Course Title	**Cardiothoracic and Vascular Surgery**				
Course Code	MD435				
Course Type	Clinical Elective				
Level	1st Cycle (MD)				
Year / Semester	4th Year - 8th Semester 5th Year 9th Semester / 10th Semester				
Teacher's Name	TBA				
ECTS	3	Lectures / week	1 / 16 weeks	Clinical rotation / week	0 / 16 weeks
Course Purpose and Objectives	Cardiothoracic and vascular surgery are specialized topics following education in general surgery. They are comprised of amphitheater lectures, laboratory skills training, problem based learning modules and hospital clinical training. This course aims to introduce students to the concept of cardiothoracic and vascular surgery and related conditions.				
Learning Outcomes	Upon successful completion of this course students should be able to: • Identify the most frequently encountered pathologies necessitating cardiothoracic intervention • Be able to diagnose situations associated with cardiothoracic surgery. • Be familiar with commonest laboratory and radiologic exams in cardiothoracic patients • Understand principles of cardiothoracic interventions and techniques • Have an understanding of pathophysiological mechanism involved in vascular disease • Diagnose most frequent vascular surgery conditions • Be able to differentially diagnose between vascular surgery and other general surgery conditions • Understand indications, expected results and possible complications of vascular surgery. • Interpret simple diagnostic and radiologic tests associated with vascular diseases.				
Prerequisites	None	Co-requisites	None		
Course Content	• Pathophysiology of lung and heart diseases, including commonest predisposing factors. • Clinical examination of cardiothoracic surgery patient – Commonest laboratory and radiologic examinations				

	• Congenital heart & lung disorders • Heart & lung trauma • Lung cancer • Tracheal diseases • Primary coronary artery bypass • Heart valves diseases • Ascending aorta and aortic arch aneurysms • Pericardial diseases • Heart & lung transplation • Pathophysiology of arterial diseases, including commonest predisposing factors. • Clinical examination of vascular surgery patient – Commonest laboratory and radiologic examinations • Congenital diseases of the vasculature • Vascular trauma • Lower limb ischemia, acute and chronic – Diabetic foot • Carotid artery diseases • Abdominal aorta aneurysm • Thoracic aorta aneurysm – Other visceral arteries aneurysms • Vascular diseases of the upper limb • Mesenteric & renal vascular diseases • Venous & lymphatic diseases • Surgical interventions in vascular surgery – Abdominal aorta repair, carotid endarterectomy, lower limb vascular surgery • Endovascular surgery
Teaching Methodology	Face-to-face, Lectures, Practical exercises
Bibliography	John Hopkins Textbook of cardiothoracic Surgery, Publisher: McGraw-Hill Education / Medical; ISBN-10: 0071663509 Oxford textbook of vascular surgery Publisher: Oxford University Press; ISBN-10: 0199658226
Assessment	Examinations: 70% Clinical Skills/Assignment/Lab 20% Class Participation: 10%
Language	English