نموذج رقم (12)

جامعة: Mansoura

كلية: Nursing

قسم: Psychiatric and Mental Health Nursing

توصيف مقرر دراسي

		1- بيانات المقرر
الفرقة/المستوى: First level of B.Sc.N Program (1st semester) 2018/ 2019	**اسم المقرر:** Biochemistry الكيمياء الحيوية	**الرمز الكودى:** MSc 104
عدد الساعات الدراسية (Credit Hour) نظري 1 Hour عملي 1 Hour	**التخصص:** B.Sc.N Program	

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.	**2- هدف المقرر:**

3- المستهدف من تدريس المقرر :	

By the end of the program the candidate will be able to: A1. Recognize the structure, function and metabolic pathways of carbohydrates, lipids, proteins, nucleotides and their micro-molecules and their regulatory mechanisms. A2. Mention the functions of hormones and micronutrients, their biochemical, clinical and laboratory importance and deficiency manifestations of each A3. Identify the mode of action and kinetics of enzymes and their role in the diagnosis of diseases. A4. Identify the mode of actions and kinetics of enzymes A5. Discuss the structure of vitamins as coenzymes A6. Mention the steps and regulatory mechanisms of metabolic pathway A7. Discuss the components urine and human milk	**أـ المعلومات والمفاهيم:**
By the end of the program the candidate will be able to: B.1 Interpret symptoms, signs and biochemical laboratory findings of vitamins	**بـ المهارات الذهنية**

deficiency diseases	الخاصة بالمقرر:
B.2 Analyze the clinical significance of determination of plasma levels of glucose, total proteins, SGOT, SGPT, bilirubin, albumin, cholesterol, TG, creatinine and uric acid	
B.3 Differentiate between normal and abnormal biochemical parameters investigations	
B.4 Judge the type of abnormality of pathological glucose tolerance curve	
By the end of the program the candidate will be able to:	
C1. Handle laboratory reagents and instruments used in biochemistry laboratory	ج- المهارات المهنية الخاصة بالمقرر:
C2. Examine the physiological variations of physical and chemical characters of normal urine and performing chemical tests to detect abnormal constituents of urine.	
C3. Conduct colorimetric estimation of some blood parameters (serum levels of glucose, total proteins, albumin, bilirubin, GPT, GOT, alkaline phosphatase, cholesterol, TG, creatinine and uric acid).	
By the end of the program the candidate will be able to:	
D1. Present information accurately and clearly in written, electronically and oral forms	د- المهارات العامة:
D2. Present biochemical results in meaningful context	
D3. Evaluate a report on the biochemical assays results	
E1. Acts as a role model and mentor for less experienced nursing care providers and nursing students in applying the principles of ethics in daily professional activities	
Unit I: Carbohydrates chemistry	4- محتوى المقرر:
Unit II: Lipids and proteins	
Unit III: Enzymes	
Unit IV: Vitamins	
Unit V: Hormones	
Unit VI: Regulatory mechanisms of metabolic pathway	

Unit VII: Endocrines	
1- Interactive Lectures: Interactive lecture is used in this course, it used to present the included content with a variety of questions, and brainstorming to obtain students' ideas and opinions interactions. Visual power point presentations are illustrated. **2- Small group work:** Students divided into small groups of 10-12 students who assigned to investigate case studies that include biochemical issues, and conclude a report.	**5- أساليب التعليم والتعلم :**
According to the faculty procedures to caring for defaulters students	**6- أساليب التعليم والتعلم للطلاب ذوى القدرات المحدودة :**
	7- تقويم الطلاب:
1- Semester summative assessment that include: a- Assignment report: Assignment report of this course to include the interpretation of lab investigation results of biochemical parameters. b- Quizzes **2- Summative assessment that include:** a- Written examination b- Practical examination	**أ- الأساليب المستخدمة:**
1- Semester summative assessment a- Assignment report 2nd up to 13th week c- Quizzes 5th week and 10th week **2- Final Summative assessment** a- Written examination Two weeks after the end of 1st semester b- Practical examination Two weeks before the end of 1st semester	**ب- التوقيت:**

1-Semester summative assessment	**Degree**
a- Assignment report	40 (20%)
b- Quizzes	20 (10%)
2- Final Summative assessment	
a- Practical examination	40 (20%)
b- Final Written examination	100 (50%)
Total	**200 (100%)**

ج- توزيع الدرجات:

8- قائمة الكتب الدراسية والمراجع :

أ- مذكرات

ب- كتب ملزمة:

ج- كتب مقترحه:

- A Textbook of Biochemistry with Clinical Correlation's by T.M. Devlin, published by Wiley- Less 2017

- Todd A Swanson, Sandra I Kim, and Marc J Glucksman Underground Clinical Vignettes Step 1: Biochemistry (Paperback - Apr 1 2015)

- Paul Engel: Pain-Free Biochemistry: An Essential Guide for the Health Sciences.2016

د- دوريات علمية أو نشرات .. الخ

http://wiki.answers.com/Q/What_is_the_significance_of_biochemistry_in_nursing

http://science.csustan.edu/stone/2090/042090.htm

معتمد بموافقه مجلس الكلية	مجلس رقم (134) بتاريخ 2014/6/18
تم مراجعته وتحديثه طبقا للمعايير الاكاديميه القوميه المرجعيه بتاريخ	مجلس القسم بتاريخ 2018/11/5
رئيس القسم العلمي أ.د/ امينه النمر	منسق المقرر د/ محمد زرمبه