COURSE SPECIFICATIONS PROGRAMME

ORAL & MAXILLOFACIAL SURGERY

THIRD YEAR

Course Specification Oral and maxillofacial surgery

University	Tripoli
Faculty	Dentistry

A-Administrative Information:

Course Title	Oral Surgery I
Code	O.M.F.S. III
Department offering the course	Department of Oral & Maxillofacial
	Surgery- Faculty of Dentistry, University of
	Tripoli
Programme(s) on which the course is	B.D.S Program
given	
Department(s) offering the programme	Faculty of Dentistry, University of Tripoli
Academic level/year	Third year
Taught hours	3hours/week (90 hours/year)

Lecture	Tutorial	Practical	Others	Total
2 hours/week		2 hours/week		3 hours/week
60 hours/year		60 hours/year		90 hours/year

B-Professional Information:

1. Overall aims of course:

- The course provides the undergraduate students with basic information and skills necessary to perform local anaesthesia and exodontia, and deal with the expected complications during oralsurgical procedures.
- To provide the students with sufficient knowledge and intellectual skills concerning different diseases and lesions affecting the oral and para-oral structures.
- To provide students with an appropriate formation of knowledge covering oral & maxillofacial surgery emergencies and common diseases in the oral & maxillofacial region in children and adults.
- To enable students to recognize important clinical lesions and be familiar with recent methods of diagnosis and proper management.

2. Intended Learning outcomes of course (ILOs)

a) Knowledge and understanding

By the end of the course, students should be able to:

- Describe the basic anatomy and physiology of oral & maxillofacial region.
- Determine the different types of local anesthetic drugs and biotransformation, excretion and systemic action.
- Discuss principles, types and techniques of local anaesthesia.
- Identify complications of local anaesthesia.
- Determine the indication and contra-indication of dental extraction (systemic and local) and pre-operative assessment before dental extraction.
- Describe different techniques for extraction of permanent teeth.

- Discuss complications of extraction of teeth.
- Determine the indications and principles of trans-alveolar extraction.
- describe aetiology and complications of impacted teeth and techniques used for their surgical removal
- Describe classification, radiographic evaluation, surgical techniques and postoperative care for impacted teeth (third molars, premolar & canines).
- Recognize techniques for pre-prosthetic surgery.
- Describe the management of patients with systemic diseases in oral surgery.
- Discuss principles and techniques for oral implantology.
- Recognize the concepts and mechanisms of infection control.

b) Intellectual skills

By the end of the course, students should be able to:

- Explain factors leading to complications in local anaesthesia.
- Determine factors leading to complications in extraction of teeth.
- Identify causes of surgical problems for patients.

c) Professional and practical skills

By the end of the course, students should be able to:

- Apply local anaesthesia in different intra oral locations.
- Manage the complications which may arise during local anaesthesia application.
- Perform basic surgical techniques.
- Undertake exodontia of teeth.
- Perform extractions for different types of teeth using the appropriate dental forceps.
- Remove roots fractured during exodontias.
- deal with roots fractured during exodontia using the appropriate surgical instruments
- Remove retained roots including the raising of a mucoperiosteal flap.
- Remove simple impacted teeth.
- Perform the necessary procedures for controlling haemorrhage during oral surgical procedures.
- Perform the necessary procedures for controlling complications of oral surgery both general (medical) and local (surgical) intra-operatively and post-operatively.
- Provide adequate instructions to the patient following surgical procedures to ensure proper healing.
- Apply basic surgical technique including the raising of a mucoperiosteal flap, bone removal and suturing.
- Assess and select patients requiring oral surgical procedures on clinical basis.
- Provide immediate (including life-saving) care for emergency cases.
- Identify, select, appropriately use and manage the needed surgical armamentarium.

d) General and transferable skills

By the end of the course, students should be able to:

- Associate in group activities to develop baseline understanding and implementation of teamwork performance strategies.
- Integrate computer search for development of self learning.

- Display ability to gather information through seminar presentations.
- Communicate effectively with patients, colleagues and staff members.
- Exhibit ethical practices during patient care.
- Manage time, set priorities and work to prescribed time limits.
- Communicate with colleagues and the public.

e) Attitude

By the end of the course, students should be able to:

- Demonstrate ethical relationship with staff.
- Deliver care to patients with professionalism, self confidence and communication.

3. Course contents:

No.	Lecture Title	Lecture Subtitle
1.	Introduction	• Definition.
		• History.
		• Scope.
		• Aims.
		• Objectives.
2.	Principles of surgery	
	(1)Preoperative health	Medical history:
	status evaluation:	 Biographic data.
		– Chief complaint.
		 History of the chief complaint.
		 Medical history.
		 Review of systems.
		Physical examination.
		• Risk assessment.
		• Management of patients with medically
		compromised patient:
		– Conditions.
		 Cardiovascular problems.
		 Pulmonary problems.
		 Renal problems.
		 Hepatic disorders.
		 Endocrine disorders.
		 Hematologic problems.
		 Neurologic disorders.
		• Management of pregnant and postpartum patients:
		– Pregnancy.
		– Postpartum.
	(2)Prevention and	Prevention.
	management of	• Preparation:
	medical emergencies:	 Continuing education.
		 Office staff training.
		 Access of help.
		 Emergency supplies and equipment.

	Medical emergencies
	 Hypersensitivity reactions.
	 Chest discomfort.
	 Respiratory difficulty:
	a. Asthma.
	b. Hyperventilation.
	c. Chronic obstructive pulmonary disease.
	d. Foreign body aspiration.
	e. Gastric contents aspiration.
	 Altered consciousness.
	a. Vasovagal syncope.
	b. Orthostatic hypotension.
	c. Seizure.
	d. Local anaesthetic toxicity.
	e. Diabetes mellitus.
	f. Thyroid dysfunction.
	g. Adrenal insufficiency.
	h. Cerebrovascular compromise.
(3)Principles of surgery:	• Developing a surgical technique.
	• Basic necessities for surgery.
	Aseptic technique:
	– Flap.
	 Flap design:
	a. Prevention of flap necrosis.
	b. Prevention of flap dehiscence.
	c. Prevention of flap tearing.
	– Intra-oral:
	a. Mucoperiosteal flaps.
	b. Principles.
	c. Commonly used intra-oral incisions.
	– Extra oral:
	a. Skin incisions.
	b. Principles.
	c. various extra-oral incision to expose
	(1) System on disular
	(1)Submanuloular. (2)Pro surjoular
	(2) Incision to expose maxilla & orbit
	(4) Bicoronal incision
	- Bone removal:
	a Methods of bone removal
	h Use of burs
	c Bone cutting instruments
	• Tissue handling
	Haemostasis
	 Means of promoting wound haematosis
	 Dead space management
	 Decontamination and debridement
	Suturing:

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	– Principles.
	– Resorbable sutures.
	 Nonresorbable sutures.
	 Suture sizes
	 Suture bandling
	 Needles
	 Basic suturing techniques
	 Dasic sutaring teeningues. – Postoperative care of sutured wounds
	Ordema control
	 Detions control. Detions control houlth and nutrition
(1)Wound renair	Wound repair
(+) wound repair	• Wound repair.
	- Actiology of fissue damage.
	- Epithenansation.
	- Stages of would healing.
	• Surgical significance of wound nearing concepts.
	- Factors that impair.
	- Heating by primary and secondary intention.
	- Heating of extraction sockets.
	– Bone nealing.
	– Implant osseointegration.
	- Nerve injury and repair.
(5)Principles of asepsis	• Communicable pathogenic organisms.
	- Bacteria.
	a. Upper respiration tract flora.
	 D. Maximolacial skin hora. Non maxilla facial flora
	C. Non-maximolacial nota.
	– Vital Olganishis.
	a. Trepatitis vituses. h. Human immunodeficiency virus
	Mycobotorial arganisms
	 A sontia tachniqua and universal presentions
	• Aseptic technique and universal precautions.
	- Terminology.
	- Concept. Techniques of instrument starilization
	- Techniques of instrument disinfection
	- Techniques of instrument disinfection.
	- Maintenance of sterinty.
	a. Disposable materials.
	0. Surgical field maintenance.
	- Operatory distinction.
	- Sulgical stall preparation.
	a. Antisepties. h. Clean technique
	c Sterile technique
	d Postsurgical asensis
	 Patient preparation
	• Principles of infection control and cross-infection
	with particular reference to HIV/AIDS and hepatitis

	(6)Control of	•	Normal haemostasis.
	haemorrhage during	•	Local measures available to control bleeding.
	surgery	•	Hypotensive anaesthesia etc.
	(7)Drainage &	•	Purpose of drainage in surgical wounds.
	debridement	•	Types of drains used
		•	Debridement
			– Purpose
			 Soft tissue debridement
			 Bone debridement
	(8)Post operative care	•	Postoperative instructions
	() · P · · · · · · ·	•	Physiology of cold and heat
		•	Control of pain – analgesics
		•	Control of infection – antibiotics
		•	Control of swelling – anti-inflammatory drugs
		•	Long term post operative follow $un - significance$
3.	Local anaesthesia	•	Introduction
		•	History
		•	Neural nathway of facial nain
		•	Neurophysiology
		•	Concept & principle of L A
		•	Classification of local anesthetic agents
		•	Ideal requirements
		•	types of local anaesthesia
		•	Composition of local anesthetic agents
		•	Indications and contraindications
		•	Advantages and disadvantages
		•	Pharmacology of local anesthetics
		•	Use of vaso-constrictors in local anesthetic agent
		-	 Pharmacology of vaso-constrictors
			 Advantages contraindications
			 Various vaso-constrictors used
		•	Armamentariums
			 Additional Armamentarium
			a Topical antisentic
			b. Topical anaesthetic.
			c. Applicator sticks.
			d. Cotton gauze.
			e. Haemostat.
			– Preparation of Armamentarium.
		•	Techniques of local anaesthesia.
			 Physical and physiological evaluation.
			a. Medical history.
			b. Dialogue history.
			c. Physical examination.
			d. Drug-Drug interaction.
			 Basic injection technique.
			a. Position the patient.

		b. Position the operator.
		c. Hand positions for injections.
		d. Aspiration.
		 Anatomical considerations.
		• Techniques of maxillary anaesthesia.
		 Maxillary injection techniques.
		a. Supraperiostal (infiltration).
		b. Periodontal ligament (intraligamentary).
		c. Intraseptal injection.
		d. Intraosseous injection.
		e. Posterior superior alveolar nerve block.
		f. Middle superior alveolar nerve block.
		g. Infraorbital nerve block.
		h. Maxillary nerve block.
		1. Greater palatine nerve block.
		J. Nasopalatine nerve block
		- I eeth and buccal soft and hard tissues.
		– Palatal anaesthesia.
		- Maxillary nerve block.
		• I echniques of mandibular anaesthesia.
		- Interior alveolar nerve block.
		- Buccal nerve block.
		– Mandibular nerve block.
		– Mental nerve block.
		- Incisve nerve block.
		• Effects of inflammation on local anaestnesia.
		• Complication of local anaesthesia.
		- Failure of local anaesthesia.
		- Local complications.
4	Evadantia	- Systemic complications.
4.	Exodontia	Introduction. Definition
	(1) A umamantarium fou	Definition.
	(1)Almamentalium lor basic oral surgery	 Instruments to incise tissue. Instruments for elevating muccharing to the second second
	basic or ar surgery	 Instruments for centralling hocmorrhage
		 Instruments to group tiggue
		 Instruments to grasp tissue. Instruments for removing hone;
		Instruments for removing bone. Dengour forcong
		- Kongeur forceps.
		- Chisei and manet.
		- Duile IIIe. Pur and handniaga
		- Dui anu nanupiece.
		- instruments to remove soft tissue from bony defects.
		Instruments for suturing mucosa:
		– Needle holder.
		– Needle.
		– Suture material.
		– Scissors.

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1			
		٠	Instruments for retracting soft tissue.
		٠	Instruments to hold the mouth open.
		•	Instruments for providing suction.
		•	Instruments to transfer sterile instruments.
		•	Instruments to hold towels and drapes position
		•	Instruments for irrigation
			Dental elevators:
		•	Components
			- Components.
			– Types.
			- Uses.
			- Principles of uses of elevators.
		•	Extraction forceps:
			– Components.
			 Maxillary forceps.
			 Mandibular forceps.
		•	Instruments tray systems.
	(2)Principles of	•	Pain and anxiety control:
	uncomplicated(Forcep		 Local anaesthesia.
	s or intra-alveolar or		– Sedation.
	closed) exodontia	•	Presurgical medical assessment.
		•	Indications for removal of teeth.
		•	Contraindications for removal of teeth
		•	Clinical evaluation of teeth for removal:
		-	 Access to tooth
			Mobility of tooth
			- Mobility of tooth.
		_	- Condition of the crown.
		•	Radiographic examination of tooth for removal.
			- Relationship of associated vital structures.
			- Configuration of roots.
			- Condition of surrounding bone.
		•	Patient and surgeon preparation.
		٠	Chair position for forceps extraction.
		٠	Mechanical principles involved in tooth extraction.
		٠	Principles of forceps use.
		٠	Procedure for closed extraction.
		•	Role of the opposite hand.
		•	Role of assistant during extraction.
		•	Specific techniques of removal of each tooth.
			– Maxillary teeth.
			– Mandibular teeth.
			 Modifications for extraction of primary teeth
		•	Postextraction care of the tooth socket
	(3)Principles of	•	Principles of flan design development and
	complicated (Trans-	•	management
	alveolar surgical or		_ Design parameters for soft tissue flore
	onen) exodontia		- Design parameters for soft dissue haps.
	open, caouontia		- Types of indeoperiosteal haps.
			– recnnique of developing a mucoperiosteal flap.

		 Principles of suturing.
		• Principles and techniques for surgical extraction:
		 Indications for surgical extraction.
		- Principles of uses of elevators.
		- Technique for open extraction of single rooted
		tooth.
		- Technique for surgical removal of multirooted
		teeth.
		 Removal of small root fragments and root rips.
		 Policy for leaving root fragments.
		Multiple extractions.
	(4)Principles of	• Definition.
	management of	Epidemiology.
	impacted teeth	Aetiology.
		• Indications for removal of impacted teeth.
		• Contraindications for removal of impacted teeth.
		• Classification systems for mandibular impacted teeth:
		– Angulation.
		 Relationship to anterior border of ramus.
		 Relationship to occlusal plane.
		Root morphology:
		 Size of follicular sac.
		 Density of surrounding bone.
		 Contact with mandibular second molar.
		 Relationship to inferior alveolar nerve.
		 Nature of overlying tissue.
		• Modification of classification systems for maxillary
		impacted teeth.
		• Factors that make impaction surgery less difficult.
		• Factors that make impaction surgery more difficult.
		Diagnosis.
		Surgical procedures:
		 Impacted mandibular third molar.
		 Impacted maxillary third molar.
		 Impacted maxillary canine.
		Perioperative patient management.
T	(5)Postoperative patient	Control of postoperative bleeding.
	management	• Ecchymosis.
		• Oedema.
		• Trismus.
		• Diet.
		Oral hygiene.
		• Control postoperative pain and discomfort.
		Control of infection.
		Postoperative follow up visit.
	(6) Complication of	Prevention of complication.
	exodontia and	• Complication occurring during the operative

	prevention and	procedure:
	management	 Soft tissue injuries.
		 Injuries to osseous structures.
		 Oroantral communications.
		 Fractures of the mandible.
		 Complications with the tooth being extracted.
		 Injuries to adjacent structures.
		• Complications occurring during the postoperative
		neriod.
		– Bleeding
		 Delayed healing
		– Infection
		Management of complications
5	Soft tissue and	Management of dentoalveolar injuries:
5.	dentoalveolar injuries	History
	uchtourveolur injuries	Clinical examination
		- Chincal examination.
		- Radiographic examination.
		- Classification of traumatic injuries to the teeth
		and supporting structures.
		a. Crown tracture
		c. Crown-root fracture
		d Horizontal root fracture
		e Sensitivity (concussion)
		f Mobility (sublivation or looseness)
		g Tooth displacement
		h Avulsion
		i Alveolar process fracture
		Treatment of dentoalveolar injuries
		 Soft tissue injuries:
		- Abrasion
		- Contusion
		- Laceration
		 Surgical management of lacerations:
		Cleansing of the wound
		- Cleansing of the wound
		- Debindement of the wound
		- Hachiostasis in the wound.
6	Dron rosthatia surgary	- Closure of the would.
υ.	r reprosinent surgery	Introduction. Definition
	(1) De sie Deres verste stie	
	(1) Basic Preprostnetic	• Objectives of preprosthetic surgery.
	surgery	• Principles of patient evaluation and treatment:
		– Planning.
		 Evaluation of supporting bony tissue.
		 Evaluation of supporting soft tissue.
		 Treatment planning.
		• Recontouring of the alveolar ridges:

	 Simple alveolopasty associated with removal of
	multiple teeth.
	– Intraseptal alveoloplasty.
	- Maxillary tuberosity reduction.
	- Buccal exostosis and excessive undercuts.
	– Lateral palatal exostasis.
	- Mylonyola ridge reduction.
	- Genial tubercle reduction.
	• 1 ori removal:
	- Maxillary tori.
	- Mandibular tori.
	• Soft tissue abnormalities:
	- Maxillary tuberosity reduction (soft tissue).
	- Mandibular retromolar pad reduction.
	– Lateral palatal soft tissue excess.
	- Unsupported hypermobile tissue.
	– Inflammatory fibrous hyperplasia.
	– Inflammatory papillary hyperplasia of the
	– Labial frenectomy.
	– Lingual frenectomy.
	• Immediate dentures.
(2) A dyamood	Overdenture surgery. Eastern offesting house recommiser
(Z)Auvanceu	• ractors anecting bone resorption.
	 Goals of advanced proprosthetic surgery
	 Goals of advanced preprosthetic surgery. Patient evaluation:
	 Goals of advanced preprosthetic surgery. Patient evaluation: Bone evaluation
	 Goals of advanced preprosthetic surgery. Patient evaluation: Bone evaluation. Soft tissue evaluation.
	 Goals of advanced preprosthetic surgery. Patient evaluation: Bone evaluation. Soft tissue evaluation. Treatment planning
	 Goals of advanced preprosthetic surgery. Patient evaluation: Bone evaluation. Soft tissue evaluation. Treatment planning. Mandibular augmentation:
	 Goals of advanced preprosthetic surgery. Patient evaluation: Bone evaluation. Soft tissue evaluation. Treatment planning. Mandibular augmentation: Superior border augmentation
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	 Goals of advanced preprosthetic surgery. Patient evaluation: Bone evaluation. Soft tissue evaluation. Treatment planning. Mandibular augmentation: Superior border augmentation. Inferior border augmentation. Pedicle or interpositional grafts
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	 Goals of advanced preprosthetic surgery. Patient evaluation: Bone evaluation. Soft tissue evaluation. Treatment planning. Mandibular augmentation: Superior border augmentation. Inferior border augmentation. Pedicle or interpositional grafts. Hydroxyapatite augmentation of the mandible. Guided bone regeneration (osteopromotion). Maxillary augmentation:
	 Goals of advanced preprosthetic surgery. Patient evaluation: Bone evaluation. Soft tissue evaluation. Treatment planning. Mandibular augmentation: Superior border augmentation. Inferior border augmentation. Pedicle or interpositional grafts. Hydroxyapatite augmentation of the mandible. Guided bone regeneration (osteopromotion). Maxillary augmentation: Onlay bone grafting
	 Goals of advanced preprosthetic surgery. Patient evaluation: Bone evaluation. Soft tissue evaluation. Treatment planning. Mandibular augmentation: Superior border augmentation. Inferior border augmentation. Pedicle or interpositional grafts. Hydroxyapatite augmentation of the mandible. Guided bone regeneration (osteopromotion). Maxillary augmentation: Onlay bone grafting. Interpositional bone graft.
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	 Goals of advanced preprosthetic surgery. Patient evaluation: Bone evaluation. Soft tissue evaluation. Treatment planning. Mandibular augmentation: Superior border augmentation. Inferior border augmentation. Pedicle or interpositional grafts. Hydroxyapatite augmentation of the mandible. Guided bone regeneration (osteopromotion). Maxillary augmentation: Onlay bone grafting. Interpositional bone graft. Sinus lift. Tuberoplasty. Soft tissue surgery for ridge extension of the mandible:
	 Goals of advanced preprosthetic surgery. Patient evaluation: Bone evaluation. Soft tissue evaluation. Treatment planning. Mandibular augmentation: Superior border augmentation. Inferior border augmentation. Pedicle or interpositional grafts. Hydroxyapatite augmentation of the mandible. Guided bone regeneration (osteopromotion). Maxillary augmentation: Onlay bone grafting. Interpositional bone graft. Maxillary hydroxyapatite augmentation. Sinus lift. Tuberoplasty. Soft tissue surgery for ridge extension of the mandible: Transpositional flap vestibuloplasty.
	 Goals of advanced preprosthetic surgery. Patient evaluation: Bone evaluation. Soft tissue evaluation. Treatment planning. Mandibular augmentation: Superior border augmentation. Inferior border augmentation. Pedicle or interpositional grafts. Hydroxyapatite augmentation of the mandible. Guided bone regeneration (osteopromotion). Maxillary augmentation: Onlay bone grafting. Interpositional bone graft. Maxillary hydroxyapatite augmentation. Sinus lift. Tuberoplasty. Soft tissue surgery for ridge extension of the mandible: Transpositional flap vestibuloplasty. Vestibule and floor-of-mouth extension
	 Goals of advanced preprosthetic surgery. Patient evaluation: Bone evaluation. Soft tissue evaluation. Treatment planning. Mandibular augmentation: Superior border augmentation. Inferior border augmentation. Pedicle or interpositional grafts. Hydroxyapatite augmentation of the mandible. Guided bone regeneration (osteopromotion). Maxillary augmentation: Onlay bone grafting. Interpositional bone graft. Maxillary hydroxyapatite augmentation. Sinus lift. Tuberoplasty. Soft tissue surgery for ridge extension of the mandible: Transpositional flap vestibuloplasty. Vestibule and floor-of-mouth extension procedures.

		 Submucosal vestibuloplasty. 	
		 Maxillary vestibuloplasty with tissue grafting. 	
		Correction of abnormal ridge relationships:	
		– Segmental alveolar surgery in the partially	
		edentulous patient.	
		- Correction of skeletal abnormalities in the	
		totally edentulous patient.	
7.	Principles of endodontic	• Introduction.	
	surgery	Definition.	
		Drainage of an abscess.	
		Perianical surgery	
		- Indications.	
		 Contraindications (or cautions). 	
		– Surgical procedure.	
		a. Flap design.	
		b. Anaesthesia.	
		c. Incision and reflection.	
		d. Periapical exposure.	
		e. Curettage.	
		f. Root-end resection.	
		g. Root-end preparation and restoration.	
		h. Radiographic verification.	
		1. Flap replacement and suturing.	
		J. Postoperative instructions.	
		K. Suture removal and evaluation.	
		• Corrective surgery:	
		- indications:	
		a. Flocedulateriors. b. Resorptive perforations	
		- Contraindications	
		a. Anatomical considerations.	
		b. Location of perforation	
		c Accessibility	
		 Considerations 	
		 Surgical procedure 	
		Healing	
		• Determine the actiology of root canal treatment	
		failure.	
		• Surgical difficulties.	
8.	Transdental Fixation	• Definition.	
		Indications.	
		• Diagnosis.	
		• Techniques.	
		Postoperative management	
9.	Reimplantation of teeth	Introduction, definition.	
	•	• Indications.	
		Operation technique.	
		• Splint, Post-operative management.	

		Complications.	
		• Prognosis.	
10.	Hemisection, trisection	Definitions.	
	and root amputation	Indications.	
		Contraindications.	
		Diagnosis.	
		• Operative procedures and techniques.	
11.	Transplantation of teeth	Introduction.	
	-	Definition.	
		Indications.	
		Diagnosis.	
		Operative procedure.	
12.	Cysts of the oral cavity	Introduction.	
		Definition.	
		Classifications of the cysts.	
		• Pathogenesis.	
		• Diagnosis.	
		Clinical features.	
		• Investigations.	
		Radiographic examination.	
		Aspiration biopsy.	
		• Biopsy.	
		• Cysts of the jaws:	
		- Epithelial cysts of the jaws:	
		a. Odontogenic:	
		I. Developmental:	
		1) Primordial (kerato) cyst.	
		2) Gingival cyst of infants.	
		3) Gingival cyst of adults.	
		4) Lateral periodontal cyst.	
		5) Dentigerous cyst.	
		6) Eruption cyst.	
		/) Calcifying odontogenic cyst.	
		1) Padicular over	
		2) Residual cyst	
		2) Residual Cyst. 3) Inflammatory collateral cyst	
		4) Para-dental cyst	
		h Non-odontogenic:	
		I. Nasopalatine duct cvst.	
		II. Incisve canal cvst.	
		III. Median palatine cvst.	
		IV. Median alveolar.	
		V. Median mandibular.	
		VI. Globulomaxillary cyst.	
		VII. Naso-labial (naso-alveolar) cyst.	
		 Nonepithelial cysts of the jaws: 	
		a. Simple bone cyst:	

I. Traumatic cyst.
II. Haemorrhagic cyst.
III. Solitary cyst.
b. Aneurismal bone cyst.
• Cysts associated with the maxillary antrum:
 Benign mucosal cyst.
 Surgical ciliated cyst.
• Cysts of the soft tissues of the face, neck and mouth:
 Dermoid & epidermoid cyst.
 Lympho-epithelial cyst.
 Thyroglossal duct cyst.
 Anterio-median lingual cyst.
 Naso-pharyngeal cyst.
 Cystic hygroma.
 Cysts of the salivary gland:
a. Extravasations cyst.
b. Retention cyst.
c. Ranula.
• Surgical management of cysts and cystlike lesions of
the jaws:
– Introduction.
- Enucleation:
a. Definition.
b. Indications.
d. Technique
– Marsupialisation:
a Definition
b Indications
c. Advantages and disadvantages.
d. Technique.
 Marsupialisation followed by Enucleation:
a. Definition.
b. Indications.
c. Advantages and disadvantages.
d. Technique.
 Enucleation with curettage:
a. Definition.
b. Indications.
c. Advantages and disadvantages.
d. Technique.

4. Clinical course for third and fourth year:

• Principles, practice of cross infection control

Students are required to learn and perform the following:

- Maintain an aseptic technique throughout all surgical procedures.
- Improve knowledge related to infection control & sterilization techniques.

- Principles, practice of history taking and patient examination *Students are required to learn and perform the following:*
 - Obtain a comprehensive history (detailed dental history & related medical history).
 - Perform an appropriate physical examination.
 - Interpret and organize for further investigation/s.
- Principles, practice of local anaesthesia & its complication *Students are required to learn and perform the following:*
 - Students are required to be competent at infiltration & block techniques of L.A.
- Principles, practice of dental extraction under L.A & its complication *Students are required to learn and perform the following:*
 - To be competent at undertaking removal of all teeth & their roots; and whenever necessary steps of trans-alveolar extraction technique skilfully.
- Medical problems affecting oral surgery
 - Students are required to learn and perform the following:
 - Diagnosis of medical emergencies & emergency drugs used.
 - Carry out resuscitation (CPR), treat an anaphylactic reaction, upper respiratory tract obstruction, haemorrhage, inhalation or ingestion of foreign bodies & diabetic trauma.
 - Management of medically compromised patients.
- Principles, practice of minor surgical procedures under L.A
 - Students are required to learn and perform the following:
 - To master basic principles, know their limitations, indications of patient referral for secondary care.
- Principles, practice of diagnosis & management of emergency, maxillofacial pathology & trauma (before referral for secondary care)

Students are required to improve their knowledge regarding the following:

- Management of acute infection.
- Implants as treatment options (know when an implant is an option in replacing missing tooth).
- Diagnosis of dento-facial anomalies treatment and orthgnathic surgery.
- Management of oral cancer.
- Principles of assessment of maxillofacial trauma.

5. Teaching and learning methods:

- Lectures.
- Clinical sessions and chair side teaching.
- Tutorials, seminars and small group discussions.
- Seminars.
- Demonstrations and group discussions.
- Case presentation.
- The student will take the advantage of all audio-visual aids available both in the library such as:
 - Clinical photographs and slides.
 - Video-cassettes, CDs, DVDs.
 - Computer assisted learning programs and internet facility.
 - Books, atlases and newsletters.

6. Student assessment methods:

First Mid-Term examination	To assess basic knowledge, intellectual skills, general
(2 hours)	transferable skills and students' progress until the middle
	of the year.
Final-Oral examination	To assess basic knowledge, intellectual skills and general
(45 min – 1 hour)	transferable skills for the complete academic year (at the
	end of the Fourth year).
Final-Clinical examination	To assess professional and practical skills, intellectual
	skills and general transferable skills for the complete
	academic year (at the end of the Fourth year).
Final-Written examination	To assess basic knowledge, intellectual skills and general
(3 hours)	transferable skills for the complete academic year (at the
	end of the Fourth year).

b) Assessment schedule:

First Mid-Term examination	In the middle of the academic year for all students.
Final-Oral examination	This is held at the end of the Fourth year.
Final-Clinical examination	This is held at the end of the Fourth year.
Final-Written examination	This is held at the end of the Fourth year.

c) Weighting of assessment:

First Mid-Term examination	10%	20 marks
Final-Oral examinationAt the end of the Fourth year.		
Final-Clinical examination	At the end of the Fourth year.	
Final-Written examination	At the end of the Fourth year.	

d) The minimum passing score is 120 marks (60%)

• Passing grades are as follow:

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Excellent	85% - 100%
Very good	75% - 84,99%
Good	65% - 74,99%
Fair (pass)	60% - 64,99%
Weak	35% - 59,99%
Very weak	Less than 35%

7. List of reference:

- Course notes: department book:
- Essential books (textbooks):
 - Contemporary Oral and Maxillofacial Surgery; Peterson I.J & EA.
 - Text book of oral and maxillofacial surgery: Srinivasan B.
 - Killey & Kays outline of oral surgery part- 1: Seward GR & etal.
 - Handbook of medical emergencies in the dental office, Malamed SF.
- Recommended books:
 - Impacted teeth; Alling John F & etal.
 - Principles of oral and maxillary surgery: Vol 1, 2 & 3 Peterson LJ & etal.
 - Extraction of teeth: Howe, GL.

- Minor Oral Surgery: Howe. GL.
- Essentials of safe dentistry for the medically compromised patients; Mc Carthy FM.
- Periodicals, web sites, etc:

8. Other Resources/Facilities required for teaching and learning to achieve the above ILOs (for example, Field trips):

- Faculty lecture Halls.
- Audiovisual aid (data shows, sound systems. overhead and slide projectors).
- Sufficient numbers of dental units.
- Dental instruments and equipments.
- Dental materials.
- Computers to encourage students to master communication and information technology skills.
- Digital camera for documentation of clinical cases.
- Appropriate teaching accommodation.
- Computer/Lap top.
- Black and white board (and markers).
- Materials and study models required by students.
- Providing lecture notes, manuals and sheets.
- Faculty library.
- Electronic library.

9. We certify that all of the information required to deliver this course is contained in the above specification and will be implemented

Title	Signature
Head of Department	
Department of Study and Examination Faculty of Dentistry, University of Tripoli	
Dean of Faculty of Dentistry University of Tripoli	