

**Biochemistry II course report
2024-2025**

1. Basic Information:

Course title:	Biochemistry I		
Course code:	1203		
Department:	Department Of Biochemistry		
Program on which the course is given:	Bachelor of medicine and surgery (MBBCh)		
Faculty:	Faculty of Medicine		
University:	University of Benghazi		
Academic level:	phase: 1	year: 1	Year: 2024-2025
Prerequisite:	Premedical courses		
contact hours:	Lecture: 104	Practical: 20	Total: 124
System applied to choose exam committee: Internal and external examiners are nominated by department council and approved by Faculty council			
External evaluation of the exam:		Applied	√ Not applied
No. of staff members delivering the course:	9		
Approval date:	2025		

2. Specialized Information:

2.1. Statistics:

		First round examination			
1.	Total number of students targeted for the exam	834			
2.	Number of Absentees	160			
3.	Number of Attendees	674			
4.	Number of Passed Students	373			
5.	Number of Failed Students	301			
6.	Results %:	44.7 %			
4.	Grading of students completing the course:				
	Excellent	V. Good	Good	Pass	Fail
	53	73	141	106	641

Second round examination				
1.	Total number of students targeted for the exam	461		
2.	Number of Absentees	152		
3.	Number of Attendees	309		
4.	Number of Passed Students	109		
5.	Number of Failed Students	352		
6.	Results %:	24%		
7.	Grading of students completing the course:			
	Excellent	V. Good	Good	Pass
	0	1	29	79
				352

2.2. Course teaching:

2.2.1. Lectures:

module No.	Topic	No. of hours
1	Bioenergetics and oxidative phosphorylation	5
2	Carbohydrate metabolism	21
3	Amino acid metabolism	24
Mid-term exam		
4	Lipid metabolism	26
5	Integration of metabolism	6
6	Hormonal biosignaling	6
7	Nucleotide metabolism	8
8	Gene expression and molecular biology	16
9	Heme metabolism	8
10	Xenobiotic metabolism	4
Final Exam		

2.2.2. Practical/Tutorial:

1	Estimation of blood glucose	2
2	Estimation of blood urea nitrogen	2
3	Estimation of serum creatinine	2
4	Estimation of total cholesterol	2
5	Estimation of HDL- cholesterol	2
6	Estimation of LDL- cholesterol	2
7	Estimation of serum triglyceride	2
8	Estimation of uric acid	2
9	Estimation of serum bilirubin	2
10	PCR	2

2.2.3. % of Actually given course content:

	100%	√	95 - <100		85 - <95		75 - <85		<75
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2.2.4. Degree of fulfillment of staff members of the course content:

	100%	√	95 - <100		85 - <95		75 - <85		<75
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2.2.5. % of Contents covered in the exam:

√	100%		95 - <100		85 - <95		75 - <85		<75
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2.2.6. Teaching and learning methods:

2.2.6.1.	Lecture
2.2.6.2.	practical

2.2.7. Student assessment:

	Methods of Evaluation	Percentage (%)	Date of Evaluation	
First round examination				
1	Mid-Term Exam	20%	January 2025	NOTE
2	Final-Term Exam	50 %	May 2025	
3	Final Practical Exam	20 %	May 2025	5degree report + 5degree activity (2 TBL) 20 lab exam
4	Final Oral Exam	10%	May 2025	
	Total	100%		
Second round examination				
1	Final-Term Exam	70%	July 2025	
2	Final Practical Exam	20%	July 2025	
3	Final Oral Exam	10%	July 2025	
	Total	100%		

3. Teaching resources:

3.1. Scientific references:							
√	available		available to some extent		not available		
3.2. Helping tools:							
√	available		available to some extent		not available		
3.3. Laboratories and practical resources:							
	available	√	available to some extent		not available		not applicable
3.4. IT facilities:							
	available		available to some extent	√	not available		

4. Inadequacies and administrative constraints:

4.1.	<ul style="list-style-type: none"> Inadequate biochemical kits for labs due to large number of students
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5. Students' evaluation:

5.1.	Course contents	4.1
5.2.	CLOs	3.8
5.3.	Lectures and Learning facilities	3.9
5.4.	Staff Member	4.1
Total		15.9
5.5. Student Comments (if any):		

6. Comments of external examiners (if any):

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7. Suggestions for course enhancement:

Due to ongoing maintenance at the Faculty of Medicine and the temporary unavailability of laboratory facilities, practical sessions will be conducted through pre-recorded videos prepared by faculty members.

8. Achieved and non-achieved actions from previous year:

	Action required in order of priority	Person responsible	achieved	non-achieved
1.	PCR training (practical application) for second-year medical students	Course Instructor		√

1. Reasons of non-achieved actions:

- PCR training (practical application) for second-year medical students was not achieved due to limited PCR equipment, overcrowded laboratories, and insufficient trained technical staff.

2. Action plan:

Action plan for next academic year

No.	Action required in order of priority	Person responsible	Completion date	Strategy / Notes
1	Implement PCR training (practical application) for second-year medical students	Head of Department and teaching staff	End of academic year	Provide additional PCR machines and reagents, organize students into smaller groups, and assign trained technical staff to support practical sessions

	Name	Signature
Course Instructor:	Dr. Sara Shoaib Boawena	
Course Coordinator:	Dr. Ibtisam Kazairi	
Head of Department:	Dr. Salima Hawda	
Approval Date	2/10/2025	