

<b>Course title</b>	<b>Circulation and Respiration</b>				
<b>Course code</b>	<b>GEMD-201</b>				
<b>Course type</b>	Required				
<b>Level</b>	Undergraduate				
<b>Year / Semester</b>	Year 2, Semester 3				
<b>Teacher's name</b>	Dr Evgenios Metaxas, Prof Panayiotis Avraamides				
<b>ECTS</b>	13	<b>Teaching Periods per Week</b>			
		<b>Large Group Learning</b>	<b>Small Group Learning</b>	<b>Laboratories &amp; Skills</b>	<b>Clinical Practice</b>
		6	6	5	6
<b>Course purpose and objectives</b>	<p>The aim of this course is to:</p> <ul style="list-style-type: none"> <li>• Provide the students with an understanding of the normal structure and function of the cardiovascular system and the respiratory system.</li> <li>• Introduce the students to the pathophysiology and pathology of various conditions affecting the cardiovascular and respiratory systems.</li> <li>• Provide the students with an understanding of the clinical manifestations of various cardiovascular and respiratory conditions.</li> <li>• Introduce the students to the investigative and therapeutic principles underlying the management of cardiovascular and respiratory conditions.</li> <li>• Develop the student's consultation skills and professional competencies in relationship to managing patients with cardiovascular and respiratory conditions.</li> </ul>				
<b>Learning outcomes</b>	Due to the nature of Problem Based Learning (PBL), the full list of objectives will be available at the end of each PBL week.				
<b>Prerequisites</b>	None	<b>Required</b>	None		
<b>Course content</b>	<ul style="list-style-type: none"> <li>• The normal structure and function of the cardiovascular and respiratory systems</li> <li>• The pathophysiology and pathology of various cardiovascular and respiratory conditions</li> <li>• The management of cardiovascular and respiratory conditions</li> <li>• The consultations skills and professional competencies required to deal with patients with cardiovascular and respiratory conditions</li> </ul>				

<p><b>Teaching methodology</b></p>	<p>Lectures – normally two face-to-face, two on-line p/week</p> <p>Tutorials – two case-based learning small group sessions, two expert-led class discussions/debates</p> <p>Flipped classroom activities</p> <p>Community and/or hospital visits each week, relating to the case of the week</p> <p>Student centred learning/self-study</p>																																																												
<p><b>Bibliography</b></p>	<p>Required textbooks/reading</p> <table border="1" data-bbox="472 566 1482 1453"> <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>John E. Hall, Michael E. Hall</td> <td>Guyton and Hall Textbook of Medical Physiology</td> <td>14<sup>th</sup> Edition</td> <td>Elsevier</td> <td>2021</td> <td>9780323597128</td> </tr> <tr> <td>Arthur F. Dalley II, Anne M. R. Agur.</td> <td>Moore's clinically oriented anatomy</td> <td>9<sup>th</sup> edition</td> <td>Wolters Kluwer</td> <td>2024</td> <td>9781975209544</td> </tr> <tr> <td>Vinay Kumar, Abul K. Abbas, Jon C. Aster, Andrea T Deyrup</td> <td>Robbins &amp; Kumar Basic Pathology</td> <td>11<sup>th</sup> edition</td> <td>Elsevier</td> <td>2023</td> <td>9780323790185</td> </tr> <tr> <td>James M. Ritter, Rod J. Flower, Graeme Henderson, Yoon Kong Loke, David MacEwan, Humphrey P. Rang</td> <td>Rang &amp; Dale's Pharmacology</td> <td>10<sup>th</sup> edition</td> <td>Elsevier</td> <td>2024</td> <td>9780323873956</td> </tr> </tbody> </table> <p>Recommended textbooks/reading</p> <table border="1" data-bbox="472 1525 1482 2016"> <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>Linda S. Costanzo</td> <td>BRS: Physiology</td> <td>8<sup>th</sup> edition</td> <td>Wolter</td> <td>2023</td> <td>9789387963467</td> </tr> <tr> <td>Lauralee Sherwood</td> <td>Human Physiology: from Cells to Systems</td> <td>9<sup>th</sup> Edition</td> <td>Brooks Cole</td> <td>2015</td> <td>9781285866932 (hardcover)</td> </tr> <tr> <td>Anthony Alfrey</td> <td>Rapid Review Pathology</td> <td>6<sup>th</sup> edition</td> <td>Elsevier</td> <td>2023</td> <td>9780323870573</td> </tr> <tr> <td>Hussain A. Sattar</td> <td>Fundamentals of Pathology: Medical</td> <td>2021 edition</td> <td>PATHOMA</td> <td>2021</td> <td>9781365764592</td> </tr> </tbody> </table>	Authors	Title	Edition	Publisher	Year	ISBN	John E. Hall, Michael E. Hall	Guyton and Hall Textbook of Medical Physiology	14 <sup>th</sup> Edition	Elsevier	2021	9780323597128	Arthur F. Dalley II, Anne M. R. Agur.	Moore's clinically oriented anatomy	9 <sup>th</sup> edition	Wolters Kluwer	2024	9781975209544	Vinay Kumar, Abul K. Abbas, Jon C. Aster, Andrea T Deyrup	Robbins & Kumar Basic Pathology	11 <sup>th</sup> edition	Elsevier	2023	9780323790185	James M. Ritter, Rod J. Flower, Graeme Henderson, Yoon Kong Loke, David MacEwan, Humphrey P. Rang	Rang & Dale's Pharmacology	10 <sup>th</sup> edition	Elsevier	2024	9780323873956	Authors	Title	Edition	Publisher	Year	ISBN	Linda S. Costanzo	BRS: Physiology	8 <sup>th</sup> edition	Wolter	2023	9789387963467	Lauralee Sherwood	Human Physiology: from Cells to Systems	9 <sup>th</sup> Edition	Brooks Cole	2015	9781285866932 (hardcover)	Anthony Alfrey	Rapid Review Pathology	6 <sup>th</sup> edition	Elsevier	2023	9780323870573	Hussain A. Sattar	Fundamentals of Pathology: Medical	2021 edition	PATHOMA	2021	9781365764592
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		Course and Step 1 Review				
	Kaplan Medical	Preclinical Pharmacology Review	2023 edition	Kaplan	2023	9781506284552
	Sarah Lerchenfeldt , Gary Rosenfeld	BRS: Pharmacology	7 <sup>th</sup> Edition	Wolters Kluwer Health	2020	9781975105495
	Kaplan Medical	Preclinical Anatomy Review	2023 edition	Kaplan	2023	9781506284279
<b>Assessment</b>	The course will be assessed at the end of Semester 3 with a Summative Final Examination consisting of Single Best Answer MCQs (SBAs) and Short Answer Questions (SAQs). Clinical and consultation skills will be assessed in an OSCE.					
<b>Language</b>	English					