

نموذج رقم (١٢)

جامعة: Mansoura

كلية: Nursing

قسم: Psychiatric and Mental Health Nursing

توصيف مقرر دراسي

١- بيانات المقرر		
1 st level (1 st semester)	الفرقة/المستوى:	Biochemistry كيمياء حيوية
1 credit hour Laboratory	اسم المقرر:	MSc 104
1 credit hour	نظري عدد الساعات الدراسية: عملي	B.Sc. in Nursing
		الرمز الكودي: التخصص:

This course aims to provide students with basic knowledge about structures, classifications of carbohydrates, lipids, proteins, vitamins, enzymes and hormones. In addition to the regulatory mechanisms of metabolic pathway.	٢- هدف المقرر:
٣- المستهدف من تدريس المقرر :	
A1. Define the structure, function and metabolic pathways of carbohydrates, lipids, proteins, nucleotides and their micro-molecules and their regulatory mechanisms. A2. Point out the functions of hormones and micronutrients, their biochemical, clinical and laboratory importance and deficiency manifestations of each A3. Illustrate the mode of action and kinetics of enzymes and their role in the diagnosis of diseases. A4. Describe the mode of actions and kinetics of enzymes A5. Illustrates the structure of vitamins as coenzymes A6. Mention the steps and regulatory mechanisms of metabolic pathway A7. Describe the components urine and human milk	أ- المعلومات والمفاهيم:
B1. Interpret symptoms, signs and biochemical laboratory findings of	ب- المهارات الذهنية الخاصة بالمقرر:

<p>vitamins deficiency diseases</p> <p>B2. Interpret the clinical significance of determination of plasma levels of glucose, total proteins, SGOT, SGPT, bilirubin, albumin, cholesterol, triglyceride, creatinine and uric acid</p> <p>B3. Differentiates between normal and abnormal biochemical parameters investigations</p> <p>B4. Diagnose the type of abnormality of pathological glucose tolerance curve</p>	
<p>C1. Identify laboratory reagents and instruments used in biochemistry laboratory</p> <p>C2. Identify the physiological variations of physical and chemical characters of of normal urine and performing chemical tests to detect abnormal constituents of urine.</p> <p>C3. Demonstrate colorimetric estimation of some blood parametars (serum levels of glucose, total proteins, albumin, bilirubin, GPT, GOT, alkaline phosphatase, cholesterol, TG, creatinine and uric acid).</p>	<p>ج- المهارات المهنية الخاصة بالمقرر:</p>
<p>D1. Presents information accurately and clearly in written, electronically and oral forms</p> <p>D2. Display biochemical results in meaningful context</p> <p>D3. Summarize a report on the biochemical assays results</p>	<p>د- المهارات العامة:</p>
<p>E1. Apply the principles of ethics in daily professional activities</p>	
<p>Unit I: Carbohydrates chemistry</p> <p>Unit II: Lipids and proteins</p> <p>Unit III: Enzymes</p> <p>Unit IV: Vitamins</p> <p>Unit V: Hormones</p> <p>Unit VI: Regulatory mechanisms of metabolic pathway</p> <p>Unit VII: Endocrines</p>	<p>٤- محتوى المقرر:</p>

1- Interactive Lectures 2- Laboratory training	٥- أساليب التعليم والتعلم :
Not applicable	٦- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة :
	٧- تقويم الطلاب:
1. Semester summative assessment that include: a- Performance at biochemistry lab b- Written semester examination 2. Summative assessment that include a- Final written examination b- Practical examination	أ- الأساليب المستخدمة:
1. Semester summative assessment a- Laboratory performance c- Semester written exam	ب- التوقيت:
2 nd up to 13 th week	
5 th week and 10 th week	
2. Final Summative assessment a- Final written examination b- Practical examination	
1-Semester summative assessment a- Laboratory performance b- Semester written exam 2- Final Summative assessment a- Written examination b- Practical examination Total	ج- توزيع الدرجات: 200 (100%)
٨- قائمة الكتب الدراسية والمراجع :	

-	أ- مذكرات
-	ب- كتب ملزمة:
<ul style="list-style-type: none"> • Todd A Swanson, Sandra I Kim, and Marc J Glucksman Underground Clinical Vignettes Step 1: Biochemistry (Paperback - Apr 1 2007) • Paul Engel: Pain-Free Biochemistry: An Essential Guide for the Health Sciences.2010 • A Textbook of Biochemistry with Clinical Correlation's by T.M. Devlin, published by Wiley- Less 2009 	ج- كتب مقترحه:
<ul style="list-style-type: none"> • http://wiki.answers.com/Q/What_is_the_significance_of_biochemistry_in_nursing • http://science.csustan.edu/stone/2090/042090.htm 	د- دوريات علمية أو نشرات .. الخ

Dr. Warda El shahat Hamed

أستاذ المادة:

: Prof. Dr. Amany Mohammed Shebl

رئيس مجلس القسم العلمي: