**National Commission for Academic Accreditation & Assessment**

**Course Specification**

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| Institution : College of Dentistry University of Dammam |
| College/Department : Biomedical and Dental Sciences |

**A Course Identification and General Information**

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| 1. Course title and code: Clinical Oral Surgery - BDS 541 |
| 2. Credit hours : 3 |
| 3. Program(s) in which the course is offered. Bachelor of Dental Surgery(If general elective available in many programs indicate this rather than list programs) |
| 4. Name of faculty member responsible for the course  Dr. Faiyaz Ahmed Syed |
| 5. Level/year at which this course is offered : 2ndsemester - 5th year |
| 6. Pre-requisites for this course (if any) Oral surgery and general practice - BDS 441 |
| 7. Co-requisites for this course (if any) :None |
| 8. Location if not on main campus |

**B Objectives**

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| 1. Summary of the main learning outcomes for students enrolled in the course.  The aim of this course is to enable students to recognize and discuss the management of oral cancer, tumours of the jaw, disorders of the salivary glands and TMJ, jaw discrepancies and cleft lip and palate. In addition to developing skills in diagnosis and treatment planning, the student should develop, communication skills and surgical skills to competently perform forceps exodontia, assist surgical extractions ; and he must display professional behavior towards patients and all members of the dental team. |
| 2. Briefly describe any plans for developing and improving the course that are being implemented. (eg increased use of IT or web based reference material, changes in content as a result of new research in the field)  Innovative ways of teaching that increase student involvement are being used and developed. Students broadened their knowledge by preparing patient information brochures.  A structured checklist was developed to help the students assess and improve themselves in their clinical performance; this checklist continues to be further improved. |

**C. Course Description** (Note: General description in the form to be used for the Bulletin or Handbook should be attached)

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| 1 Topics to be Covered | | |
| List of Topics | No of  Weeks | Contacthours |
| Oral Cancer | 2 | 2 |
| Salivary Gland disease | 2 | 2 |
| TMJ disorders | 3 | 3 |
| Tumors of the jaw | 2 | 2 |
| Orthognathic surgery | 2 | 2 |
| Cleft Lip and Palate | 2 | 2 |

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| 2 Course components (total contact hours per semester): | | | | |
| Lecture:  13 | Tutorial: | Laboratory | Practical/Field work/Internship  90 | Other: |

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| 3. Additional private study/learning hours expected for students per week. (This should be an average :for the semester not a specific requirement in each week)  2 hours |

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| 4. Development of Learning Outcomes in Domains of Learning  For each of the domains of learning shown below indicate:   * A brief summary of the knowledge or skill the course is intended to develop; * A description of the teaching strategies to be used in the course to develop that knowledge or skill; * The methods of student assessment to be used in the course to evaluate learning outcomes in the domain concerned. |
| **a. Knowledge** |
| (i) Description of the knowledge to be acquired  Program ILO’s  ILO 1.15 Discuss the principles of oral surgery including exodontia.  ILO 1.16 Describe the techniques of local anesthesia and their complications.  ILO 1.17 Discuss the indications and complications of dento-alveolar surgery.  ILO 1.21 Discuss the postoperative instructions and care for pediatric and adult dental patients.  ILO 1.34 Discuss the management of medical emergencies encountered in dental clinics  **After successfully completing this course the student should be able to**  recognize and discuss the management of oral cancer, tumours of the jaw, disorders of the salivary glands and TMJ, jaw discrepancies and cleft lip and palate; and patients requiring tooth extraction.  **Intended learning outcome from lectures on Oral cancer**  **ILO 1.4 :** Describe the innervations, blood supply, lymphatic drainage, bone structure and musculature of the oro-facial region.  **Objectives**  At the end of the 2 classes on 'Oral Cancer' the student should be able to:   1. List the etiology of oral cancer 2. Describe the lymphatic drainage of cancer of the oral cavity and its clinical implications. 3. Describe premalignant lesions and conditions 4. Perform screening for oral cancer 5. Recognize oral cancers presenting at different stages in various sites in the mouth 6. Classify and stage oral cancer and discuss how this relates to treatment and prognosis 7. Describe the Indications, advantages and disadvantages of Surgery, Radiotherapy and Chemotherapy 8. Determine the urgency of referral of a patient with a suspicious lesion in the mouth   **(10)** Describe the requirements of a satisfactory biopsy and say how it is to be performed  **(11)** Describe the role of the general dental practitioner before and after treatment for oral cancer  **Intended learning outcome from lectures on Salivary gland disease**  **Objectives**  At the end of the 2 classes on ‘Salivary Gland Disease’ the student should be able to  **(1)** . Recognize clinical features of infections of the salivary glands  **(2)**. List the relevant information to be elicited during history taking, from patients with  salivary gland disorders  **(3).** Differentiate on clinical grounds between infection, obstruction, benign and  malignant neoplasms of the salivary glands  **(4).** Discuss and ask for relevant investigations to help in the diagnosis of salivary gland disorders  **(5)**. Evaluate the results of the investigations done for disorders of the salivary glands  **(6).** Describe treatment procedures and their indications  **(7).** Discuss the potential complications of treatment procedures  **Intended learning outcome from lectures on TMJ disorders**  **Objectives**  At the end of 3 classes on TMJ disorders the student should be able to   1. Recognize the clinical features of temporomandibular disorders   **(2)**. List the relevant information to be elicited during history taking, from patients with  Temporomandibular disorders  **(3).** Distinguish between disorders of the masticatory muscles from those centered within the temporomandibular joint itself  **(4).** Discuss and ask for relevant investigations to help in the diagnosis of TMJ disorders  **(5)**. Evaluate the results of the investigations done for disorders of the TMJ  **(6)** Discuss the non-surgical management techniques of temporomandibular disorders  **(7)** Identify those patients with temporomandibular disorders who would benefit from  surgical treatment  **(8)** Describe surgical approaches to the TMJ and anticipate anatomical sources of surgical complications  **(9)** Evaluate the advantages and disadvantages of common surgical treatments of the TMJ  **(10)** Describe how to reduce a discloced TMJ  **Intended learning outcome from lectures on Orthognathic surgery**  At the end of 2 lectures on orthognathic surgery the student should be able to   1. Recognize and assess patients with (i) mandibular deficiency or prognathism ; (ii)vertical maxillary deficiency or excess; (iii) transverse maxillary deficiency   (2) Discuss the treatment of dentofacial abnormalities  (3) Select cases where surgical treatment is likely to be necessary in addition to  orthodontic treatment  (4) Plan for orthognathic surgery and discuss the treatment phases in the correction of  dentofacial abnormalities  (5) Explain the basic osteotomy procedures including their indications, risks and  Complications  **Intended Learning outcome from lectures on tumors of the jaw**  At the end of 2 lectures on tumors of the jaw the student should be able to  (1) Classify tumors of the jaw  (2) Discuss the tumors of the jaw and modalities for their treatment.  (3) Discuss the types of surgical operations used for the removal of jaw tumors  (4) Discuss the factors that determine the type of therapy  (5) Discuss reconstruction of jaws after removal of tumors  **Intended learning outcome from lectures on Cleft Lip and Palate**  **Objectives**  At the end of 2 lectures on Cleft lip and Palate, the student should be able to   1. Discuss the normal development of the lip, nose, primary and secondary palate 2. Describe the development of the cleft lip and palate 3. State the factors that cause cleft deformities 4. Diagnose and classify cleft lip and palate 5. Describe the deformity in cleft lip and palate patients 6. Discuss the problems of the cleft patient 7. Discuss the management of the cleft patient 8. State the principles and techniques of cleft lip and palate repair 9. State the reasoning and timing of cleft lip and palate repair 10. Discuss Alveolar bone grafting in cleft lip and palate patients 11. State the time table and sequence of treatment for cleft lip and palate repair |
| (ii) Teaching strategies to be used to develop that knowledge   * Lectures using multimedia * Animated videos to explain new concepts * Presentation and discussions of case senarios * Assignments |
| (iii) Methods of assessment of knowledge acquired   * Short-answer questions * Multiple choice questions (MCQs) * Short essay questions (SEQs) * Viva - voce |
| **b. Cognitive Skills** |
| (i) Description of cognitive skills to be developed  II.3 Analyze and interpret data collected from the patient’s history, clinical, radiographic and other investigations.  Program ILO .II.8. Apply pharmacological principles to appropriately prescribe the relevant therapeutic agents required to suit patients’ needs and physical condition.    II.12. Select appropriate surgical armamentarium including local anesthesia and suture materials.  II.13 Assess the difficulties associated with various dento-alveolar surgical procedures.  **After successfully completing this course the student should be able to**   * Use appropriate diagnostic tools, interpret examination findings and test results to diagnose oral cancer, jaw discrepancies, cleft lip and palate, common disorders of the salivary glands ,TMJ and tumors of the jaw * Make treatment plans keeping in view complications * Distinguish between the difficult case which is best referred to a consultant, and the simple case which can be treated by himself. * Identify patients’ with diabetes, hypertension and other medical conditions that present to the dental clinic and plan their surgical treatment accordingly |
| (ii) Teaching strategies to be used to develop these cognitive skills   * Lectures using multimedia * Animated videos * Discussions * Clinical evaluation using a checklist and providing the student feedback after every clinical session |
| (iii) Methods of assessment of students cognitive skills   * Short-answer questions; (MCQs) * Viva - voce * Structured Clinical Operative Test (SCOT) * Clinical assessment with feedback using a checklist. |
| **c. Interpersonal Skills and Responsibility** |
| (i) Description of the interpersonal skills and capacity to carry responsibility to be developed   * The student must develop a compassionate, kind and caring attitude towards patients * The student must take responsibility of the patient’s operative and postoperative care * Communicate effectively with faculty, patients and all members of the dental team. |
| (ii) Teaching strategies to be used to develop these skills and abilities   * Chair side teaching * Role modeling |
| (iii) Methods of assessment of students interpersonal skills and capacity to carry responsibility   * Supervision and Continuous Assessment with feedback by the instructors |
| **d. Communication, Information Technology and Numerical Skills** |
| (i) Description of the skills to be developed in this domain.  **At the end of the course, students will be able to:**   * Communicate effectively with the patient and all members of the dental team. * Write reference letters to other doctors |
| (ii) Teaching strategies to be used to develop these skills   * Chair side teaching * Role modeling * Structured Clinical Operative Test (SCOT) |
| (iii) Methods of assessment of students numerical and communication skills   * Clinical assessment with feedback using a checklist * Assignments |
| **e. Psychomotor Skills (if applicable)** |
| Program ILO  III.5 Perform various techniques of local anesthesia and manage their complications.  III.6 Perform simple and surgical extraction of erupted teeth and buried roots.  III.15 Manage relevant medical emergencies in the dental setting.  (i) Description of the psychomotor skills to be developed and the level of performance required  After completing this course the student should be able to   * Safely administer local anesthesia and perform forceps extraction competently * Manage complications such as crown or root fractures and bleeding that may occur during exodontia * Assist surgical extractions and perform the basic steps in surgical extraction, viz. placing an incision, reflecting a flap, removing bone, splitting the tooth and suturing |
| (ii) Teaching strategies to be used to develop these skills   * Demonstrations * Supervision with feedback using a checklist |
| (iii) Methods of assessment of students psychomotor skills   * Continuous assessments on the students’ performance using a checklist * Final Clinical examination using SCOT |

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| 5. Schedule of Assessment Tasks for Students During the Semester | | | |
| Assessment | Assessment task (eg. essay, test, group project, examination etc.) | Week due | Proportion of Final Assessment |
| 1 | 1st written exam | 5th | 10 |
| 2 | Preparation of patient information brochure | 10th | 10 |
| 3 | Mid term written exam | 11th | 10 |
| 4 | Continuous clinical assessment (logbook) | 14th | 30 |
| 5 | Final written exam | 13th | 20 |
| 6 | Final Clinical exam | 15th | 20 |

**D. Student Support**

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| 1. Arrangements for availability of teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)  All staff are available for feedback and provide the student with feedback after the clinical session.  In addition the teaching staff are available for 4 hours each week (office hours) for the student to seek consultation and academic advice. |

##### E Learning Resources

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| 1. Required Text(s)  1) Peterson L, Ellis E, Hupp, J and Tucker, M. Contemporary Oral And Maxillofacial  Surgery Mosby, C.V.Co.Ltd, 5th Edition 2008 |
| 2. Essential References  1) Peterson L, Ellis E, Hupp, J and Tucker, M. Contemporary Oral And Maxillofacial  Surgery Mosby, C.V.Co.Ltd, 5th Edition 2008  (2) Pedlar & Frame. Oral & Maxillofacial Surgery – An objective based textbook,  Churchill Livingstone 2nd edition, 2007.  (3) Master Dentistry Volume 1. Coultland, Horner, Sloan, Theaker. Churchill  Livingstone. 2nd edition 2008 |
| 3- Recommended Books and Reference Material (Journals, Reports, etc) (Attach List) |
| 4-.Electronic Materials, Web Sites etc  DVD of Virtual surgery videos |
| 5- Other learning material such as computer-based programs/CD, professional standards/regulations |