

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

<p>Teaching methodology</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>Bibliography</p>	<p>Required textbooks/reading</p> <table border="1" data-bbox="475 568 1479 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>14th Edition</td> <td>Elsevier</td> <td>2021</td> <td>9780323597128</td> </tr> <tr> <td>Keith L. Moore, Arthur F. Dalley, Anne M. R. Agur</td> <td>Clinically oriented anatomy</td> <td>8th Edition</td> <td>Wolters Kluwer</td> <td>2017</td> <td>978-1496354044</td> </tr> <tr> <td>Vinay Kumar, Abul K. Abbas, Jon C. Aster</td> <td>Robbins Basic Pathology</td> <td>10th Edition</td> <td>Elsevier</td> <td>2017</td> <td>978-0323353175</td> </tr> <tr> <td>James M. Ritter, Rod J. Flower, Graeme Henderson, Yoon Kong Loke, David MacEwan, Humphrey P. Rang</td> <td>Rang & Dale's Pharmacology</td> <td>9th Edition</td> <td>Elsevier</td> <td>2019</td> <td>978-0702074486</td> </tr> </tbody> </table> <p>Recommended textbooks/reading</p> <table border="1" data-bbox="475 1525 1479 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>7th Edition</td> <td>Wolter</td> <td>2018</td> <td>978-9387963467</td> </tr> <tr> <td>Lauralee Sherwood</td> <td>Human Physiology: from Cells to Systems</td> <td>9th Edition</td> <td>Brooks Cole</td> <td>2015</td> <td>978-1285866932 (hardcover)</td> </tr> <tr> <td>Edward F Goljan</td> <td>Rapid Review Pathology</td> <td>5th Edition</td> <td>Elsevier</td> <td>2018</td> <td>978-0323476683</td> </tr> <tr> <td>Hussain A. Sattar</td> <td>Fundamentals of Pathology: Medical Course and</td> <td>2019 Edition</td> <td>PATHOMA</td> <td>2019</td> <td></td> </tr> </tbody> </table>	Authors	Title	Edition	Publisher	Year	ISBN	John E. Hall, Michael E. Hall	Guyton and Hall Textbook of Medical Physiology	14 th Edition	Elsevier	2021	9780323597128	Keith L. Moore, Arthur F. Dalley, Anne M. R. Agur	Clinically oriented anatomy	8 th Edition	Wolters Kluwer	2017	978-1496354044	Vinay Kumar, Abul K. Abbas, Jon C. Aster	Robbins Basic Pathology	10 th Edition	Elsevier	2017	978-0323353175	James M. Ritter, Rod J. Flower, Graeme Henderson, Yoon Kong Loke, David MacEwan, Humphrey P. Rang	Rang & Dale's Pharmacology	9 th Edition	Elsevier	2019	978-0702074486	Authors	Title	Edition	Publisher	Year	ISBN	Linda S. Costanzo	BRS: Physiology	7 th Edition	Wolter	2018	978-9387963467	Lauralee Sherwood	Human Physiology: from Cells to Systems	9 th Edition	Brooks Cole	2015	978-1285866932 (hardcover)	Edward F Goljan	Rapid Review Pathology	5 th Edition	Elsevier	2018	978-0323476683	Hussain A. Sattar	Fundamentals of Pathology: Medical Course and	2019 Edition	PATHOMA	2019	
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		Step 1 Review				
	Kaplan Medical	USMLE Step 1 Lecture Notes 2021: Pharmacology	2021 Edition	Kaplan	2020	978-1506272962 (for set of all topics)
	Sarah Lerchenfeldt, Gary Rosenfeld	BRS: Pharmacology	7 th Edition	Wolters Kluwer Health	2019	978-1975105495
	Kaplan Medical	USMLE Step 1 Lecture Notes 2021: Anatomy	2021 Edition	Kaplan	2021	978-1506259345
Assessment	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.					
Language	English					