**National Commission for Academic Accreditation & Assessment**

**Course Specification**

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| Institution **University of Dammam** |
| College/Department **College of Dentistry/ Department of Preventive Dental Sciences** |

**A Course Identification and General Information**

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| 1. Course title and code: **Preventive Periodontics PDS 461** |
| 2. Credit hours **04** |
| 3. Program(s) in which the course is offered.(If general elective available in many programs indicate this rather than list programs) **Bachelor of Dental Surgery** |
| 4. Name of faculty member responsible for the course  **Dr. Khalid Hassan** |
| 5. Level/year at which this course is offered**: 4th Year** |
| 6. Pre-requisites for this course (if any)  **: BDS341, BDS322, MICRO331, PATH311** |
| 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 course enables the student to acquire recognition skills for the diagnosis of periodontal disease. The etiology and pathogenesis of periodontal disease, including the role of dental plaque, calculus and the local factors, will be presented and discussed. This will include host defense immunological mechanism, as well as the immunopathogenesis of gingivitis and periodontitis. The student will be made aware of prevalence of periodontal disease and the factor that affect the prevalence and severity of periodontal disease. The histopathological and radiographic changes in various forms of periodontal disease and their clinical correlation will be presented. Student will also be able to know the normal criteria of gingival and how to differentiate between normal and abnormal gingival, be able to classify periodontal disease, which will include the periodontal microbiology, as well as the local predisposing factors for gingivitis and periodontal disease. They will have an understanding of the purpose of periodontal therapy, including a thorough knowledge of periodontal instrumentation, and be able to customize a treatment plan for patients.**  **Regarding the clinical component, students will learn plaque control, methods of patient's education and motivation. They will learn to examine record and diagnose periodontal diseases, formulate an adequate treatment plan, and learn the objective and rationale of the various methods of treatment, by implication therefore the method of scaling and root planning. The students should then be able to treat simple periodontal cases and evaluate the results of their treatment.** |
| 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)  **The department of Preventive Dental Sciences carries out routine (short-term) review at the end of the course. The following topics are addressed by the department:**   * **Review of course contents in terms of recent advances and discoveries** * **Review of course implementation** * **Identifying necessary actions for the next course implementation** * **Ensuring explicit statements of aims, objectives, strategies for teaching, learning and assessment** * **Analysing the extent of student achievements and attainments in terms of outcomes** * **Identifying additional resources required for the future implementation including computer-assisted learning packages, and using video and multimedia in teaching and training**   **Inputs to routine evaluation:**   * **Student and faculty opinion** |

**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 | Contact hours **Lectures, and clinics.** |
| **Preventive Periodontics** |  |  |
| **Anatomy and histology of the periodontium** | 1 | 8 |
| **The epidemiology of gingival and periodontal diseases** | 1 | 8 |
| **Classification of diseases and conditions affecting the periodontium** |
| **Periodontal microbiology** | 1 | 4 |
| **Predisposing factors to the aetiology of periodontal diseases** |
| **Pathogenesis of periodontal diseases** | 1 | 4 |
| **The immunopathogenesis of periodontal diseases** |
| **Defensive mechanisms of the gingiva** | 1 | 8 |
| **The histopathogenesis of periodontal disease** |
| **The periodontal pocket** | 2 | 16 |
| **Alveolar bone loss and patterns of bone destruction** |
| **Smoking and the periodontium** | 1 | 8 |
| **Clinical features of plaque-induced gingivitis** |
| **Chronic periodontitis** | 2 | 16 |
| **Aggressive / Refractory periodontitis** |
| **Occlusion and periodontal disease** | 1 | 8 |
| **Clinical and radiographic examination of the periodontium** |
| **Periodontal charting** | 1 | 8 |
| **The treatment plan** |
| **Plaque control for the periodontal patient** | 1 | 10 |
| **Supportive periodontal therapy** |
| **Periodontal instruments** | 1 | 12 |
| **Principles of periodontal instrumentation** | 1 | 10 |
| **Total** | 15 | 120 |

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| 2 Course components (total contact hours per semester): | | | | |
| Lecture: **30** | Tutorial**: 0** | Laboratory **0** | Practical/Field work/Internship | Other: clinical sessions **90** |

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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)  **10 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   1. **1 Discuss development, structure and functions of oral tissues.** 2. Describe the anatomy and histology of the hard and soft tissues of the normal periodontium.    1. **Discuss the development of periodontal diseases.**   1. Outline the classification of periodontal diseases.  2. Describe the etiology , pathogenesis histopathogenesis and immune pathogenesis of gingival and periodontal diseases, histopathological and radiographic changes.   1. **29 Discuss the various treatment options available to treat periodontal conditions.** 2. Discus the components of a comprehensive treatment plan.   2. Describe the function and usages of periodontal instruments.  3. Describe the non-surgical approach to therapy. |
| (ii) Teaching strategies to be used to develop that knowledge  • **Lectures**  **• Topic Seminars** |
| (iii) Methods of assessment of knowledge acquired  • **Two Quizzes**  **• Pop-up Quizzes**  **• Final exams composed of- MCQs**  **- Fill in space**  **- Essays.** |
| **b. Cognitive Skills** |
| (i) Description of cognitive skills to be developed  **1.19 Select appropriate instruments for various periodontal procedures**.  1. Identify and describe the functions and usages of periodontal instrumentation.   * 1. **Establish a prognosis for periodontally involved teeth and dental prostheses, including implants.**  1. Analyze the clinical parameters and radiographic findings used in determing a periodontal diagnosis and prognosis. 2. Formulate a trestment plan for periodontally involved teeth.    1. **Evaluate the outcome of periodontal treatment for periodontally involved teeth and dental prostheses, including implants.** 3. Interpret and evaluate clinical data in order to assess the response of patients to periodontal treatmentfor periodontally involved teeth and dental prostheses, including implants.   2. Assess the role of dental care professionals in periodontal therapy and is able to prescribe treatment.   1. Integrate periodontal findings into the patient’s comprehensive treatment plan and understand how the periodontal status of the patient will impact on his/her treatment plan.    1. **Establish a periodontal maintenance program.** 2. Evaluate the results of periodontal treatment and establish and monitor a suitable recall maintenance programme for patients. |
| (ii) Teaching strategies to be used to develop these cognitive skills  • **Lectures**  **• Topic Seminars**  **• Reading assignment** |
| (iii) Methods of assessment of students cognitive skills  • **Graded Quizzes**  **• Pop-up Quizzes**  **• Continuous Practical Assessment**  **• Final exams composed of scenario-based MCQs, essays, fill in space and matching items.**  **• Graded Achieved Requirements.**  **• Oro-clinical Exam through a panel of at least two faculty members.** |
| **c. Interpersonal Skills and Responsibility** |
| (i) Description of the interpersonal skills and capacity to carry responsibility to be developed |
| (ii) Teaching strategies to be used to develop these skills and abilities |
| (iii) Methods of assessment of students interpersonal skills and capacity to carry responsibility |
| **d. Communication, Information Technology and Numerical Skills** |
| (i**) Description of the skills to be developed in this domain.** |
| (ii) Teaching strategies to be used to develop these skills |
| (iii) Methods of assessment of students numerical and communication skills |
| **e. Psychomotor Skills (if applicable)** |
| 1. Description of the psychomotor skills to be developed and the level of performance required 2. **18 Conduct periodontal examination and monitoring procedures.** 3. Examine the periodontium clinically and radiographically. 4. Clinically monitor the results of periodontal treatment, and record findings in a maintenance program.   **1.19 Perform scaling, polishing, subgingival root debridement, and re-contouring of restorations.**   1. Perform scaling and root planning. 2. Perform oral hygiene instruction. 3. Prescribe and monitor the use of anti-infective agents. 4. Measure and record periodontal indices accurately, according to current guidelines. |
| (ii) Teaching strategies to be used to develop these skills  • **Regular demonstrations with every step**  • **Supervised practice**  **• Self practice** |
| (iii) Methods of assessment of students psychomotor skills  • **Continuous assessments on the students’ performance**  **• Structured direct observation with checklists for ratings by faculty**  **• Final clinical exams.** |

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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 | **Pop-up Quizzes** | **Every 3weeks** | **10%** |
| 2 | **Quiz 1** | **5 weeks after** | **10%** |
| 3 | **Quiz 2** | **5 weeks after** | **10%** |
| 4 | **Clinical Requirements** | **15 weeks after** | **30%** |
| 5 | **Written Exam** | 15 **weeks after** | **20%** |
| 6 | **Clinical** **Exam** | **15 weeks after** | **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)  **Teaching staff are available for student consultations every week for 4 hours.** |

##### E Learning Resources

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| 1. Required Text(s)  **Carranza’s Clinical Periodontology. Newman M, Takei H and Carranza F, 10th**  **Edition, 2006, Saunders** |
| 2. Essential References  **None** |
| 3- Recommended Books and Reference Material (Journals, Reports, etc) (Attach List) |
| 4-.Electronic Materials, Web Sites etc   1. Journal of periodontology 2. Journal of clinical periodontology |
| 5- Other learning material such as computer-based programs/CD, professional standards/regulations |

**F. Facilities Required**

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| Indicate requirements for the course including size of classrooms and laboratories (ie number of seats in classrooms and laboratories, extent of computer access etc.) |
| 1. Accommodation (Lecture rooms, laboratories, etc.)  **• One lecture room**  **• 29 clinics**   * **Phantom lab** |
| 2. Computing resources  • **Computing facilities are available for students at the Dental College.** |
| 3. Other resources (specify --eg. If specific laboratory equipment is required, list requirements or attach list) |

**G Course Evaluation and Improvement Processes**

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| 1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching  • **This is done by the Quality Control Department of the College.** |
| 2 Other Strategies for Evaluation of Teaching by the Instructor or by the Department   1. **Direct personal communication with the student.** |
| 3 Processes for Improvement of Teaching   * **Updating lectures and using the high technology.** * **Adding videos to lectures** * **Lectures should be including the recent researches.** * **Attending workshops about effective teaching** |
| 4. Processes for Verifying Standards of Student Achievement (eg. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)  **Both written and practical exam marking were checked with different supervisor.** |
| 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.  **Implementing the suggestions obtained from the assisting staff members and from students feedback.** |

**Name of Course Instructor: Khalid Hassan**

**Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date Report Completed: June 2014**

**Program Coordinator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date Received: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**