Course Title	**Surgery II**				
Course Code	MD420				
Course Type	Compulsory				
Level	1st Cycle (MD)				
Year / Semester	4th year / 8th semester				
Teacher's Name	TBA				
ECTS	12	Lectures / week	6 hrs/ 16 weeks	Laboratories / week	8 hrs/ 16 weeks
Course Purpose and Objectives	The course aims: • to apply and reinforce knowledge of basic sciences into the understanding, presentation and treatment of diseases and trauma that are commonly addressed within the field of Emergency Medicine • to learn and improve the care of the patient in the Emergency setting • to develop a better understanding and capability of managing critically ill patients • to familiarize students with the clinical manifestations, diagnosis, medical and surgical management and prevention of the diseases of the Musculoskeletal System				
Learning Outcomes	Upon successful completion of this course, students will be able to: • identify, diagnose and manage the treatment of conditions associated with threatening life situations. • acquire the expertise to diagnose a cardiorespiratory arrest and to carry out the basic techniques for cardiopulmonary resuscitation. To gain knowledge about the techniques for advanced vital support. • Prescribe and appropriately administer the principal groups of pharmacological agents • Learn and improve affect the care of the Trauma patient and the alternatives in management • Apply the principles of emergency practice, including immediate treatment both operative and non-operative management, to common conditions. • develop and apply the tools of clinical problem solving for traumatic and acute conditions including the process of data collection (history, physical examination and laboratory and imaging studies) in establishing a list of differential diagnoses and a primary working diagnosis for treatment and further investigation • develop interpersonal and communication skills and function as a part of the emergency care team in the Emergency Room setting • Be able to make sound decisions about the care of critically ill patients • Develop the ability to recognize potentially dangerous and manifestly life threatening conditions				

	• Develop an understanding of the prevention, diagnosis, incidence, etiology, pathophysiology, signs, symptoms, therapies, prognosis and complications of patients • Identify the most frequently encountered pathologies of the musculoskeletal system. • Diagnose the most frequently encountered pathologies of the musculoskeletal system by obtaining a past clinical history and physical examination with focus on the pathology of the musculoskeletal system, indications and interpretation of the principal complementary analytical tests, imaging, anatomopathological studies, etc. • Manage the medical-surgical treatment of the most frequently encountered pathologies of the musculoskeletal system.		
Prerequisites	None	Co-requisites	None
Course Content	• History taking and clinical examination • Decision making and clinical reasoning • Therapeutics and safe prescribing • Monitoring the emergency patient • Resuscitation • Mechanical ventilation and noninvasive ventilatory support • Injury prevention and health promotion • Cardiac rhythm Disturbances • Clinical pharmacology • Disaster medicine • Toxicology • Emergencies of major symptoms • Most frequently encountered pathologies of the musculoskeletal system		
Teaching Methodology	Face-to-face, Lectures, Practical exercises, Quizzes, Case Presentations, simulated patients, Rotations		
Bibliography	Principles of Critical Care. Hall JB, Schmidt GA, Kress JP, eds. McGraw-Hill Education, An Introduction to Clinical Emergency Medicine. Mahadevan SW, Garmel GM, eds. Cambridge University Press, Rosen's Emergency Medicine: Concepts and Clinical Practice. Wall RM, Hockberger RS, Gausche-Hill M, eds., Elsevier Inc, Principles of Critical Care, by Jesse B. Hall, Gregory A. Schmidt and John Kress Oxford Handbook of Critical Care (Oxford Medical Handbooks) by Mervyn Singer and Andrew Webb Essential Orthopaedics and Trauma; D.J. Dandy, D.J. Edwards; 978-0443067181; Churchill Livingstone;		

Assessment	Examinations: 70% Lab/Logbook 20% Class Participation: 10%
Language	English