

<b>Course title</b>	<b>Movement and Control</b>				
<b>Course code</b>	<b>GEMD-203</b>				
<b>Course type</b>	Required				
<b>Level</b>	Undergraduate				
<b>Year / Semester</b>	Year 2, Semester 3				
<b>Teacher's name</b>	Course Co-Leads: Prof. Theodoros Kyriakides and Prof. Joseph Joseph				
<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 structure and function of the nervous and musculoskeletal systems</li> <li>• Provide the students with an understanding of the pathology of neurological, inflammatory and non-inflammatory rheumatic diseases.</li> <li>• Introduce students to the principles of orthopaedics</li> <li>• Introduce the students to the characteristics, manifestations and investigation of neurological and rheumatic diseases</li> <li>• Introduce the students to the therapeutic and general management of autoimmune rheumatic conditions and neurological conditions</li> <li>• Develop the student's consultation and examination other skills and professional competencies in relationship to managing patients with chronic rheumatic diseases, neurological diseases and patients with trauma</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>• Structure and function of the musculoskeletal system</li> <li>• Introduction to orthopaedics and fractures</li> <li>• Pathology and immunology of rheumatic diseases</li> <li>• Clinical manifestations of rheumatic diseases and their management.</li> <li>• Consultation and examination skills when dealing with patients with rheumatic and orthopaedic conditions.</li> <li>• Structure and function of the central peripheral and autonomic nervous systems</li> <li>• Neurotransmission</li> <li>• Pathology of neurological disorders</li> </ul>				

	<ul style="list-style-type: none"> <li>• Clinical manifestations and management of neurological disorders</li> <li>• Consultation and examination skills when dealing with patients with neurological disorders</li> </ul>																																																
<b>Teaching methodology</b>	<p>Lectures – normally two face-to-face, two on-line per week</p> <p>Tutorials – two case-based learning small group sessions, two expert-led class discussions/debates</p> <p>Two Anatomy sessions per week</p> <p>Flipped classroom activities</p> <p>Community and/or hospital visits each week, relating to the case of the week as well as meeting ‘expert patients’</p> <p>Student centred learning/self-study</p>																																																
<b>Bibliography</b>	<p>Required textbooks/reading</p> <table border="1" data-bbox="472 801 1490 1626"> <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>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> <tr> <td>Umesh Vivekananda</td> <td>Crash Course Neurology</td> <td>5<sup>th</sup> edition</td> <td>Elsevier</td> <td>2019</td> <td>9780702073854</td> </tr> <tr> <td>Ross, Jenny</td> <td>Crash Course Nervous System</td> <td>4<sup>th</sup> Edition</td> <td>Elsevier</td> <td>2015</td> <td>9780723438571</td> </tr> <tr> <td>Paul Johns</td> <td>Clinical Neuroscience: an illustrated colour text</td> <td>1<sup>st</sup> edition</td> <td>Elsevier</td> <td>2014</td> <td>9781455742127</td> </tr> </tbody> </table> <p>Recommended textbooks/reading</p> <table border="1" data-bbox="472 1693 1490 1933"> <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>Geraint Fuller, Mark Manford</td> <td>Neurology: An Illustrated Colour Text</td> <td>3rd edition</td> <td>Churchill Livingstone</td> <td>2010</td> <td>9780702032240</td> </tr> <tr> <td>Catrin Page</td> <td>Crash Course Pharmacology</td> <td>5<sup>th</sup> edition</td> <td>Elsevier</td> <td>2019</td> <td>9780702073441</td> </tr> </tbody> </table>	Authors	Title	Edition	Publisher	Year	ISBN	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	Umesh Vivekananda	Crash Course Neurology	5 <sup>th</sup> edition	Elsevier	2019	9780702073854	Ross, Jenny	Crash Course Nervous System	4 <sup>th</sup> Edition	Elsevier	2015	9780723438571	Paul Johns	Clinical Neuroscience: an illustrated colour text	1 <sup>st</sup> edition	Elsevier	2014	9781455742127	Authors	Title	Edition	Publisher	Year	ISBN	Geraint Fuller, Mark Manford	Neurology: An Illustrated Colour Text	3rd edition	Churchill Livingstone	2010	9780702032240	Catrin Page	Crash Course Pharmacology	5 <sup>th</sup> edition	Elsevier	2019	9780702073441
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	Geraldine O'Dowd & Sarah Bell	Wheater's Functional Histology	7 <sup>th</sup> edition	Elsevier	2024	9780702083341
	Kenneth Lindsay, Ian Bone, Geraint Fulle	Neurology and Neurosurgery Illustrated	5 <sup>th</sup> edition	Elsevier	2010	9780443069789
	Batterbury, M., & Murphy, C	Ophthalmology: an illustrated colour text	4 <sup>th</sup> edition	Elsevier	2019	9780702075025
	Alan R. Crossman & David Neary	Neuroanatomy: an illustrated colour text	6 <sup>th</sup> edition	Elsevier	2020	9780702074622
<b>Assessment</b>	The course will be assessed at the end of Semester 4 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					