

Course Title	Surgery I				
Course Code	MD405				
Course Type	Compulsory				
Level	1 st Cycle (MD)				
Year / Semester	4 th year / 7 th semester				
Teacher's Name	TBA				
ECTS	12	Lectures / week	6 / 16 weeks	Laboratories / week	8 / 16 weeks
Course Purpose and Objectives	<p>Surgery I is the introductory course to clinical surgery. It is a course comprised of amphitheater lectures, laboratory skill-stations, problem based learning modules, simulation training and hospital clinical training. This course aims to provide a motivating learning environment in which the students may acquire the surgical knowledge and the technical skills necessary for their clinical practice. Surgery I is devoted to understanding clinical presentation, pathophysiology, diagnostic procedure & treatment of surgical diseases in an organ – specific manner. In addition, the course aims introduce students to clinical anaesthesia covering: peri-operative assessment and optimization, monitoring techniques, acute pain, complications, acquisition of good basic airway skills, placement of intravenous cannulae, and experience in more advanced airway management techniques.</p>				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> • Know the physiological changes resulting from surgery and their compensatory mechanisms. • Be able to perform a surgery – orientated clinical examination (emphasis on trauma, acute abdomen, previous surgical history) • Be able to follow usual treatment chain in the surgical patient (diagnosis, preoperative control, operation, post – operative management, follow – up) • Understand the indications, expected results, and possible complications of surgery. • Identify common surgical emergencies and perform an initial assessment of the critically ill patient using the ABCDE approach.. • Obtain basic technical skills necessary for taking care the adult surgical patients. 				
Prerequisites	None	Co-requisites	None		
Course Content	<ul style="list-style-type: none"> • Biological response to surgical damage on and healing. • Principles of fluid and electrolyte management and surgical nutrition. 				

	<ul style="list-style-type: none"> • Hemostasis, bleeding and transfusion of blood products. • Physiopathology of wounds, burns, frost and energy related injuries. • Shock in the surgical patient. • Multiple trauma patient management and ATLS principles.. • Preoperative assessment of surgical risk. • Basic principles of surgical technique. • Standards for asepsis in surgery. • Surgical infections and antibiotic treatment. • Basic surgical pathology for different anatomical regions and systems • Postoperative complications. • Acute abdomen and surgical emergencies • Endocrine surgery • Breast surgery • Skin & soft tissue • Head & neck surgery • Surgery of the digestive track • Hepatobiliary surgery • Transplantation • Short history of Anesthesiology • The pharmacology of Anesthesiology • Anesthetic instruments • Preoperative assessments • The practical conduct of general Anesthesia • Regional anesthetic techniques • Acute Pain • Postoperative complications • Assess volume status and fluid management • Indications, risks, benefits and complications of IV fluids and blood products <p>Practice in the following:</p> <ul style="list-style-type: none"> • Operating Room <ul style="list-style-type: none"> • Demonstrate induction, maintenance and emergence of anesthesia • Demonstrate airway and ventilatory management • Understand the principles and practice of intraoperative monitoring • Understand intraoperative fluid and electrolyte management • Demonstrate intravenous access
Teaching Methodology	Face-to-face, skills training, clinical problems, hospital rotations
Bibliography	Bailey & Love's Short Practice of Surgery Norman Williams, Ronan O'Connell; ISBN 978-1444121278; CRC Press; Current Diagnosis and Treatment Surgery: Thirteenth Edition; Gerard M. Doherty; ISBN: 978-0071792110; McGraw-Hill Medical; Oxford Handbook of Clinical Surgery

	Greg McLatchie, Neil Borley, Joanna Chikwe; ISBN: 978-0199699476; Oxford University Press; Anesthesia Made Easy: The Survival Guide to Make Your First Anesthesia Rotation a Success
Assessment	Examinations: 70% Assignment/Lab 20% Class Participation: 10%
Language	English