Course Title	Principles of Surgery					
Course Code	DES215					
Course Type	Compulsory					
Level	Bachelor (1 <sup>st</sup> Cycle)					
Year / Semester	2 <sup>nd</sup> year / 3 <sup>rd</sup> semester					
Teacher's Name	ТВА					
ECTS	4 Lectures / week 3 hrs / 14 Laboratories / 1 hr / 13 weeks					
Course Purpose and Objectives	Principles of Surgery is the introductory course to oral surgery.					
	It is a 13-week course comprised of amphitheater lectures and laboratory skills stations.					
	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,					
	to provide students step by step the surgical care, the preparation and care of supplies and equipment used for surgical procedures,					
	to provide students basic surgical skills to create safe, competent and professional junior doctors					
Learning Outcomes	<ul> <li>Upon successful completion of this course students should be able to:</li> <li>Assess the patient preoperatively and postoperatively with recognition of complications.</li> <li>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.</li> <li>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</li> <li>Describe surgical knot tying appropriate for a variety of suture techniques, performing interrupted sutures, simple sutures, vertical mattress sutures, pulley sutures, continuous subcuticular suture, wound closure in separate layers, clip application.</li> <li>Describe wound management and bandaging, suture</li> </ul>					

		removal.		
Prerequisites	None		Co-requisites	None
Course Content	•	Lecture: History of Surgery- History of Dentistry. Preoperative assessment and postoperative care with recognition of complications. Lab: History, Physical Examination, Investigations, Chest Radiographs Electrocardiograms (ECGs), Full Blood Count, Biochemistry, Coagulation Screening.		
	•	Lecture: Preopera recognition of com Lab: Criteria for pa operative recovery respiratory monito neurovascular ass Procedures for an	tive assessment an applications. atients to be dischar y room, monitoring, pring, fluids & electro sessment, pain con operation.	d postoperative care with ged from the post- cardiovascular monitoring, olytes, sepsis, trol, thromboprophylaxis.
	•	Lecture: Asepsis- Lab: perform surg sterile gloves, rem drapes in the oper cleansing, draping	Antisepsis ical handwash, put nove "soiled" gowns rating room, preparing g and isolation of the	on sterile gowns, put on and gloves, textiles and ng the operative site—skin e operative site
	•	Lecture: surgical i Lab: Cutting and c retracting instrume	nstrumentation dissecting instrumer ents, wound-closing	its, grasping instruments instruments.
	•	Lecture : surgical Lab: safe and prop appropriate instrue	instrumentation per instrument hand ment choice.	lling practices and
	•	Lecture: hemostas Lab: handling surg to apply ligation	sis, electrosurgery, o gical bleedings, ho if larger vessels a	diathermy w to stop oozing or how ire bleeding.
	•	Lecture: sutures: o material selection Lab: familiarization	classification, prope n with several kinds	rties, principles of suture of sutures
	•	Lecture: surgical r proper needle Lab: familiarization	needles, handling of n with needles and l	needles, selection of nandling
	•	Lecture: surgical techniques Lab: Two-handed instruments, knott	knot tying appropri square knot, surged ing in depths, knotti	iate for a variety of suturing on's knot, tying knots with ng under tension

	<ul> <li>Lecture: principles of suturing Lab: Simple interrupted suture, vertical mattress suture, subcuticular continuous suture, wound closure in three layers with continuous and interrupted sutures subdermal suture, clip application</li> <li>Lecture: Basic wound management and bandaging, suture removal Lab: hemostasis, cleaning the wound, skin closure, dressing the wound.</li> <li>Lecture: Management of wound infection Lab: Treatment strategies for infected wounds</li> <li>Lecture and Lab: Review</li> </ul>			
Teaching Methodology	Face-to-face			
Bibliography	Myint F. Kirk's Basic Surgical Techniques. Edinburgh: Elsevier, 2018. Basic surgical Skills. World Health Organization. [ <u>https://www.who.int/surgery/publications/s16383e.pdf</u> ] Routine procedures for an operation. Distance learning for medical and nursing professionals. [Brooksidepress.org] Basic surgical skills. [TeachMeSurgery.com]			
Assessment	Examinations60%Laboratory / Clinical Work / Oral presentations30%Class participation and attendance10%Total100%			
Language	English			