

Course title	Clinical Specialties: Cardiology and Respiratory (Cardiology, Cardiothoracic and Vascular Surgery; Respiratory Medicine, Thoracic Surgery)			
Course code	GEMD-401			
Course type	Required			
Level	Undergraduate			
Year / Semester	Year 4 / Semester 7/8 (rotation)			
Teacher's name	Course Leads: TBA			
ECTS	60	Teaching Periods per Week		
		Large Group Learning	Small Group Learning	Clinical Practice
		6	2	30
Course purpose and objectives	<p>The main objectives of the last two years of the five-year medical course are to provide students with extensive experience in the clinical environment, mainly in hospitals but also in the community, so that they can utilise their learning over the previous three years to practise their clinical, communication, diagnostic and reasoning skills on real patients, and to learn about the management of patients, from a medical, therapeutic, surgical, psychosocial and caring perspective.</p> <p>In this course, students will spend five weeks working primarily with patients with heart conditions and respiratory & breast diseases. They will develop an understanding of the presentation, signs and symptoms, physical examination findings, investigations, diagnosis, treatment (medical and/or surgical as appropriate) and management plan for common cardiovascular and respiratory diseases.</p> <p>The students will learn how to take detailed histories from, carry out systematic clinical examination of, and interpret laboratory and imaging data on patients with disorders of the cardiovascular and respiratory systems. They will also spend time in theatre observing cardiothoracic surgery.</p>			
Learning outcomes	<p>By the end of the course, the students should be able to:</p> <ol style="list-style-type: none"> 1. take a focused history from a patient, or relative of a patient, presenting with a cardiovascular, respiratory or breast condition, in a sensitive and caring manner. 2. carry out a sensitive physical examination as part of investigation of the presenting complaint. 3. discuss a differential diagnosis for the presenting complaint. 4. apply their knowledge of basic and clinical science to identify and explain appropriate investigations, including sputum, blood and urine tests, peak flow, imaging, fine needle aspiration, and biopsy, to assist in the diagnosis of the presenting complaint and to interpret the results from such tests. 			

	<p>5. prepare and explain a treatment management plan for the patient to present to the responsible clinician to include medical, pharmacological, surgical options as appropriate.</p> <p>6. observe, and where appropriate carry out or assist with, medical and surgical procedures relating to patients with cardiovascular and respiratory conditions, planned and opportunistic.</p> <p>7. Prescribe medications to treat patients with cardiovascular and respiratory diseases and make appropriate therapeutic/management decisions.</p>																																		
Prerequisites	None	Required	None																																
Course content	<p>Common presentations affecting the cardiovascular, respiratory and breast systems including:</p> <ul style="list-style-type: none"> ○ Hypertension ○ Arrhythmias ○ Valvular heart disease ○ Myocardial ischemia and infarction ○ Shock ○ Chest infections ○ Asthma and other lung disorders ○ Respiratory failure ○ Lung and breast cancer ○ Benign breast disorders 																																		
Teaching Methodology	The course is delivered by clinical placements, lectures, tutorials, case studies and group discussions.																																		
Bibliography	<p>Required textbooks/reading</p> <table border="1"> <thead> <tr> <th>Authors</th> <th>Title</th> <th>Edition</th> <th>Publisher</th> <th>Year</th> <th>ISBN</th> </tr> </thead> <tbody> <tr> <td>Grech, Ever D.</td> <td>ABC of interventional cardiology</td> <td>1st</td> <td>Wiley-Blackwell</td> <td>2011</td> <td>9781405170673</td> </tr> <tr> <td>Davies, Andrew Moore Carl</td> <td>The respiratory system: basic science and clinical conditions</td> <td>2nd</td> <td>Churchill Livingstone</td> <td>2010</td> <td>9780702033704</td> </tr> <tr> <td>Zollinger, Robert Milton</td> <td>Zollinger's atlas of surgical operations.</td> <td>10th</td> <td>McGraw-Hill</td> <td>2021</td> <td>9780071797559</td> </tr> </tbody> </table> <p>Recommended textbooks/reading</p> <table border="1"> <thead> <tr> <th>Authors</th> <th>Title</th> <th>Edition</th> <th>Publisher</th> <th>Year</th> <th>ISBN</th> </tr> </thead> <tbody> </tbody> </table>					Authors	Title	Edition	Publisher	Year	ISBN	Grech, Ever D.	ABC of interventional cardiology	1st	Wiley-Blackwell	2011	9781405170673	Davies, Andrew Moore Carl	The respiratory system: basic science and clinical conditions	2nd	Churchill Livingstone	2010	9780702033704	Zollinger, Robert Milton	Zollinger's atlas of surgical operations.	10th	McGraw-Hill	2021	9780071797559	Authors	Title	Edition	Publisher	Year	ISBN
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	Herring N Paterson DJ.	Levick's introduction to cardiovascular physiology	6th	CRC Press	2018	9780815363613
	Bourke, S. J. Burns GP	Respiratory medicine (lecture notes)	9th	Wiley-Blackwell	2011	9781118652329
	Dixon JM	ABC of Breast Diseases	4th	Wiley	2012	9781444337969
	Joint Formulary Committee	https://bestpractice.bmj.com/drugs	Last one	BMJ Group and Pharmaceutical Press.	Current year	
	National Institute for Health and Clinical Excellence	https://www.nice.org.uk/guidance	Last one		Current year	
Assessment	End of year exam and end of year OSCE. The written assessment will be Single Best Answer MCQs and Short Answer Questions. Workplace based assessments will take place during the attachment.					
Language	English					