

**Umm Al-Qura University**

**Faculty of Dentistry**

**Vice Deanship of Academic Development & Community Service**

وحدة تطوير المناهج

**Curriculum Development Unit**

**جامعــةأمالقــرى**

**كليةطبالأسنان**

**وكالة الكلية للتطوير الأكاديمي وخدمة المجتمع**

**Kingdom of Saudi Arabia**

**The National Commission for Academic Accreditation & Assessment**

**Course Specifications**

**(CS)**

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| **Course Name** | Preclinical Removable Prosthodontics and Occlusion | |
| **Course Code** | 19 03 420 05 | |
| **Academic Level** | 4th Level | |
| **Semester** | 1st& 2nd | |
| **Study Plan No** | 33 | |
| **Department** | Oral & Maxillofacial Surgery and Rehabilitation | |
| **Division** | Removable Prosthodontics | |
| **Academic Year** | 2018-2019 AD – 1439 -1440 AH | |
| **Contact hours** | Theoretical | 2 / week |
| Practical | 3 / week |
| Clinical | Non / week |
| **Total Contact Hrs** | 5 / week | |
| **Total Credit Hrs** | 7 | |

UQU-DENT:F0401-01/02

**Course Specifications**

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| **Institution:**  **Umm Al-Qura University** Date of Report: 23/05/2018 |
| **College/Department**: Faculty of Dentistry/ Oral & Maxillofacial Surgery and rehabilitation Department |

**A. Course Identification and General Information**

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| **Course title and code:** Preclinical Removable Prosthodontics and Occlusion/**19 03 420 05** |
| **2. Credit hours**: 7 credits |
| **3. Program(s) in which the course is offered: -**  Bachelor Degree of Dental medicine and surgery (B.D.S). |
| **4. Name of faculty member responsible for the course:**  **Dr. Haitham Awad Elsisi** Assistant Prof. of Removable Prosthodontics |
| **5. Level/year at which this course is offered:**  4th year (First & Second semesters) |
| **6.  Pre-requisites for this course:** Successful completion of the 3rd year courses |
| **7. Location:** The main campus. |
| 8. Mode of Instruction (mark all that apply)  45%  Yes  a. Traditional classroom What percentage?  b. Blended (traditional and online) What percentage?  Yes  5%  c. E-learning What percentage?  d. Correspondence What percentage?  f. Other What percentage?  50%  Yes  Comments: -   1. Traditional classroom: in the form of interactive Lectures 2. E-learning: in the form of group assignments. 3. Other: practical sessions for demonstration& training on for different skills of removable prosthesis construction. |

**B Objectives: -**

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| **1. What is the main purpose for this course?**  This course prepares students to deal with partially and completely edentulous patients in future years. This course aims to provide the students with the skills and the understanding of laboratory and clinical procedures required for construction of the complete and partial denture prosthesis and the materials used. A series of simulated exercises are conducted to prepare the student for the clinical phase of managing edentulous patients. |
| **2. Plans for developing and improving the course that are being implemented:**  - Adopt the student – centered learning method.  - Change in content as a result of new research in the field.  - Use of virtual labs to solidify the basic knowledge. |

**C. Course Description**: (supplied as attachment)

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| **1. Topics to be Covered** | | | | | | | | |
| List of Topics | | | | | No. of  Weeks/2 | | Contact Hours | |
| Applied Anatomy | | | | | 1 | | 4 | |
| Introduction to impression Materials | | | | | 1 | | 1 | |
| Impression recording (impression trays and techniques) | | | | | 2 | | 8 | |
| Classification of impression materials | | | | | 1 | | 1 | |
| Relief and posterior palatal seal | | | | | 1 | | 4 | |
| Non-elastic impression materials | | | | | 2 | | 2 | |
| Stability, support and Retention | | | | | 2 | | 5 | |
| Hydrocolloids impression materials | | | | | 2 | | 2 | |
| Jaw relation records (denture bases, occlusal rims) | | | | | 2 | | 8 | |
| Elastomeric impression materials | | | | | 2 | | 2 | |
| Face bow and articulators | | | | | 2 | | 5 | |
| Introduction to non-metallic denture base | | | | | 2 | | 2 | |
| Selection and arrangement ofanterior teeth | | | | | 1 | | 7 | |
| Selection and arrangement ofposterior teeth | | | | | 1 | | 10 | |
| Acrylic resin materials | | | | | 6 | | 12 | |
| Waxing up and denture processing | | | | | 1 | | 4 | |
| TissueConditioners and Resilient Liners for Dentures | | | | | 1 | | 1 | |
| Revision on complete denture | | | | | 1 | | 4 | |
| Introduction & Classifications | | | | | 1 | | 3 | |
| Surveyors and Master cast preparation | | | | | 2 | | 8 | |
| Metallic denture base | | | | | 2 | | 2 | |
| Component parts of RPD (denture base, rests) | | | | | 2 | | 12 | |
| Casting technology | | | | | 2 | | 2 | |
| Component parts of RPD (connectors, direct and indirect retainers) | | | | | 6 | | 12 | |
| Wrought wires | | | | | 2 | | 2 | |
| Planning the design for RPD | | | | | 2 | | 8 | |
| Joining of metals | | | | | 1 | | 1 | |
| Forces acting on RPD | | | | | 1 | | 4 | |
| Dental Implants | | | | | 4 | | 4 | |
| Total | | | | | 28 | | 140 | |
| **2. Course components (total contact hours per year):** | | | | | | | | |
|  | Lecture | Tutorial | Laboratory | Practical | | Other: | | Total |
| Contact  Hours | 56 |  | 84 |  | |  | | 140 |
| Credit | 4 |  | 3 |  | |  | | 7 |

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| **3. Additional private study/learning hours expected for students per week:**  4 hours study per week |

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| **4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy** |

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|  | **NQF Learning Domains**  **And Course Learning Outcomes** | **Course Teaching**  **Strategies** | **Course Assessment**  **Methods** |
| **1.0** | **Knowledge** | | |
| 1.1 | Demonstrate sound knowledge of the biological, mechanical and technical aspects of complete andpartial removable dentures treatment. | 1. Interactive Lectures 2. Practical sessions 3. Group assignments | 1. Assessment of group assignment presentation using rubric 2. Mid-year written examination 3. Final year written examination 4. Final year OSPE examination |
| 1.2 | Recognizedefinition, function, and indication of different removable prosthesis components |
| 1.3 | Describe different tools and biomaterials used in removable prosthodontics. |
| **2.0** | **Cognitive Skills** | | |
| 2.1 | Interpret relation of prosthesis components and various tools and biomaterials used in prosthodontics with treatment planning. | 1. Interactive Lectures 2. Practical sessions 3. Group assignments | 1. Assessment of group assignment presentation using rubric 2. Mid-year written examination 3. Final year written examination 4. Final year OSPE examination |
| **3.0** | **Interpersonal Skills & Responsibility** | | |
| 3.1 | Show responsibility and ethics in carrying out tasks in team work | Group assignments | Assessment of group assignment presentation using rubric |
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| **4.0** | **Communication, Information Technology, Numerical** | | |
| 4.1 | Gather reliable medical information from medical websites | Group assignments | Assessment of group assignment presentation using rubric |
| **5.0** | **Psychomotor** | | |
| 5.1 | Perform different laboratory steps of removable prosthesis construction | Practical sessions | 1. Practical requirements 2. Practical Quizzes 3. Final year practical examination |
| 5.2 | Draw appropriate partial denture designsfordifferent RPD cases. |
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5. **Schedule of Assessment Tasks for Students During the 2 Semesters:**

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|  | **Assessment Task** | **Week due** | **Proportion of Final Assessment** |
| 1 | 1st practicalexam | 8th -10th week | 5% |
| 2 | 1st Quiz | Within 1st term | 2.5% |
| 3 | Mid-Year Written Exam | 15th Week | 10% |
| 4 | 2nd practical exam | 20th week | 5% |
| 5 | Group presentation | 1st & 2nd semester | 5% |
| 6 | 2nd Quiz | Within 2nd term | 2.5% |
| 7 | Requirements | Throughout year | 20% |
| 8 | Final year practical exam | 20th week | 10% |
| 9 | Final Year Written Exam | 30th Week | 25% |
| 10 | Final Year Practical Exam(OSPE) | 30th Week | 15% |
| Total | | | 100% |

**D. Student Academic Counseling and Support**

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| 1. Arrangements made for availability of faculty for individual students consultations and academic advice. (include amount of time faculty are available each week)   Academic advice 4hs/ week |

**E. Learning Resources**

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| **1- Required Textbooks:**  1.1 Winkler S: Essentials of complete denture prosthodontics. 2 edition PSG Publishing co,Inc, USA; 1988   * 1. [Zarb GA](http://www.amazon.com/s/ref=ntt_athr_dp_sr_1?_encoding=UTF8&sort=relevancerank&search-alias=books&field-author=George%20A.%20Zarb%20BchD%28Malta%29%20%20DDS%20%20MS%28Michigan%29%20%20FRCD%28Canada%29)[, Carlsson GA](http://www.amazon.com/s/ref=ntt_athr_dp_sr_2?_encoding=UTF8&sort=relevancerank&search-alias=books&field-author=Gunnar%20E.%20Carlsson%20DDS%20%20OdontDr%20%20DrOdentHC)[, BolenderCL](http://www.amazon.com/s/ref=ntt_athr_dp_sr_3?_encoding=UTF8&sort=relevancerank&search-alias=books&field-author=Charles%20L.%20Bolender%20DDS%20%20MS): Boucher's Prosthodontic Treatment for Edentulous Patients. 11th Edition Mosby;2004.   2. Alan B. Carr, Glen P. McGivney David T. Brown McCracken,s Removable Partial Prosthodontics 12th Edition 2010.   3. [Phoenix](http://www.amazon.com/Rodney-D.-Phoenix/e/B001JS4FQW/ref=ntt_athr_dp_pel_1) RD, [Cagna](http://www.amazon.com/s/ref=ntt_athr_dp_sr_2?_encoding=UTF8&sort=relevancerank&search-alias=books&field-author=David%20R.%20Cagna) DR, [Defreest](http://www.amazon.com/s/ref=ntt_athr_dp_sr_3?_encoding=UTF8&sort=relevancerank&search-alias=books&field-author=Charles%20F.%20Defreest)  CF Stewart's Clinical Removable Partial Prosthodontics(Phoenix, Stewart's Clinical Removable Partial Prosthodontics) Quintessence Pub Co 4th Edition 2008.   4. Hassaballa, M.H. and Talic, Y.F. Principles of Complete Denture Prosthodontics. 1st Edition. King Saud University- Academic Publishing  and Press 2004.   5. Anusavice KJ. Phillips's Science of dental materials: Saunders11thEdition (2003). |
| **2- Essential References Materials :**   * 1. J Prosthet Dent. http://www.journals.elsevier.com/journal-of-prosthetic-dentistry   2. Journal of prosthodontics. http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1532-849X   3. JADA(http://jada.ada.org/) |
| **3. Recommended Textbooks and Reference Material: -**  3.1-J.A. Hobkirk: Color atlas of complete dentures. Wolfe Medical Publications Limited; 1985.  3.2-Rahn, AO, Heartwell CM. Textbook of Complete Dentures 5th ed. BC Decker Inc. Hamilton. London. 2002.  3.3-Heartwell CM, Rahn, AO: Syllabus of Complete Dentures 3th ed.LEA&FEBIGER. PHILADELPHIA 1980.  3.4-J.C Davenport.R.M.Baskero J.R HealthoJ.P.Ralph: Color atlas of removable partial dentures C.V. Mosby Co(1988).  3.5 CM. Textbook of Complete Dentures 12thed. BC Decker Inc. Hamilton. London. (2009); 493.  3.6O 'Brien WJ. Dental materials and their selection: Quintessence publishing,12thEdition (2006).  3.7McCabe JF. Applied Dental Materials: Wiley- Blackwell, 4thEdition (2009). |
| 4**. Electronic Materials:**   1. <http://www.dentalxp.com/>©2013 2. <http://www.ada.org/aboutada.aspx>Copyright © 1995-2013 American Dental Association |
| 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.   1. Power Point presentations of lectures in the form of slide show are uploaded to the academic websites of the faculty by the end of each lecture. |

**F. Facilities Required**

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| Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.) |
| **1. Accommodation**  The accommodation required for the teaching of this course includes the following:  **a. Classrooms:**  Each teaching classroom in the faculty is large enough to accommodate 60 students at one time & it includes enough number of comfortable seats arranged in rows with spaces between them. These classrooms are supplied with audiovisual equipments, data show, a large screen, screen pointers & other equipments needed for the Power Point presentation of lectures.  **b. Laboratory:**  i- Simulation laboratory can be used by student to set up teeth, prepare wax pattern, and finish all steps of constructing removable appliances.  ii- Wet laboratory equipped with all dental materials needed for pouring impressions, preparing study casts, investing, and casting.  **2. Computing resources:**  All students have the opportunity to use computer with internet access in a comfortable place. This will enable the students to search for the learning issues of the  PBL and SDL tutorials.  **3. Other resources:**  Classrooms for the group setting sessions. |

**G Course Evaluation and Improvement Processes: -**

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| **1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching**  1. A course evaluation questionnaire is designed to assess the effectiveness of the course regarding objectives, teaching facilities, instructor assessment  process and resources. It is distributed to all the students at the end of the  course, data is analyzed, interpreted and discussed by the course director or committee in order to issue an improvement plan for any difficulties facing the students.  2. Focus group discussion with the students to validate the questionnaire results.  **2. Other Strategies for Evaluation of Teaching by the Instructor or by the**  **Department**  a. A course evaluation questionnaire is designed to assess the effectiveness of the course. It is distributed to instructors who participated in teaching the course at the end of the semester, data is analyzed, interpreted and discussed by the course director or committee.  b. An annual course report is compiled by the course director or committee in light of the results of students performance as well the results of the course evaluation questionnaire by students.  **3. Processes for Verifying Standards of Students**  1. Double checking of the students answers by two raters or evaluators.  2. External examiners recruitment is helpful for verifying students' performance.  **4. Planning arrangements for periodically reviewing the course**   * The course is revised annually after its delivery in light of the results of students' performance (students' grades) and the results of the course evaluation questionnaire by both students and teaching staff. * The course director or committee discusses these issues and put an improvement plan for each spotted problem. They revise the course content and intended learning objectives. Any changes in objectives, teaching strategies or assessment methods should be documented in the course specification of the next year. Major changes should not be considered except after being approved by the curriculum committee. * Regular meeting for department staff to discuss the improvement strategies of the course. |

**Faculty or Teaching Staff:**

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|  |  | **Signature** |
| **Dr. Mohammed M. Beyari** | **Prof. of Prosthodontics.** |  |
| **Dr. Hanadi A. Lamfon.** | **Associate Prof. of Prosthodontics** |  |
| **Dr. Ibrahim Hammouda.** | **Professor of Dental Materials** |  |
| **Dr. Nadia Badr.** | **Professor of Dental Materials** |  |
| **Dr. Reem Abdallah** | **Lecturer of Dental Materials** |  |
| **Dr. Mohammed A. Nada** | **Professor of Prosthodontics.** |  |
| **Dr. Ehab M. AbulRoos** | **Associate Prof. of Prosthodontics** |  |
| **Dr. Tamer Omar Ibrahim** | **AssociateProf. of Prosthodontics** |  |
| **Dr. Haitham Elsisi** | **Assist. Prof. of Prosthodontic** |  |
| **Dr. FatmaAwad** | **Professor of Prosthodontics** |  |
| **Dr. Amira M. Gomaa.** | **Associate Prof. of Prosthodontics** |  |
| **Dr. Doaa Hassan** | **Assist. Prof. of Prosthodontic** |  |
| **Dr. Amr Rady** | **Assist. Prof. of Prosthodontic** |  |

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

**Received by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Dean/Department Head**

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