

Program Specification MSC clinical and Chemical pathology (2025- 2026)

1. Basic Information

ProgramTitle (according to what is stated in the bylaw):	Master degree of clinical and chemical pathology
Total number of credit hours/points of the program:	46 h
Number of academic years/levels (expected program duration):	1 st part: one semester (15 weeks) - 10 h 2 nd part: three semesters (45 weeks)
Department (s) Participating (if any) in teaching the program:	Clinical and Chemical : pathology department, , Parasitology, community environmental and occupational Medicine.
Faculty/Institute:	Benha university
University/Academy:	faculty of medicine
Program majors/divisions/tracks/specialties in the final year (if any):	Clinical Chemistry Clinical Hematology
Partnerships with other parties and the nature of each (if any):	Parasitology, community environmental and occupational Medicine.
Name of the program coordinator (attach the assignment decision):	Prof. Dr. Eman Ramadan
Program Specification Approval Date:	9/14/2025

Council responsible for Program Specification Approval (Attach the Decision / Minutes):	
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2. Program Aims (Brief description of the overall purpose the program)

The overall goals of the program are to develop a clinical pathologist (CP) with the following characteristics:

1. A. Knowing the science and technology of the clinical laboratory medicine (clinical chemistry, clinical hematology, microbiology, clinical immunology and parasitology).

1. B. Applying the analytical methodology in (clinical chemistry, clinical hematology, microbiology, clinical immunology, parasitology and medical statistics).

1. C. Mastering the performance of laboratory skills using available resources.

1. D. Determining the professional problems and new concepts in the field of clinical pathology and propose suitable solutions of these problems.

1. E. Applying specialized knowledge related to clinical pathology and integrate it with related knowledge in other medical science.

1. F. able to applicate the principle and methodology of scientific research and use various tools.

1. G. capable to communicate effectively and lead work team and make decision in various professional problems in clinical pathology.

1. H. knowing the role of community development and environmental preservation following the regional and global changes.

1. I. capable of continues medical and practical education and continues self development.

1. J. Following ethical code of practice and reflect integrity and sincerity.

3. Program Structure (Curriculum)

Requirement Category/Type	Number of Courses	Number of Credit Hours/Points	Percentage from the total number of hours/points
University Requirements	6	46 hours. 1 st part: one semester (15 weeks) - 10 h 2 nd part: three semesters (45 weeks) Thesis ; 6h	1 st part: 10 h 2 nd part: 30h Thesis ; 6h
Faculty/College Requirements (if applicable)			
Program Requirements			
Requirements of the majors/divisions/tracks/specializations in the final year (if any)	2	30	

Other requirements	Field Training	logbook		
	Graduation Project			
	Mandatory training year			
	Other (to be mentioned)	Thesis: 6h Conference and workshops attendance	6	
Total Compulsory Courses		6	46 h	
Elective Courses		–		
Total				

- Program Components

- Program courses according to the expected study plan

Academic Level	Semester	Course Code	Course Title	Course Type (Compulsory / Elective)	Requirement Category/ Type	Number of Credit Hours/ Points	Number of Weekly Hours		
							Theoretical teaching	Practical training	Other
الاول	فصل دراسي اول	CPAT 601	Clinical Microbiology	اجباري	تخصص	3	2	1	
الاول	فصل دراسي اول	CPAT 602	Parasitology	اجباري	تخصص	2	1	1	
الاول	فصل دراسي اول	CPAT 603	Clinical Immunology	اجباري	تخصص	3	2	1	
الاول	فصل دراسي اول	CPAT 604	Medical statistics	اجباري	تخصص	2	2		
الثاني	فصل دراسي ثاني	CPAT 605	Clinical Chemistry	اجباري	تخصص	15	8	7	

Academic Level	Semester	Course Code	Course Title	Course Type (Compulsory / Elective)	Requirement Category/ Type	Number of Credit Hours/ Points	Number of Weekly Hours		
							Theoretical teaching	Practical training	Other
الثاني	فصل دراسي ثاني	CPAT 606	Clinical Hematology	اجباري	تخصص	15	8	7	

4. Academic Standards

- **Adopted Academic Standards (NARS/ARS): ARS**
 * When adopting ARS: The matrix of the academic reference standards (ARS) with the national academic reference standards (NARS) must be attached
- **Date of Adoption of Standards in the governing Council: 5/1/2009**
 * Decision/Minutes of the governing Council to be attached

5. Matrix of Academic Standards (Program Outcomes POs) with Courses

Compulsory Courses (Name and code)	Academic Standards (Mention code only)												
	المعرفة والفهم												
Clinical Microbiology - CPAT 601						2.1.1	2.1.2	2.1.3	2.1.4	2.1.5	2.1.6		
Parasitology- CPAT 602						√						2.1.1	المعرفة والفهم
Clinical Immunology - CPAT 603							√					2.1.2	

Compulsory Courses (Name and code)	Academic Standards (Mention code only)												
	المعرفة والفهم												
Medical statistics - CPAT 604								√				2.1.3	
Clinical Chemistry - CPAT 605									√			2.1.4	
Clinical Hematology - CPAT 606										√		2.1.5	
											√	2.1.6	
	المهارات الذهنية												
				2.2.1	2.2.2	2.2.3	2.2.4	2.2.5	2.2.6	2.2.7	2.2.8	2.2.9	
			√										2.2.1
				√									2.2.2
					√								2.2.3
						√							2.2.4
							√						2.2.5
								√					2.2.6
									√				2.2.7
	المهارات العامة والمتنقلة												
					2.4.1	2.4.2	2.4.3	2.4.4	2.4.5	2.4.6	2.4.7	2.4.8	
					√								2.4.1
						√							2.4.2
							√						2.4.3
								√					2.4.4
									√				2.4.5
										√			2.4.6
											√		2.4.7
												√	2.4.8

- Identification is done for each major/division/track/specialty in the final year (if any)
- Attach a separate matrix of elective courses (if any)

6. Teaching and Learning strategies/methods to achieve Program Outcomes:

- 1- استراتيجيات التعلم النشط
- 2- استراتيجيات التعليم المبني على النتائج

3-.....استراتيجية التعليم عن بعد

1.

7. Student Assessment strategies/methods to verify and ensure students' acquisition of Program Outcomes:

ما نقيسه من مخرجات التعلم المستهدفة	الطريقة	م
To assess knowledge & intellectual skills: 2.a.1.....2.a.10., 2.b.1.....2.b.10.	Written examination (including case study)	1
To assess knowledge, intellectual skills & General & transferable skills:	Oral examination	2
To assess knowledge, intellectual skills & General & transferable skills, practical & clinical skills: 2.b.1.....2.b.10.	Practical & clinical examination	3
To assess knowledge, intellectual skills & General & transferable skills, practical & clinical skills: 2.b.1.....2.b.10. 2.a.1.....2.a.9. 2.c.1.....2.c.9.	Thesis	4
7		

8. Program Key Performance Indicators (if any)

No.	Performance Indicator	Target Level	Method	Measurement
1.				
2.				
3.				

Name & Signature
Program Coordinator

Prof. Dr. Eman Ramadan

Name & Signature
Vice Dean for Education and Student Affairs

Prof. Dr. Azza Ahmed Abo Senna