integrate and App knowledge from foundational sciences (e.g. dentistry and social/behavioral/managerial and clinical sciences) to
5. Evaluate the scientific literature, explain pharmacological action, solve therapeutic problems, and .advance the population. Healthcare and patient-centered
6. **Design prevention, intervention and education strategies for individuals and communities to .manage chronic diseases and improve health**
7. Educate all audiences by identifying the most effective and sustainable methods of conveying

.information and assessing understanding

8. Acceptance Criteria

1. The general average of central admission, which is within the applicable limits and according to the .directives of the Ministry of Higher Education and Scientific Research
2. Personal interview with students applying for admission and recording speech, behavioral or .personality defects

4. The most important sources of information about the program
The Quality Division in the college through the Quality Division at the university, which adheres to the conditions of quality and upgrading the level of scientific, knowledge, skills and scientific ,research according to the data and the Ministry of Higher Education and Scientific Research which seeks with international quality conditions to raise the efficiency of the Academy .programs in line with it

5. Program Development Plan
Work to motivate students to use medical books ●
Work on developing conversation, translation and reading skills by taking advantage of ● websites and means .Other contemporary
Work to encourage students to know the most important books of medicine ●

Curriculum Skills Chart																			
Required learning outcomes of the programme																			
General and transferable skills (other skills related to employability and personal development)				Affective and Value Objectives				Skill objectives of the programme				Cognitive objectives				Essential or optional	Course name	Course Code	Year/Level
د4	د3	د2	د1	ج4	ج3	ج2	ج1	ب4	ب3	ب2	ب1	أ4	أ3	أ2	أ1				
√	√	√	√	√	√	√	√	√	√	√	√			√	√		General Chemistry	HMLT31101	First Stage First semester
√	√	√	√	√	√	√	√	√	√	√	√			√	√		Medical Terminology	HMLT31102	
√	√	√	√	√	√	√	√	√	√	√	√			√	□		Human Biology 1	HMLT31103	
□	□	√	√	□	□	√	√	□	□	□	√			√	√		Laboratory Equipment 1	HMLT31104	
□	□	□	√	□	□	√	√	□	□	□	√			√	√		Professional Behaviour	HMLT31105	
√	√	√	√	√	√	√	√	□	√	√	√	√	√	√	√		Computer Principles 1	HMLT31106	
				□	√	√	√	□	√	√	√	√	√	√	√		Human Rights and Democracy	HMLT31107	
□	□	□	□	□	√	√	√	√	√	√	√	√	√	√	√		English Language	HMLT31108	
				√	√	√	√	□	√	√	√	□	□	√	√		General Chemistry 2	HMLT31201	First Stage second semester
□	√	□	□	□	√	√	□	□	√	√	□	□	√	√	√		Anatomy	HMLT31209	
□	□	□	□	□	□	√	√	□	□	√	√	□	□	√	√		Human Biology 2	HMLT31203	
√	√	√	√	√	√	√	√	□	√	√	√	√	√	√	√		Laboratory Instrumentation 2	HMLT31204	
□	□	□	□	□	□	√	√	□	□	√	√	□	√	□	√		Computer Principles 2	HMLT31206	
□	√	√	√	√	√	√	√	□	√	√	√	√	√	√	√		Arabic language	HMLT31210	
□	√	√	√	√	√	√	√	□	√	√	√	√	□	□	□		Medical Bacteriology 1	HMLT32111	Second Stage First semester
□	√	√	√	√	√	√	√	□	√	√	√	√	√	√	□		Biochemistry 1	HMLT32112	
□	□	□	□	□	□	√	√	□	√	√	√	□	□	√	√		Human Physiology 1	HMLT32113	
□	□	□	□	□	□	√	√	□	√	√	√	√	√	√	√		Histology 1	HMLT32114	
□	□	√	√	□	√	√	√	√	√	√	√	□	□	□	√		Molecular Biology	HMLT32115	

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□	□	√	√	□	□	√	√	□	√	√	√	√	√	√	√		Crimes of the Baath Regime in Iraq	**HMLT**32117	
□	□	√	√	□	□	√	√	□	√	√	√	√	√	√	√		Medical Bacteriology 2	**HMLT**32201	**Second Stage Second semester**
□	□	□	√	□	□	√	√	□	√	√	√	□	□	√	√		Biochemistry 2	**HMLT**32202	
√	√	√	√	□	□	√	√	□	□	√	√	□	□	√	□		Human Physiology (2)	**HMLT**32213	
□	□	√	√	□	√	√	√	√	√	√	√	√	√	√	□		Histology 2	**HMLT**32214	
√	√	√	√	□	□	√	√	□	□	√	√	□	□	√	□		Medical Parasitology and Entomology 2	**HMLT**32216	
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√	√	√	√	□	□	√	√	□	□	√	√	□	□	√	□		Histopathology-1	**HMLT**33119	**Third Stage First semester**
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√	√	√	√	□	□	√	√	□	□	√	√	□	□	√	□		Medical Mycology	**HMLT**33116	
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□	□	√	√	□	√	√	√	√	√	√	√	√	√	√	√		Immunology-1	**HMLT**33123	
□	□	√	√	□	√	√	√	√	√	√	√	√	√	√	√		Advanced Laboratory Techniques	**HMLT**33124	
□	□	√	√	□	√	√	√	√	√	√	√	√	√	√	√		Computer Apps	**HMLT**33106	
□	□	√	√	□	√	√	√	√	√	√	√	√	√	√	√		Histopathology-2	**HMLT**33201	**Third Stage Second semester**
□	□	√	√	□	√	√	√	√	√	√	√	√	√	√	√		Haematology-2	**HMLT**33220	
□	□	√	√	□	√	√	√	√	√	√	√	√	√	√	√		Clinical Virology	**HMLT**33225	
□	√	√	√	□	□	√	√	√	√	√	□	□	√	√	√		Clinical Endocrinology	**HMLT**33226	
□	√	√	√	□	□	√	√	√	√	√	□	□	√	√	√		Human Genetics-2	**HMLT**33222	
□	√	√	√	□	□	√	√	√	√	√	□	□	√	√	√		Medical Immunology-2	**HMLT**33223	
□	√	√	√	□	□	√	√	√	√	√	□	□	√	√	√		Analytical	**HMLT**33107	

																Biostatistics		
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□	√	√	√	□	□	√	√	√	√	√	□	□	√	√	√	Clinical Immunology	**HMLT**34128	**Fourth Stage First semester**
□	√	√	√	□	□	√	√	√	√	√	□	□	√	√	√	Diagnostic Bacteriology	**HMLT**34129	
□	√	√	√	□	□	√	√	√	√	√	□	□	√	√	√	Clinical Enzymology	**HMLT**34130	
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□	√	√	√	□	□	√	√	√	√	√	□	□	√	√	□	Professional Ethics	**HMLT**34134	
□	√	√	√	□	□	√	√	√	√	√	□	□	√	√	□	Research Methods	**HMLT**34135	
□	√	√	√	□	□	√	√	√	√	√	□	□	√	√	√	Clinical Immunology-2	**HMLT**34228	**Fourth Stage Second semester**
□	√	√	√	□	□	√	√	√	√	√	□	□	√	√	√	Diagnostic Bacteriology-2	**HMLT**34229	
□	√	√	√	□	□	√	√	√	√	√	□	□	√	√	√	Stem Cell and Embryology	**HMLT**34236	
□	√	√	√	□	□	√	√	√	√	√	□	□	√	√	□	Diagnostic Parasitology-2	**HMLT**34231	
□	√	√	√	□	□	√	√	√	√	√	□	□	√	√	□	Clinical Chemistry	**HMLT**34237	
□	√	√	√	□	□	√	√	√	√	√	□	□	√	√	√	Antibiotic Resistance and Control	**HMLT**34238	
□	√	√	√	□	□	√	√	√	√	√	□	□	√	√	□	of infections	**HMLT**34239	
□	√	√	√	□	□	√	√	√	√	√	□	□	√	√	□	Laboratory management	**HMLT**34240	