

Course Title	Oral and Maxillofacial Surgery I				
Course Code	DES530				
Course Type	Compulsory				
Level	Bachelor (1 st Cycle)				
Year / Semester	5 th year / 9 th semester				
Teacher's Name	TBA				
ECTS	1	Lectures / week	1 hr / 13 weeks + exam week	Clinic / week	N/A
Course Purpose and Objectives	<p>Oral and Maxillofacial Surgery is the course with clinical oral and Maxillofacial surgery practice. The course comprised of amphitheater lectures, clinical skill-stations, problem based learning modules, 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. The objective of the course is to familiarize students with instruments and materials in oral and maxillofacial surgery, patient evaluation, local and general anesthesia, with facial and dental injuries, head and neck cancer, salivary gland diseases, facial pain, temporomandibular disorders, cysts and tumors of the jaws, as well as numerous problems affecting the oral mucosal such as mouth ulcers and infection and to enable the student to acquire knowledge and skills necessary of treating oral surgery and basic maxillofacial surgery problems.</p>				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> • Call the most important aspects of anatomy and physiology applied to oral surgery. • Be competent to perform and record, a dental examination, mucous membranes and other structures of the mouth. • Describe the specific findings of the history and examination of the patient, which may influence surgical therapy • Describe techniques intra and extraoral radiology • Be competent to conduct an evaluation of data from the clinical history and establish a differential diagnosis, identify the factors contributing formulate a proper treatment plan and establish the prognosis; • Identify understand and manage barrier methods and clothing used in oral surgery • Explain the basic principles of oral maxillofacial surgery 				

	<ul style="list-style-type: none"> • Assess the injured patient in identifying conditions that require resuscitation • Assess patients with midface injuries • Describe the principles of treatment of mandibular trauma • Discuss the basic principles of internal fixation • Discuss sedation, general anesthesia in oral and maxillofacial surgery. • Identify, recognize and treat soft tissues facial and oral trauma • Identify understand and manage instruments and materials most frequently used in oral surgery • Make recommendations and postoperative follow-up care • List the types and characteristics of different incisions and sutures common oral surgery. • Make recommendation and management salivary gland disorders • Discuss the principle of oral cancer management • Make recommendation and management of patients, undergoing radiation and chemotherapy. 		
Prerequisites	None	Co-requisites	None
Course Content	<ul style="list-style-type: none"> • SEDATION AND GENERAL ANESTHESIA IN ORAL AND MAXILLOFACIAL SURGERY History, the role and the scope of sedation, Inhalational sedation, oral sedation, Intravenous sedation, General anesthesia, Preoperative management, Airway management, monitoring. • PRINCIPLES OF ORAL CANCER MANAGEMENT Epidemiology and risk factors, Histologic grading, tumor staging and clinical behavior, Preoperative assessment, Surgical treatment of oral cancer based on subsite: tongue, Maxillary gingiva, Mandibular gingiva, Buccal mucosa, Floor of the mouth, Lip. Management of the neck, Postsurgical management. • MANAGEMENT OF PATIENTS UNDERGOING RADIATION AND CHEMOTHERAPY Radiotherapy, Brachytherapy, Chemotherapy, Side-effects, Management of oral health during radiation, Management of oral health during chemotherapy, Management of postradiation conditions. • SALIVARY GLAND DISORDERS I Differential diagnosis, Granulomas and chronic infections, Inflammatory conditions, Infection (bacterial and viral), Autoimmune salivary disease, Non-autoimmune salivary gland disease, Metabolic salivary gland 		

disease, Obstructive salivary gland disease: investigation, Sialolithiasis, Modern management of salivary calculi.

- **SALIVARY GLAND DISORDERS II** Salivary gland tumors, Etiology and risk factors, Investigation, Intraoperative facial nerve monitoring, benign parotid tumor and surgical management, benign tumors of the submandibular and minor salivary, malignant tumors.
- **ASSESSMENT OF THE INJURED PATIENT** Initial treatment of the trauma patient, Triage, Primary survey and resuscitation, Airway, Breathing, Circulation, Secondary survey.
- **SOFT TISSUES TRAUMA** General principles of management, Assessment, Timing of repair, Tissue handling, Postoperative care, Dressing management, Suture and staple removal. Specific wounds: Abrasion, Laceration, Hematoma, Mucosa. Tongue, Nose, Ear, Eyelid injury Facial nerve, Neck, Scalp.
- **MIDFACIAL FRACTURES** Classification, Assessment of patients with midface injuries , Open or closed reduction, Surgical approaches to midfacial skeleton, Treatment at the site of fracture: Fractures of the maxillary alveolar process, Le Fort I fracture , Fractures of nasal bones, Fractures of the zygomatic bone, Fractures of the frontal bone, Surgical technique, Strategy of management of complex midfacial fractures,
- **ORBITAL RECONSTRUCTION AND PANFACIAL FRACTURES** Orbital reconstruction, surgical anatomy, surgical approaches to the orbital cavity Investigation of orbital trauma, Complications of orbital trauma. Material for orbital reconstruction, Planning and sequencing of the treatment of panfacial fractures: Diagnostics, Airway, Approaches Timing, and Therapy.
- **MANDIBULAR TRAUMA – PRINCIPLES OF TREATMENT** Classification of mandibular fractures, Patient evaluation, Imaging, Goals of mandibular fracture treatment, Closed reduction , Open reduction, Surgical approaches, Basic principles of internal fixation, Complications of mandibular fracture repair, Special considerations: Teeth in the line of fracture, Comminuted fractures, Edentulous mandible fractures, Condylar fractures, pediatric mandible fractures.

	<ul style="list-style-type: none"> The students will be assessed by a final written exam comprised of multiple choice questions and short clinical problems. The acquired clinical skills are tested with Objective Structured Clinical Examinations (OSCEs). Team based clinical problem analysis with oral presentation as well as lab & class participation are also graded. 								
Teaching Methodology	Face-to-face								
Bibliography	<p>Andersson L, Kahnber K-E, Pogrel MA. Oral and Maxillofacial Surgery. Hoboken, New Jersey: Wiley-Blackwell, 2010.</p> <p>Kademani D, Tiwana PS. Atlas of Oral and Maxillofacial Surgery. Philadelphia: Saunders Elsevier, 2016.</p> <p>Hupp JR, Tucker MR, Ellis E. Contemporary Oral and Maxillofacial Surgery. St. Louis: Mosby, 2013.</p> <p>Miloro M, Ghali GE, Larsen PE, Waite PD. Peterson's Principles of Oral and Maxillofacial Surgery. Beijing: People's Publishing Medical House, 2014.</p> <p>Bagheri SC. Clinical Review of Oral and Maxillofacial Surgery. St. Louis: Mosby, 2013.</p>								
Assessment	<table border="1"> <tr> <td>Final Examination</td> <td>60%</td> </tr> <tr> <td>Laboratory / Clinical Work / 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%	Laboratory / Clinical Work / Oral presentations	30%	Participation and attendance	10%	Total	100%
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Language	English								