

Course Title	Oral and Maxillofacial Surgery II				
Course Code	DES585				
Course Type	Compulsory				
Level	Bachelor (1 <sup>st</sup> Cycle)				
Year / Semester	5 <sup>th</sup> year / 10 <sup>th</sup> semester				
Teacher's Name	TBA				
ECTS	1	Lectures / week	1 hr / 13 weeks + exam week	Clinic / week	1 hr / 13 weeks + 2 hrs / 6 weeks
Course Purpose and Objectives	<p>Oral and Maxillofacial Surgery II 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 head and neck cancer, salivary gland diseases, facial pain, temporomandibular disorders, tumors of the jaws, as well as numerous problems affecting the maxillofacial region as orthognathic problems, craniofacial syndromes, and cosmetic surgery 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"> <li>• Describe the most important aspects of anatomy and physiology applied to oral surgery.</li> <li>• Perform and record, a dental examination, mucous membranes and other structures of the mouth.</li> <li>• Describe the specific findings of the history and examination of the patient, which may influence surgical therapy</li> <li>• Describe techniques intra and extraoral radiology</li> <li>• 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;</li> <li>• Identify understand and manage barrier methods and clothing used in oral surgery</li> <li>• Explain the basic principles of oral maxillofacial surgery</li> <li>• Discuss sedation and general anesthesia in oral and maxillofacial surgery</li> </ul>				

	<ul style="list-style-type: none"> <li>• Identify understand the diagnosis and treatment planning for orthognathic surgery</li> <li>• Make recommendation for sleep apnea and distraction osteogenesis and for cleft lip and palate management.</li> <li>• Indentify the treatment approaches for maxillary defects- Prosthetic obturator</li> <li>• Assess mandibular reconstruction.</li> <li>• Describe basic knowing cosmetic facial surgery</li> <li>• Make recommendations and postoperative follow-up care</li> <li>• Recognize and identify complications of surgery</li> </ul>		
Prerequisites	None	Co-requisites	None
Course Content	<ul style="list-style-type: none"> <li>• DIAGNOSIS AND TREATMENT PLANNING FOR ORTHOGNATHIC SURGERY I Facial evaluation, diagnosis and treatment planning, cephalometric analysis, Dental model analysis, Orthodontic principles in orthognathic surgery, postsurgical orthodontics.</li> <li>• DIAGNOSIS AND TREATMENT PLANNING FOR ORTHOGNATHIC SURGERY II Esthetic objectives and surgical solutions ,Single jaw surgery- mandibular repositioning , Single jaw surgery- maxillary surgery, Double jaw surgery, repositioning the maxilla and the mandible , Chin surgery, model surgery</li> <li>• DIAGNOSIS AND TREATMENT PLANNING FOR ORTHOGNATHIC SURGERY part II. Surgical technique, Surgical technique for mandible, Bilateral sagittal split ramus osteotomy, genioplasty Surgical technique for maxillary le fort I maxillary osteotomy, complications.</li> <li>• ORTHOGNATHIC SURGERY IN OBSTRUCTIVE SLEEP APNEA Obstructive sleep apnea: Epidemiology and pathophysiology, diagnosis and definitions, Principles of treatment, Patient evaluation, surgical treatment.</li> <li>• DISTRACTION OSTEOGENESIS Biological process of distraction osteogenesis, Mandibular distraction extraoral and intraoral, Craniofacial distraction osteogenesis , Alveolar distraction osteogenesis , vertical and transverse alveolar distraction Temporomandibular joint distraction , Bone transport distraction, Complications</li> <li>• CLEFT LIP AND PALATE. Epidemiology, Etiology and genetic, Classification , Prenatal diagnosis, Feeding and nutrition , Ear nose and throat evaluation, Presurgical orthopaedics, Cleft lip repair : Unilateral cleft lip, Bilateral cleft lip , Repair of cleft palate: Timing of palate repair, Principles and techniques of palate repair, Speech and velopharyngeal dysfunction, Alveolar</li> </ul>		

	<p>cleft repair , Surgical correction of secondary lip and nose deformities.</p> <ul style="list-style-type: none"> <li>• CRANIOFACIAL SYNDROME PATIENTS - ORTHOGNATHIC SURGERY Craniosynostosis: Sagittal synostosis, Metopic synostosis, Unicoronal synostosis, Bicoronal synostosis, Lambdoid synostosis, Positional plagiocephaly, Craniofacial dysostosis syndromes: Crouzon syndrome, Pfeiffer syndrome, Apert syndrome Saethre-Chotzen syndrome, Carpenter syndrome, Treacher Collins syndrome, Orthognathic surgery, Hemifacial microsomia</li> <li>• RECONSTRUCTION OF MAXILLARY DEFECT Classification and treatment approaches for maxillary defects, Prosthetic obturation of maxillary defects, Implant support, Local and regional flaps for maxillary reconstruction: Temporalis flaps, buccal fat pad flap. Free tissue transfer in maxillary reconstruction: Radial forearm free flap, Radial forearm osteofasciocutaneous flap, Fibula osteocutaneous flap, Scapular osteomyogenous flap, and Vascularized iliac crest flap.</li> <li>• RECONSTRUCTION OF MANDIBULAR DEFECT Marginal resection , Segmental resection , Non-vascularized bone grafting for mandibular reconstruction, Ribs, Iliac crest, Tibia , Free flaps , Reconstruction involving the mandibular condyle.</li> <li>• COSMETIC FACIAL SURGERY Minimally invasive cosmetic facial surgery procedures, Botox, injectable facial fillers, liposuction, Midface implants , Cosmetic blepharoplasty, Rhinoplasty , Otoplasty</li> </ul> <p>The students are 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 &amp; class participation are also graded.</p>
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								