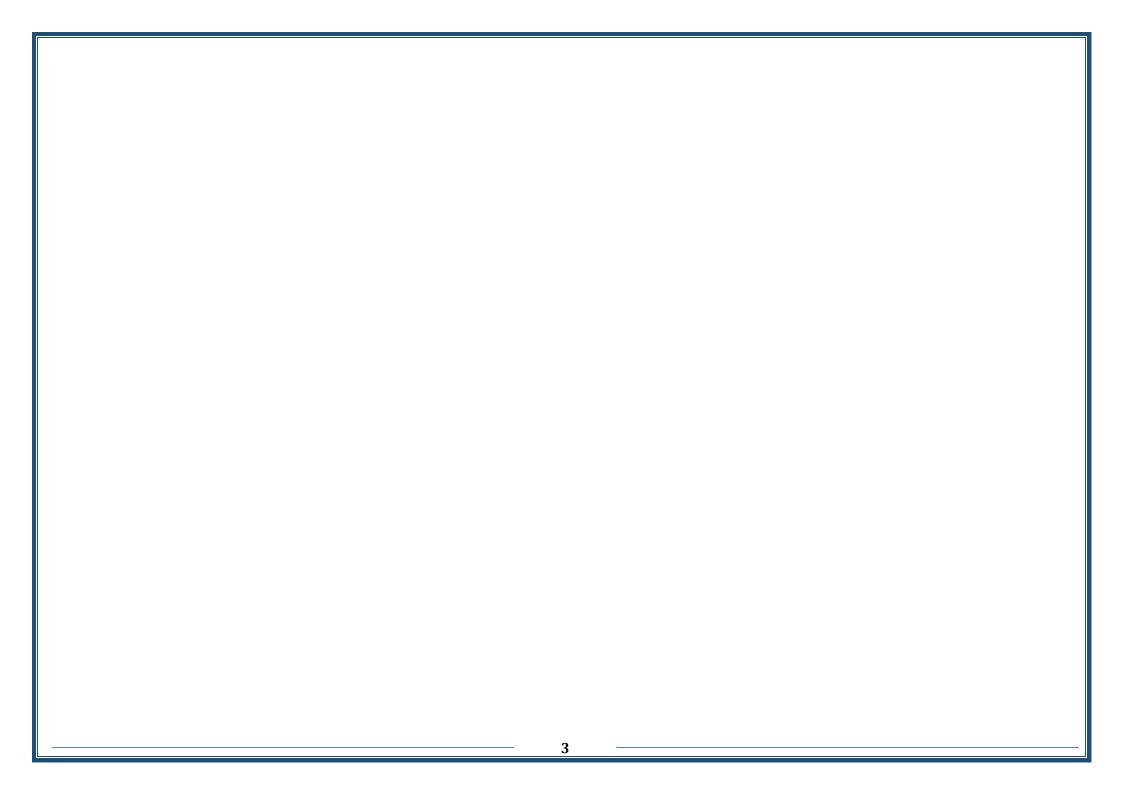
Ministry of Higher Education and Scientific Research Scientific Supervision and Scientific Evaluation Apparatus Directorate of Quality Assurance and Academic Accreditation Accreditation Department



## Academic Program and Course Description Guide



## **Course Description Form**

1. Course l	1. Course Name:					
Biochemistr	Biochemistry					
2. Course	2. Course Code:					
CHM 102						
3. Semeste	3. Semester / Year:					
Semeste	Semester					
4. Description Preparation Date:						
7.78 /.7 /8	T.TE /.T /E					
5. Availabl	le Attendance Forms:					
Attende	ency only					
6. Number	of Credit Hours (Total) / Number of	Units (Total)				
3 hours THEORY and 2 hours LAB in week / 4 UNITS						
7. Course	7. Course administrator's name (mention all, if more than one name)					
	Mosa Jaafar Mosa					
Email: <u>n</u>	nosajaafar89@gmail.com					
8. Course	Objectives					
After successfu	ally completion of the course the	•				
students wil	ll be able to :	•				
	ts, properties, and classification.	•				
	nemical changes of nutrients and its					
_	eathway in human body.					
	mportant body constituents and their					
	chemical changes in the laboratory.					
	ne biochemical functions of different					
human organs in normal and abnormal conditions Understand the human biochemical reactions in						
normal situation and in case of diseases.						
Use laboratory methods for monitoring biochemical						
reactions in biological samples.						
Handle the laboratory equipment properly.						
9. Teaching and Learning Strategies						
Strategy						
	1. Brainstorming education strategy.					
	2. Education Strategy Lecture Series					
	3. Education strategy field visits					

## 10. Course Structure

Week	Hours	Required Learning	Unit or	Learning	Evaluation
		Outcomes	subject	method	method
			name		
1		Chemistry of Carbohydra	biochemist		
2		, Definition,Classificati		and L	monthly and
		and Chemical properties		lectures using	quarterly theoretical
		Metabolism		educationa	
3		Carbohydrates.		methods	2. Daily
		Glycogenesis, Glycogenoly		classrooms	•
4		and Glycolysis.		as well practical	evaluation of students'
_		Krebs Cycle, Metabo			performance.
5		disorder of carbohydra		education	3. Practical
		metabolism and Diabe			exam in the
6		mellitus. Chemistery of Lipi			hospital.
7		Chemistery of Lip ,Definition,Classification			4. Evaluation of seminars
′		and Chemical properti			presented by
8		Cholesterol, Bile acids, a			students.
		bile salts.			5.Homew
		Lipids Metabolism, Fa			and wee reports.
9		acid oxidati			reports.
		ATPproduction,			
		Digestion and absorption			
10		lipids			
		Metabolic disorder of lip			
11		metabolism, Ketogene			
		and Fatty liver			
		Chemistery of amino ac			
		and proteins ,Classificati			
4.0		and Some properties			
12		proteins. Proti			
		metabolism,			
		Disorder of prote metabolism and bo			
		protiens Non prote			
13		compounds ,Ammonia a			
13		Uric acid synthesis			
		Renal function, Blood un			
		formation cycle a			

14	Creatinine				
	Chemistry of Enzym				
	,Definition ,Inhibition a				
	Coenzyme.				
	Activity of Enzyme				
15	Classification a				
	properties of enzymes.				
	Plasma Enzymes, Amyla				
	and Lactate dehydrogena				
	Liver enzymes				
	General examination				
	urine.				
11. Course	11. Course Evaluation				
	Distributing the score out of 100 according to the tasks assigned to the student such as				
	n, daily oral, monthly, or written exams	s, reports etc			
12. Learning	g and Teaching Resources				
Required textboo	ks (curricular books, if any)	Jacob Anthikad, Nutrition and			
	,	Biochemistry for Nurses, 1 <sup>st</sup>			
		Ed., 2009.			
Main references	(sources)	eshwar, Medical Biochemistry			
		for Nurses, 2 <sup>nd</sup> Ed., 2008			
Recommended	books and references (scientific	MN chatterjea and Rana Shinde			
journals, reports)		, textbook of medical			
,		biochemistry, 4 <sup>th</sup> Ed. 2000			
Electronic Refere	ences, Websites	Pamela C.Champe, Richard			
		A.Harvey. Biochemistry			
		(Lippencott's illustrated			
		reviews ) 4th ED. 2008.			