

Course Title	Principles of Surgery				
Course Code	DES217				
Course Type	Compulsory				
Level	Bachelor of Dentistry				
Year / Semester	2 nd year / 3 rd semester				
Teacher's Name	Panagiotis Soucacos				
ECTS	4	Lectures / week	3 hrs / 13 weeks + exam week	Laboratories / week	1 hr / 13 weeks
Course Purpose and Objectives	<p>Principles of Surgery is the introductory course to oral surgery. It is a 13-week course comprised of amphitheater lectures and laboratory skills stations.</p> <p>This course aims to provide a standardized, uniform and consistent approach in basic surgical skills to maximize patient safety and asepsis in the operating room,</p> <p>to provide students step by step the surgical care, the preparation and care of supplies and equipment used for surgical procedures,</p> <p>to provide students basic surgical skills to create safe, competent and professional junior doctors</p>				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> • Demonstrate proficiency in assessing of the patient preoperatively and postoperatively with recognition of complications. • Demonstrate how to ensure safety and asepsis in the operating room, performing surgical hand wash and scrubbing, putting on sterile gowns and sterile gloves, removing 'soiled' gowns and gloves, preparing the operative site-skin cleansing, draping and isolating the operative site. • Select the proper scalpel to make an optimal incision, handle surgical bleeding, stop oozing, apply ligation, safe and proper instrument choice, be familiar to cutting, dissecting, grasping, retracting and wound closing instruments • Demonstrate surgical knot tying appropriate for a variety of suture techniques, performing interrupted sutures, 				

	<p>simple sutures, vertical mattress sutures, pulley sutures, continuous subcuticular suture, wound closure in separate layers, clip application.</p> <ul style="list-style-type: none"> • Discuss wound management and bandaging, suture removal. 		
Prerequisites	None	Co-requisites	None
Course Content	<p>In this regard, students will familiarize themselves with the following chapters concerning the Course of Principles of Surgery:</p> <ul style="list-style-type: none"> • History of Surgery- History of Dentistry. Preoperative assessment and postoperative care with recognition of complications. • Preoperative assessment and postoperative care with recognition of complications. • Criteria for patients to be discharged from the post-operative recovery room, monitoring, cardiovascular monitoring, respiratory monitoring, fluids & electrolytes, sepsis, neurovascular assessment, pain control, thromboprophylaxis. Procedures for an operation. • Asepsis- Antisepsis, Surgical handwash, put on sterile gowns, put on sterile gloves, remove “soiled” gowns and gloves, textiles and drapes in the operating room, preparing the operative site— skin cleansing, draping and isolation of the operative site. • Surgical instrumentation. Cutting and dissecting instruments, grasping instruments retracting instruments, wound-closing instruments. • Safe and proper instrument handling practices and appropriate instrument choice. • Hemostasis, Electrosurgery, Diathermy. Handling surgical bleedings, stop oozing, apply ligation if larger vessels are bleeding. • Sutures: classification, properties, principles of suture material selection. Familiarization with several kinds of sutures • Surgical needles, handling of needles, selection of proper needle. Familiarization with needles and handling • Surgical knot tying appropriate for a variety of suturing techniques. Two-handed square knot, surgeon’s knot, tying 		

	<p>knots with instruments, knotting in depths, knotting under tension</p> <ul style="list-style-type: none"> Principles of suturing. Simple interrupted suture, vertical mattress suture, subcuticular continuous suture, wound closure in three layers with continuous and interrupted sutures subdermal suture, clip application Basic wound management and bandaging, suture removal. Hemostasis, cleaning the wound, skin closure, dressing the wound. Management of wound infection. Treatment strategies for infected wounds 								
Teaching Methodology	Face-to-face								
Bibliography	<p>Kirk's Basic Surgical Techniques. Edinburgh: Elsevier, 2018.</p> <p>Basic surgical Skills. World Health Organization. [https://www.who.int/surgery/publications/s16383e.pdf]</p> <p>Routine procedures for an operation. Distance learning for medical and nursing professionals. [Brooksidepress.org]</p> <p>Basic surgical skills. [TeachMeSurgery.com]</p>								
Assessment	<table border="1"> <tr> <td>Final Examination</td> <td>60%</td> </tr> <tr> <td>Lab Report / Oral presentations</td> <td>30%</td> </tr> <tr> <td>Participation and attendance</td> <td>10%</td> </tr> <tr> <td>Total</td> <td>100%</td> </tr> </table>	Final Examination	60%	Lab Report / Oral presentations	30%	Participation and attendance	10%	Total	100%
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Language	English								