


Sub.	Course Description – توصيف مقرر دراسي – الموضوع	الموضوع	 كلية المعرفة ALMAAREFA COLLEGE
Date		التاريخ	

Course Code & No	RSTH ٣٣٠	تنفسي ٣٣٠	رقم المقرر ورمزه
Course Name	CARDIOLOGY and ECG	طب وتخطيط القلب	اسم المقرر
Credit Hours	٤ (3+1)	٤ (3+1)	عدد الساعات المعتمدة
Pre-requisite	RSTH 325 Diagnostic Techniques	تقنيات التشخيص (تنفسي) (٣٢٥)	المتطلب السابق

General Description	توصيف عام
<p>This course will provide a comprehensive introduction to diseases of the cardiovascular system. Emphasis will be placed on the basic mechanisms by which cardiac illnesses develop assessment of cardiac illnesses and basic modalities of care and treatments used for such illnesses. Also, the student will be provided a comprehensive introduction to basic ECG rhythm and 12-lead interpretation along with advanced cardiac life support modalities /pharmacology.</p>	

Course Objectives	أهداف المقرر
<ol style="list-style-type: none"> 1. Review cardiac gross anatomy & physiology 2. Identify and discuss the basic components of the cardiac cycle 3. Define resting and action potential while describing the phases included in their function 4. Be able to describe cardiac output as a function of stroke volume and heart rate 5. Discuss heart sounds 6. Discuss the role cardiac catheterization play in diagnosing cardiovascular abnormalities 7. Understand the basic components of an electrocardiogram 8. Describe the etiology of altered impulse formation and conduction of certain dysrhythmias 9. Define Hypertension, essential hypertension, and secondary hypertension 10. List and explain potential consequences of ischemia 	

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11. Discuss the pathogenesis of acute coronary syndromes 12. Describe the pathophysiology of a myocardial infarction 13. Explain the pathophysiology of heart failure 14. Describe certain congenital cardiac anomalies	
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Course Outlines	مفردات المقرر
Review of cardiac anatomy Cardiac electrophysiology Understanding cardiac function Cardiac diagnostics. ECG review, dysrhythmias, Hypertension, Atherosclerosis and ischemia Acute coronary syndromes Heart failure. valvular disease Diseases of the pericardium and peripheral vasculature Congenital heart disease	

References	المراجع
Required Text(s) Lilly, L. Pathophysiology of Heart Disease: A Collaborative Project of Medical Students and Faculty, 4 th edition, Lippincott Williams & Wilkins, 2010	