

<b>Course title</b>	<b>Clinical Practice: Internal Medicine</b>			
<b>Course code</b>	<b>GEMD-501</b>			
<b>Course type</b>	Required			
<b>Level</b>	Undergraduate			
<b>Year / Semester</b>	Year 5/ Semester 9/10 (rotation)			
<b>Teacher's name</b>	Course Lead: TBA			
<b>ECTS</b>	48	<b>Teaching Periods per Week</b>		
		<b>Large Group Learning</b>	<b>Small Group Learning</b>	<b>Clinical Practice</b>
		6	2	30
<b>Course purpose and objectives</b>	<p>The main objectives of the last two years of the five-year medical programme 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 six weeks working with patients who present with a medical problem across any sub-specialty of medicine. They will develop an understanding of the presentation, signs and symptoms, physical examination findings, investigations, diagnosis, treatment and management plan for a wide range of conditions.</p> <p>Students will be “on call” in the Emergency Room to receive and clerk patients. They will spend most of their time on wards and in outpatient clinics. They will try to follow their patients throughout their treatment to build up some continuity of care. They will take part in all ward activities, working alongside other doctors, nurses, physiotherapists, occupational therapists, pharmacists, social workers – any healthcare professional involved in patient care – in order to understand the roles each healthcare professional undertakes and the importance of teamwork. They will take histories (clerking), carry out physical examinations, suggest investigations and interpret the findings with a view to reaching a diagnosis and starting treatment. They will take part in ward rounds, team meetings, radiology and pathology meetings and will present their patients to the rest of the team. They will keep accurate records (using an agreed template).</p> <p>The overall aims of the attachment are as follows:</p> <ul style="list-style-type: none"> <li>• To gain experience of patient care as part of a clinical team.</li> <li>• To become proficient in medical diagnosis and formulation of management plans.</li> </ul>			

	<ul style="list-style-type: none"> <li>• To develop an adequate knowledge base for understanding common problems in internal medicine.</li> <li>• To develop clinical reasoning and problem-solving skills at the bedside.</li> <li>• To develop high standards of professional behaviour.</li> <li>• To continually reinforce basic and clinical science principles learnt during the earlier part of the course.</li> <li>• To prepare students to be able to prescribe drugs safely upon completion of their course.</li> <li>• To ensure students are able to write prescriptions and fill out drug charts accurately.</li> <li>• To ensure students are able to inject drugs, at the correct dose, intramuscularly, subcutaneously and intravenously</li> </ul>
<p><b>Learning outcomes</b></p>	<p>By the end of the course, students will be able to:</p> <ol style="list-style-type: none"> <li>1. Take a competent history from a patient, or relative of a patient, presenting with a medical condition, in a sensitive and caring manner.</li> <li>2. Carry out a physical examination of patients.</li> <li>3. Discuss a differential diagnosis for the presenting complaint.</li> <li>4. Apply their knowledge of the basic and clinical sciences to identify and explain appropriate investigations, including blood and urine tests and imaging, to assist in the diagnosis of the presenting complaint and to interpret the results from such tests.</li> <li>5. Prepare and explain a treatment management plan for the patient to present to the responsible clinician.</li> <li>6. Apply clinical reasoning and problem-solving skills at the bedside, using hypothesis generation, data gathering, integration of basic science, clinical medicine and evaluation of opinions.</li> <li>7. Demonstrate knowledge of common medical problems and medical emergencies.</li> <li>8. Perform procedures common to internal medicine e.g. venepuncture, insertion of intravenous cannulae, arterial puncture, urinary catheter and nasogastric tubes, measurement of peak flow, arterial blood gases, transcutaneous pulse oximetry, setting up an intravenous fluid infusion, administration of an intravenous medicine, intramuscular injection, subcutaneous injection, insulin injection, administration of oxygen, diagnosis of death.</li> <li>9. Demonstrate effective history taking in relation to prescribed drugs, over the counter medication, complementary and alternative therapies, illicit drug use and allergies.</li> <li>10. Demonstrate the correct use of an in-patient prescription chart.</li> </ol>

	<p>11. Demonstrate how to write a prescription for a patient, including effective prescription of controlled drugs.</p> <p>12. Demonstrate how to prescribe at hospital admission, on-call in hospital and at hospital discharge.</p> <p>13. Inject drugs, at the correct dose, intramuscularly, subcutaneously and intravenously and prepare and give nebulised drugs.</p> <p>14. In general, for each condition studied, list the main drugs (if any) that relieve symptoms, produce a cure or improve prognosis or reduce risk of recurrence.</p> <p>15. Demonstrate high professional standards and attitudes regarding relationships in the workplace, team work, confidentiality, initiative, self-directed learning and ethical issues.</p>																												
<b>Prerequisites</b>	None	<b>Required</b>	None																										
<b>Course content</b>	<ul style="list-style-type: none"> <li>• The diagnosis and management of common acute and elective medical conditions</li> <li>• The preventative approach to healthcare</li> <li>• Insertion of tubes, drains, needles</li> <li>• Interpretation of investigations, including X-rays, CT scans, MRI scans, ultrasound, Doppler and duplex scans, blood tests, pathology</li> <li>• Emergency medicine skills – airway maintenance etc.</li> <li>• Prescribing skills <ul style="list-style-type: none"> <li>○ Management of fluids and electrolytes</li> </ul> </li> <li>• Patient education – peak flow, spirometry, inhalers, nebulisers, glucose measurement.</li> </ul>																												
<b>Teaching methodology</b>	The course is delivered by clinical placements, lectures, tutorials, case studies and group discussions.																												
<b>Bibliography</b>	<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>Loscalzo J Kasper D Wiener C Fauci A Hauser S Longo J Jameson L</td> <td>Harrison's Principles of Internal Medicine</td> <td>20<sup>th</sup></td> <td>McGraw Hill, New York</td> <td>2021</td> <td>97812604 63040</td> </tr> <tr> <td>Joint Formulary Committee</td> <td><a href="https://bestpractice.bmj.com/drugs">https://best practice.bmj .com/drugs</a></td> <td>Last one</td> <td>BMJ Group and Pharmaceu tical Press.</td> <td>Current year</td> <td></td> </tr> <tr> <td>National Institute for Health and</td> <td><a href="https://www.nice.org.uk/guidance">https://ww w.nice.org.u k/guidance</a></td> <td>Last one</td> <td></td> <td>Current year</td> <td></td> </tr> </tbody> </table>					Authors	Title	Edition	Publisher	Year	ISBN	Loscalzo J Kasper D Wiener C Fauci A Hauser S Longo J Jameson L	Harrison's Principles of Internal Medicine	20 <sup>th</sup>	McGraw Hill, New York	2021	97812604 63040	Joint Formulary Committee	<a href="https://bestpractice.bmj.com/drugs">https://best practice.bmj .com/drugs</a>	Last one	BMJ Group and Pharmaceu tical Press.	Current year		National Institute for Health and	<a href="https://www.nice.org.uk/guidance">https://ww w.nice.org.u k/guidance</a>	Last one		Current year	
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	Clinical Excellence					
	Recommended textbooks/reading					
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<b>Assessment</b>	Final year exam and final year OSCE. The written assessment will be Single Best Answer MCQs and Short Answer Questions. Workplace based assessments will take place during the attachment.					
<b>Language</b>	English					