

## Course Specification Student Version

|                      |                                    |
|----------------------|------------------------------------|
| <b>Course Title:</b> | Comprehensive Clinical Dentistry-1 |
| <b>Course Code:</b>  | GDC 691                            |
| <b>Department:</b>   | Dentistry                          |
| <b>Program:</b>      | Bachelor of Dentistry              |
| <b>College:</b>      | Vision College in Riyadh           |
| <b>Institution:</b>  | Vision College in Riyadh           |
| <b>Revised:</b>      | July 2025                          |

## A. Course Identification

|   |
|---|
| <b>1. Credit hours:</b> 07 (1+1+5)  |
| <b>2. Level/year at which this course is offered:</b> Year 6/Level 11                                   |
| <b>3. Pre-requisites for this course (if any):</b> OMC 512, RDC 512, RDC 522, PDC 522, SDC 512, SDC 522 |
| <b>4. Co-requisites for this course (if any):</b> None  |

## B. Teaching Methods

|          |                           |
|----------|---------------------------|
| <b>1</b> | Interactive Lectures      |
| <b>2</b> | Problem based learning    |
| <b>3</b> | Clinical Sessions         |
| <b>4</b> | Simulation based learning |

## C. Course Description and Objectives

### 1. Course Description

This course gives dental students the knowledge, skills, and values necessary to diagnose and manage full mouth rehabilitation cases to provide comprehensive dental care. It is a conjoint course by all dental departments where contributors from all dental disciplines participate in both the lecture and clinical sessions

### 2. Course Main Objective

The main purpose of this course is to help students develop a comprehensive treatment plan for prevention and treatment of oral conditions so that each patient can be maintained in, or restored to, a healthy, functioning aesthetic condition.

### 3. Course Objectives

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

- Describe etiology, pathology, clinical features and management of the most common oral diseases and emergency conditions related to dental practice.
- Identify basic principles, different techniques, recent advancements and criteria for success and failure of different dental clinical procedures.
- Obtain social, medical and dental history and utilize diagnostic measures (request radiographs to interpret findings) for diagnosis to develop effective treatment plans.
- Perform extra and intra-oral examinations in dental clinic and formulate a comprehensive treatment plan based on diagnostic findings for dental patients.
- Identify and manipulate different instruments, recent technology and materials used for common dental procedures.
- Identify and manage common medical and dental emergencies that may occur in dental practice.
- Perform restorations, root canal treatment, simple extractions, fixed and removable prosthesis, scaling and root planning and other comprehensive dental procedures for full mouth rehabilitation.
- Demonstrate ethics and professionalism in dental practice.

- Show proper time and resources management in clinical dental practice  
Express effective communication with the patients and other members in the dental clinics.

#### D. Course Content

| No  | List of Topics   |
|-----|--|
| 1.  | Introduction and orientation to the course.                      |
| 2.  | Treatment planning in prosthodontics                             |
| 3.  | Restoration of endodontically treated teeth                      |
| 4.  | Fundamentals of Digital dentistry in Prosthodontics              |
| 5.  | Advances in early detection of oral cancer                       |
| 6.  | New trends in obturation techniques                              |
| 7.  | Prosthodontic management of worn dentition.                      |
| 8.  | Management of patients undergoing radiotherapy and chemotherapy. |
| 9.  | Minimal invasive treatment for carious lesions                   |
| 10. | Peri-implant diseases and its treatment.                         |
| 11. | Causes of failure of composite restorations                      |
| 12. | Practical sessions and clinical sessions                         |

| No | Practical Lab                                     |
|----|---|
| 1. | General orientation                               |
| 2. | Class IV cavity preparation                       |
| 3. | Class IV restoration                              |
| 4. | Crown margin preparation + Post space preparation |
| 5. | Post and core fabrication with direct technique   |
| 6. | Hands on experience of intraoral scanning         |
| 7. | Root canal treatment mandibular molar             |
| 8. | Access cavity preparation Maxillary molar         |

## E. Assessment Tools

| # | Assessment task             | Percentage of Total Assessment Score |
|---|-----------------------------|--------------------------------------|
| 1 | Clinical Evaluation         | 28%                                  |
| 2 | Case presentation           | 5%                                   |
| 3 | Simulation based assessment | 5%                                   |
| 4 | Midterm Exam                | 15%                                  |
| 5 | Cased-Based Assessment      | 2%                                   |
| 6 | Final Written Exam          | 25%                                  |
| 7 | Clinical Exam (OSCE)        | 20%                                  |
|   | <b>Total</b>                | <b>100%</b>                          |

## F. Learning Resources

### Essential References and Required Textbooks

- Periodontics:
  - Carranza's Clinical Periodontology. Michael G. Newman, Henry Takei, Fermin A. Carranza, Perry R. Klokkevold. W.B. Saunders Company; 14th edition, 2023.
- Operative Dentistry:
  - Fundamentals of Operative Dentistry: A Contemporary Approach. James B. Summitt. Quintessence Publishing; 4<sup>th</sup> ed., 2013.
- Endodontics:
  - Pathways of the Pulp. Stephen Cohen, Kenneth M. Hargreaves. C.V. Mosby; 13th edition, 2020.
  - Endodontic principle and practices 6th edition, Torabinejad and Walton 2021.
- Oral Surgery:
  - Contemporary Oral and Maxillofacial Surgery. Larry J. Peterson, Edward Ellis, James R. Hupp, and Myron R. Tucker, Mosby; 7th edition, 2019.
- Prosthodontics:
  - Contemporary Fixed Prosthodontics. Stephen F. Rosenstiel, Martin F. Land, Junhei Fujimoto C.V. Mosby; 6<sup>th</sup> edition, 2022.
  - Clinical Complete Denture Prosthodontics, Hassaballa M A, 2<sup>ND</sup> Ed., King Saud University Academic Publishing and Press, 2010.
  - Andrew Eder Tooth wear, 3<sup>rd</sup> edition, 2022
  - Clinical maxillofacial prosthesis by Thomas D Taylor ed 1, 2000

|                              |  |
|------------------------------|--|
|                              | <ul style="list-style-type: none"> <li>○ Mc Craken's removable partial prosthodontics, 13<sup>th</sup> ed, 2015</li> <li>○ Zarb GA, Hobkirk J, Eckert S, Jacob R. Prosthodontic treatment for edentulous patients: complete dentures and implant-supported prostheses. Elsevier Health Sciences; 2012 Mar 15.</li> <li>● Oral medicine and diagnosis <ul style="list-style-type: none"> <li>○ Drug prescribing for dentistry, Dental clinical guidance, 2<sup>nd</sup> ed, 2011</li> <li>○ ADA Dental drug handbook. A quick reference 2019</li> </ul> </li> <li>Stefenac &amp; Nasbit Diagnosis and treatment planning in dentistry, 3<sup>rd</sup> Ed, 2016</li> </ul> |
| <b>Supportive References</b> | <p>Planning and making Crowns and Bridges, Smith B.GN and Howe L.C, 4 Edition, (2013).</p> <p>Latest articles to be shared on LMS</p>  |
| <b>Electronic Materials</b>  | LMS resources  |