

Course Title	Orthopaedics, Otorhinolaryngology & Ophthalmology						
Course Code	MED-604						
Course Type	Required						
Level	Undergraduate						
Year / Semester	Year 6/ Semester 12 (Spring)						
Teacher's Name	Course Leads: Dr Nicos Maroudias						
ECTS	6	Lectures / week	4	Laboratories / week	0	Clinical Practice	36
Course Purpose and Objectives	<p>The main objectives of the last two years of the six 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 four 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 work primarily with patients with orthopaedic, ear, nose & throat (ENT), and eye problems. 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 orthopaedic, ENT or eye problems.</p> <p>The students will learn how to take detailed histories from, carry out appropriate clinical examination of, and interpret laboratory and imaging data on patients requiring orthopaedic surgery or requiring treatment, medical or surgical, for ENT and eye disorders. The students will learn to use instruments for the assessment of ENT and eye disorders and will spend time in theatre observing orthopaedic, ENT and eye operations.</p>						
Learning Outcomes	<p>After the completion of the course the students should be able to:</p> <ol style="list-style-type: none"> 1. Take a history from a patient, or relative of a patient, presenting with an orthopaedic condition or a condition affecting the ear, nose, throat or eye, in a sensitive and caring manner. 2. Carry out a physical examination as part of assessment of the presenting complaint, including use of the basic instruments for ENT and eye examination such as otoscope and hand-held ophthalmoscope. 3. Come up with a differential diagnosis for the presenting complaint. 4. Identify appropriate investigations, including blood tests, and imaging, to assist in the diagnosis of the presenting complaint and to interpret the results from such tests. 5. Prepare a treatment management plan for the patient to present to the responsible clinician to include medical and surgical options as appropriate. 						

	<p>6. Observe, and where appropriate carry out or assist with, the following procedures: arthroscopy, meniscectomy, chondroplasty, anterior cruciate ligament reconstruction, laminectomy, disc repair, arthroplasty; otoscopy, Rinne and Weber tests, audiography, auditory brainstem response, CT and MRI scans, electronystagmography, laryngoscopy, nocturnal polysomnogram, sinus endoscopy; ophthalmoscopy, basic eye tests, colour vision tests, visual field tests, computerized optic disc imaging, corneal topography and other surgical procedures, planned and opportunistic.</p>		
Prerequisites	None	Required	None
Course Content	<p><i>Orthopaedics</i></p> <ul style="list-style-type: none"> • Common fractures, dislocations, and ligament Injuries, including carpal scaphoid fracture, Colles fracture, shoulder dislocation, hip fracture, ankle injuries, spinal fractures, pelvic fractures • Fracture management – reduction, cast, fixation, traction • Amputation • Compartment syndrome • Sports Medicine injuries, including stress fractures, tennis elbow, shoulder bursitis • plantar fasciitis, sprains, Achilles tendon rupture • Osteomyelitis, septic arthritis, tenosynovitis • Osteoarthritis, Rheumatoid Arthritis • Degenerative joint disease of the hip, knee, and spine. • Osteoporosis, osteomalacia, hyperparathyroidism, Paget’s Disease • Osteonecrosis. • Spondylolysis • Disc herniation • Spinal stenosis • Primary and secondary malignant neoplasm of bone <p><i>Otorhinolaryngology</i></p> <ul style="list-style-type: none"> • Hearing loss • Conditions of the pinna and external auditory canal • Acute otitis media • Chronic otitis media • Earache • Tinnitus • Vertigo 		

	<ul style="list-style-type: none"> • Epistaxis • Nasal injury and foreign body • Rhinitis, nasal polyps • Acute and chronic sinusitis • Tumours of nose, sinuses and nasopharynx • Pharyngitis and tonsillitis • Laryngitis and epiglottitis • Vocal cord paralysis • Airway obstruction and tracheostomy • Diseases of salivary glands <p><i>Ophthalmology</i></p> <ul style="list-style-type: none"> • Ophthalmological emergencies • Disorders affecting the eyelids - entropion, ectropion, blepharitis, stye, chalazion • Conjunctivitis • Corneal ulcers • Uveitis • Glaucoma • Refractive errors • Cataract • Retinopathy – diabetic, hypertensive, other • Retinal artery/ vein occlusion • Retinal detachment • Macular and retinal disease • Visual impairment
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Teaching Methodology	The course is delivered by clinical placements, tutorials, case studies, theatre attendance and occasional lectures.
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Bibliography	<p>Required Textbooks/Reading:</p> <table border="1"> <thead> <tr> <th>Authors</th> <th>Title</th> <th>Publisher</th> <th>Year</th> <th>ISBN</th> </tr> </thead> <tbody> <tr> <td>Dandy, David J.</td> <td>Essential orthopaedics and trauma</td> <td>Churchill Livingstone</td> <td>2009</td> <td>9780443067174</td> </tr> <tr> <td>Corbridge, Rogan</td> <td>Oxford handbook of</td> <td>Oxford</td> <td>2010</td> <td>9780199550791</td> </tr> </tbody> </table>	Authors	Title	Publisher	Year	ISBN	Dandy, David J.	Essential orthopaedics and trauma	Churchill Livingstone	2009	9780443067174	Corbridge, Rogan	Oxford handbook of	Oxford	2010	9780199550791
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		ENT and head and neck surgery			
	Riordan-Eva, Paul	Vaughan & Asbury's general ophthalmology 18th ed.	Lange	2011	9780071634205
	Recommended Textbooks/Reading:				
	Authors	Title	Publisher	Year	ISBN
	Ramachandran, M	Basic Orthopaedic Sciences: The Stanmore Guide	Hodder Arnold	2006	9780340885024
	Jackson, Timothy L	Moorfields Manual of Ophthalmology 2nd ed.	JP Medical Ltd	2014	9781907816888
Riordan-Eva, Paul	Ophthalmology: An Illustrated Colour Text	Lange	2011	9780071634205	
Batterbury Mark	Ophthalmology: An Illustrated Colour Text	Churchill Livingstone	2009	9780702030598	
Assessment	Final year exam and final year OSCE.				
Language	English				