**National Commission for Academic Accreditation & Assessment**

**Clinical Fixed Prosthodontics II, SDEN 641**

**Course Specification**

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| Institution: **University of Dammam** |
| College/Department: **College of Dentistry** |

**A Course Identification and General Information**

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| 1. Course title and code: **Clinical Fixed Prosthodontics II, SDEN 641** |
| 2. Credit hours: **2** |
| 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  **Professor Amr Aly Mahrous** |
| 5. Level/year at which this course is offered; 6th Year Male Students - Academic Year 2014/2015 |
| 6. Pre-requisites for this course (if any)  1. SDEN 542: Clinical Fixed Prosthodontics-I  2. SDEN 422: Introduction to Fixed Prosthodontics.  3. BDS 411: Oral Diagnosis-II  4. RDS 471: Restorative Procedures-I  5. PDS 461: Preventive Periodontics |
| 7. Co-requisites for this course (if any)  None |
| 8. Location if not on main campus  New Campus for Lectures & Old Campus for the Clinical Sessions |

**B Objectives**

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| 1. Summary of the main learning outcomes for students enrolled in the course.  It is a comprehensive clinical course, which allows students to demonstrate their skills in examining, diagnosing, treatment planning and complete the fixed prosthodontic treatment within an overall comprehensive treatment plan. |
| 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) |

**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 |
| Examination, Diagnosis and Treatment Planning | 2 | 2 |
| Esthetic considerations in fixed prosthodontics | 2 | 2 |
| Occlusal considerations in fixed prosthodontics | 2 | 2 |
| Preparation Modifications in Special clinical situations | 2 | 2 |
| Resin-bonded FPD | 1 | 1 |
| Follow-up Care in Fixed Prosthodontics | 1 | 1 |
| Failures in Fixed Prosthodontics & how to management | 1 | 1 |
| Fixed Prosthodontic phase of implantology | 2 | 2 |

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| 2 Course components (total contact hours per semester): | | | | |
| Lecture: 14 | Tutorial: | Clinical contact hours): 45 | Practical/Field work/Internship | 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) |

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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** |
| **By the end this course the students will be able to** Describe diagnosis and treatment planning of fixed prosthodontic restorations.Discuss the effects of tooth loss and types of fixed prosthetic options.  1. Recognize periodontal considerations during fixed prosthodontic work. 2. Recognize the principles of occlusion. 3. Recognize tissue management and secondary impression techniques. 4. Recognize framework design and select metal for metal ceramic restorations. 5. Recognize porcelain application for metal ceramic restorations  Recognize the types of all-ceramic restorations.Recognize the different types of temporary and permanent cements and their applicationsRecognize and apply post operative care to his/her cases.Recognize the principles of esthetics and methods of shade selection.Recognize types, preparation, cementation technique of laminate veneers.Recognize modification of badly destructed teeth.Recognize resin-bonded restorations, teeth preparation, impression and cementation technique.Identify causes of fixed prostheses failure.Recognize fiber-reinforced composite fixed restorations.  1. Recognize types of implant supported fixed prosthesis and prosthetic construction. |
| (ii) Teaching strategies to be used to develop that knowledge:   1. Lectures; |

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| Lecture No. | Week | Date | Topics | Lecturer |
| 1. | 1st | Sunday  31.08.14 | Course Orientation | Prof. Amr |
| 2. | 2nd | 07.09.14 | Examination, Diagnosis and Treatment Planning -1 | Prof. Amr |
| 3. | 3rd | 14.09.14 | Examination, Diagnosis and Treatment Planning -2 | Prof. Amr |
| 4. | 4th | 21.09.14 | Esthetic considerations in fixed prosthodontics-1 | Dr. Babu |
| 5. | 5th | 12.10.14 | Esthetic considerations in fixed prosthodontics-2 | Dr. Babu |
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| 6. | 6th | 19.10.14 | **Resin-bonded FPD** | Dr. Khalid |
|  |  | 26.10.14 | Occlusal considerations in fixed prosthodontics-1 | Prof. Amr |
|  | | Monday  27.10.2014 | 1st Exam. | |
| 7. | 7th | Sunday  02.11.14 | Occlusal considerations in fixed prosthodontics-2 | Prof. Amr |
| 8. | 8th | 09.11.14 | **Preparation Modifications in Special clinical situations-1** | Prof. Amr |
| 9. | 9th | 16.11.14 | **Preparation Modifications in Special clinical situations-2** | Prof. Amr |
| 10. | 10th | 23.11.14 | Follow-up Care in Fixed Prosthodontics | **Dr. Babu** |
|  |  |  | **1st Exam**. | |
| 11 | 11th | Sunday 30.11.14 | Failures in Fixed Prosthodontics & how to management | **Dr. Babu** |
| 12. | 12th | 07.12.14 | Fixed Prosthodontic phase of implantology -1 | Dr. Fahad |
| 13. | 13th | 14.12.14 | Fixed Prosthodontic phase of implantology -2 | Dr. Fahad |
| 14. | 14th | 21.12.14 | Revision 1 | Prof. Amr |
| 15. | 15th | 28.12.15 | Revision 2 | **Prof. Amr** |
|  |  | .1.15 | Final Exam. |  |
|  |  | .01.15 | Mid-year vacation starts after | |

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| 2] Topic Seminars  (iii) Methods of assessment of knowledge acquired   1. Written examinations; Two Quizzes & a Final Exam. |
| **b. Cognitive Skills** |
| **By the end this course the students will be able to**   1. The students develop their cognitive skills based on interactive discussion with the supervising staff member as regard to their knowledge of types of retainers path of insertion and amount of reduction to be done and types of materials and instruments used to accomplish the task. 2. Clinical practicing of fabricating simple cases of fixed partial dentures and fabrication of custom-made and ready-made post and cores. 3. Critically analyse the rationale of different clinical conditions required to be treated by an FPD. 4. Think logically to determine the proper treatment plan of partially edentulous patients. 5. Identify and analyse information necessary to select the instruments, materials, & techniques required to execute different clinical fixed prosthodontics’ procedures |
| (ii) Teaching strategies to be used to develop these cognitive skills   1. Lectures 2. Clinical Sessions |
| (iii) Methods of assessment of students cognitive skills   1. Continuous Clinical Assessment 2. Graded Achieved Requirements. 3. Oral Exam through a panel of at least two faculty members |
| **c. Interpersonal Skills and Responsibility** |
| **By the end this course the students will be able to**   1. Work effectively in-group preparation for topic seminars & for searching indicated clinical cases. 2. Implement the code of ethics by encouraging the student to exhibit the required professional integrity in conduct, starting from infection control measures, patient communication, and assessment of risk factors and application of all concepts of quality assurance. 3. Appreciate the value of dentist-patient relationship by obtaining highest patient compliance and succeeding in communicating and providing care for a diverse population of patients. 4. Value the importance of interdisciplinary consultation and referral concepts for the patients. 5. Improve the students' ability in the clinic including respect, tolerance, understanding and concern for others fostered by mentoring, advising and interaction with colleagues by implementing the operator/assistant relationship. 6. Select, obtain, and interpret diagnostic images for the individual patient. 7. Communication skills by preparing a Seminar and Conducting a Group Discussion and Presentation skills. 8. Show respect and appropriate ethical behaviour towards patients, classmates, instructors, Technicians, and Supporting Staff Members. |
| (ii) Teaching strategies to be used to develop these skills and abilities   1. Assigning work to be completed on schedule 2. Topic presentation with audience discussion & feedback 3. Group work and discussion |
| (iii) Methods of assessment of students interpersonal skills and capacity to carry responsibility   1. Graded topic assignment and class presentations. 2. Evaluation of students’ behavior by instructors. |
| **d. Communication, Information Technology and Numerical Skills** |
| **By the end this course the students will be able to**   1. Communicate effectively with patients, assistants, technicians, colleagues and faculty both orally and in writing. 2. Use the Internet and hand-held devices for communication. |
| (ii) Teaching strategies to be used to develop these skills   1. Clinical and laboratory demonstrations 2. Group discussions with special emphasis on the explanation of the basics of effective communication with the laboratories. |
| (iii) Methods of assessment of students numerical and communication skills   * Evaluation of individual and group discussions and presentations by instructors. |
| **e. Psychomotor Skills (if applicable)** |
| **By the end this course the students will be able to**   1. Prepare pre-treatment record using the college filing system with a comprehensive history taking. 2. Perform thorough clinical examinations with adequate professional integrity. 3. Select, obtain, and interpret radiographs, diagnostic images, and diagnostic casts. 4. Perform high quality fixed prosthodontic treatment 5. Participate with all dental team members in the management of the patient. |
| (ii) Teaching strategies to be used to develop these skills   1. Demonstrations 2. Self practice by completing a set number of clinical cases |
| (iii) Methods of assessment of students psychomotor skills   1. Mini clinical evaluation exercises 2. Structured Clinical Operative Test |

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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 | Quiz 1 | 5 | 10% |
| 2 | Lab Test 1 | 5 | 15% |
| 3 | Quiz 2 | 9 | 10% |
| 4 | Lab Test 2 | 9 | 15% |
| 5 | Case-based Discussion/presentations | 14 | 10% |
| 6 | Final Written | 15 | 20% |
| 7 | Final Clinical | 15 | 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 is available during the 3-hour clinical session every week.  There are also 4 office hours for every staff/week where students may contact the staff members for any enquiries. Extra sessions can be arranged by the course director and approved by the department chairman whenever necessary or demanded by staff or students. |

##### E Learning Resources

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| 1. Required Text(s)   1. “Fundamentals of Fixed Prosthodontics” by Shillingburg, Hobo and Whitsett, 3rd Ed., Quintessence. 2. “Contemporary of Fixed Prosthodontics” by Rosentiel, Land, and Fujimoto, 3rd Ed., Elesiver. |
| 2. Essential References   1. Philips Science of Dental materials 10th ed., WB Saunders, Philadelphia 2. Management of Temporomandibular Disorders and Occlusion by Okeson J P, Mosby Co., 1997 3. Introduction to Metal Ceramic Technology by Naylor W P, Quintessence publishing Co., 1st ed., 1992 |
| 3- Recommended Books and Reference Material (Journals, Reports, etc) (Attach List) |
| 4-.Electronic Materials, Web Sites etc   1. Pubmed: <http://www.ncbi.nlm.nih.gov/sites/entrez/> 2. ACP (American College of Prosthodontists): <http://www.prosthodontics.org> 3. Science Direct: <http://www.sciencedirect.com> |
| 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.)   1. Lecture room with data show projector 2. Clinical Setup 3. Prosthdontics support lab |
| 2. Computing resources |
| 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   1. Course evaluation survey |
| 2 Other Strategies for Evaluation of Teaching by the Instructor or by the Department |
| 3 Processes for Improvement of Teaching   1. Participating in the staff development program conducted either by the College of Dentistry or the Medical Education Unit, University of Dammam. |
| 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)   1. Written examinations validity 2. Students have access to director to discuss their performance |
| 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement. |