Course Title	General Surgery							
Course Code	MED-602							
Course Type	Required							
Level	Undergraduate							
Year / Semester	Year 6/ Semester 11 (Fall)							
Teacher's Name	Course Lead: Dr Marios Karaiskakis							
ECTS	10Lectures / week4Laboratories / week0Clinical Practice36							
Course Purpose and Objectives	10 Lectures / week 4 Laboratories / week 0 Clinical Practice 36 The main objectives of the last two years of the six 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 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. In this course, students will spend six weeks working with patients who present with a surgical problem across any sub-specialty of surgery. They will develop an understanding of the presentation, signs and symptoms, physical examination findings, investigations, diagnosis, treatment (medical and surgical) and management plan for a wide range of conditions. Students will be "on call" in the Emergency Room to receive and clerk patients. They will spend most of their time on wards, in theatre 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 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, theatre essions, radiology, and pathology meetings and will present their patients to the rest of the team. They will keep accurate records (using an agreed template).							

	 To practise basic surgical skills, such as hand-washing, gown gloving, and to observe (and take part, if appropriate) in ope and other surgical procedures. 						
	• To learn about anesthetics and airway management during their time in theatre.						
	 To develop clinical reasoning and problem solving skills at the bedside, in outpatients and in theatre. 						
	To develop high standards of professional behavior.						
	 To continually reinforce basic and clinical science principles learnt during the earlier part of the course. 						
Learning Outcomes	By the end of the course, students will be able to:						
	1. Take a competent history from a patient, or relative of a patient, presenting with a condition requiring surgical intervention, in a sensitive and caring manner.						
	2. Carry out a physical examination of patients.						
	3. Come up with a differential diagnosis for the presenting complaint.						
	 Identify appropriate investigations, including blood, urine and faecal tests and imaging, to assist in the diagnosis of the presenting complaint and to interpret the results from such tests. 						
	Prepare a surgical treatment management plan for the patient to present to the responsible surgeon.						
	6. Apply clinical reasoning and problem solving skills at the bedside outpatients and in theatre, using hypothesis generation, data gather integration of basic science, clinical medicine and evaluation of opinior						
	7. Demonstrate knowledge of common surgical problems and surgical emergencies						
	8. Perform procedures common to general surgery – aseptic techni scrubbing, gowning & gloving, suturing, use of local anaesthetic suturing, removal of sutures and staples, freezing and cau endoscopic procedures (observed only), wound management, we dressing and bandaging, management of leg ulcers and burns, contr haemorrhage, airway maintenance, bag and mask, resuscita venepuncture, insertion of intravenous cannulae, arterial punc urinary catheter, setting up an intravenous fluid infusion, administratio an intravenous injection, intramuscular injection, subcutaneous injection, administration of oxygen, diagnosis of death, male and female uri catheterization.						
	 Demonstrate high professional standards and attitudes regarding relationships in the workplace, team work, confidentiality, initiative, self- directed learning an ethical issues. 						
Prerequisites	None Required None						
Course Content	History taking						
	Problem formulation						

	Differential diagnosis					
	Development of surgical (and medical) management plans					
	Discriminatory use of investigations					
	Examination of:					
	head & neck, thyroid and lymph nodes, eye, ear, nose and throat					
	 respiratory system 					
	 breast and axillae 					
	 cardiovascular system 					
	 vascular system, including venous circulation in legs 					
	 abdomen – liver, spleen and bowel 					
	 rectal examination – digital, proctoscope 					
	 renal system, including dipstick analysis 					
	✤ neurological system					
	 penis, scrotum and testes 					
	 foot, ankle, knee and hip 					
	 hand, wrist, elbow and shoulder 					
	 lumbar and cervical spine 					
	 skin and appendages 					
	Clean and sterile technique					
	 Scrubbing, gowning and gloving Wound dressing and bandaging Leg ulcers Management of superficial thrombophlebitis and DVTs 					
	Suturing and removal of sutures and staples					
	Instrument tie					
	Freezing and cautery					
	 Insertion of tubes, drains, needles 					
	• Interpretation of investigations – X-rays, CT scans, MRI scans, ultrasound, Doppler and duplex scans, blood tests, pathology					
	Management of fluids and electrolytes					
	Emergency medicine skills – airway maintenance etc.					
	Patient education – peak flow, spirometry, inhalers, nebulisers, glucose measurement					
	Prescribing skills					
	Infection control					
Teaching Methodology	The course is delivered by clinical placements and associated lectures. Time is allocated during the week for discussions and self-directed learning.					

Bibliography	Required Textbooks/Reading:							
	Authors	Title	Publisher	Year	ISBN			
	Brunicardi, F. Charles	Schwartz's principles of surgery (9 th ed.)	McGraw-Hill	2010	9780071547703			
	Raftery, Andrew T.	Applied basic science for basic surgical training	Churchill Livingstone Elsevier	2008	9780080451404			
	Recommended Textbooks/Reading:							
	Authors	Title	Publisher	Year	ISBN			
	Goldberg, Andrew.	Surgical talk: lecture notes in undergraduate surgery	Imperial College Press	2012	9781848166141			
Assessment	Final year exam and final year OSCE.							
Language	English							