

# National Commission for Academic Accreditation & Assessment

## Course Specification

Institution	University Of Dammam
College/Department	Dentistry- Dental Education

### A Course Identification and General Information

1. Course title and code: <b>Comprehensive Clinical Dentistry (CCD)- DTEDU (631 and 652)</b>
2. Credit hours: 10 credit hours. One lecture/presentation and four clinical sessions every week over two semesters.
3. Program(s) in which the course is offered. (If general elective available in many programs indicate this rather than list programs)  <b>Undergraduate dental program</b>
4. Name of faculty member responsible for the course <b>Moataz Farouk Elgezawi</b>
5. Level/year at which this course is offered: Sixth year
6. Pre-requisites for this course (if any)All courses of the fifth year
7. Co-requisites for this course (if any) -----
8. Location if not on main campus -----

## B Objectives

1. Summary of the main learning outcomes for students enrolled in the course.

This course is aimed at enhancing and expanding the clinical experiences of students and their ability to comprehensively manage different oral and dental health problems. This would provide a broader basis for a competent general dental practice imparting biomechanically, functionally and aesthetically optimum treatment outcomes conducive to complete patient satisfaction and welfare. Formally, there are two courses DTEDU (631 and 652) conducted as one course per each semester. However, the two courses are actually conducted as one annual comprehensive clinical dentistry course since the clinical requirements of the course demand longer duration to be complete.

At the end of the course each student should be able to

1- Perform a comprehensive diagnosis of oral and dental health problems accurately employing all diagnostic tools.

2- Develop a comprehensive treatment plan conducive to re-establishing and maintaining optimum status of health, function, aesthetics, patient satisfaction and welfare.

3- Competently carry-out all prevention, intervention procedures as well as accurately prescribe adjunctive therapeutic measures.

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)

- Interactive and interdisciplinary cases evaluation and selection according to the criteria fitting the requirements of the course.

- Periodically reviewing progress in comprehensively diagnosing and designing suitable treatment plans through assigned reports, online patient records and seminars.

- Online documenting treatment progress and modifications in treatment plans.

- Organizing a set of video OSCE exams to augment critical thinking skills.

- Suggesting different websites containing videos for procedures, published case reports of concern as well as evidence based reports.

- Exposing the students to modern technologies practices like the Diagnodent in confirming dental caries diagnosis, Digital 3D scanning radiography in planning for implants and complicated surgical procedures and CAD/CAM technology in fabricating indirect restorations (chair-side and in-lab models)

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

Lectures will be provided in the seminar sessions by invited senior clinicians and assigned students groups (3 students per each group).

1 Topics to be Covered		
List of Topics	No of Weeks	Contact hours
Indirect tooth colored restorations: clinical aspects	1	1
Occlusion in prosthodontics: Scenarios for occlusal analysis	1	1
Endodontic retreatment : cases reports	1	1
Periodontal aspects in fixed prosthodontics (surgical crown lengthening): Case report	1	1
Periodontal aspects in prosthodontics (fixed prosthodontics): Cases reports	1	1
Clinical aspects in designing removable partial dentures: cases reports	1	1
Clinical challenges of restoring esthetics (operative): Cases reports	1	1
Replantation procedures(oral surgery): case report	1	1
Oral Surgery legal responsibilities of the general dentist	1	1
Endodontics-periodontics correlations: cases reports	1	1
Management of traumatic occlusion: cases report	1	1
Management of cases of collapsed bite and reestablishing VDO	1	1
Therapeutic adjuncts in comprehensive dental treatment	1	1
General Dental Practitioner: limits of general practice and referral policies	1	1

2 Course components (total contact hours per semester):
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Lecture: 1 lecture per week	Tutorial: 1 seminar/week	Laboratory	Practical/Field work/Internship Four clinical sessions/week	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**

(i) Description of the knowledge to be acquired

-This course is based on conjoint knowledge developed previously throughout the different courses. However, selective topics of clinical relevance that augment the effectiveness of conducting an interdisciplinary approach in patient management will be outlined. Clinical experiences of invited senior clinicians as speakers or student group assignments for topics of clinical interest in an evidence-based practice approach will be conducted.

(ii) Teaching strategies to be used to develop that knowledge

Direct lecturing, discussions and seminars and group assignments.

<p>(iii) Methods of assessment of knowledge acquired</p> <p>Final written exam and evaluation of assigned group assignments.</p> <p>For group assignment, assessment will be through discussion with course contributors during the seminar session and grading in a structured format.</p>
<p><b>b. Cognitive Skills</b></p>
<p>(i) Description of cognitive skills to be developed</p> <p>The following cognitive skills are further developed as a part of developing comprehensive and interdisciplinary experience in patient management.</p> <p>At the end of the course, students should be able to:</p> <p>Apply suitable diagnostic tools in addressing comprehensive definitive diagnosis of all oral and dental health problems.</p> <p>Explain to patients, phase by phase, the most appropriate interdisciplinary treatment plan and sequence of progress.</p> <p>Point out the most appropriate prevention techniques, therapeutic adjuncts and maintenance methods.</p> <p>Illustrate the basis of modifying interdisciplinary treatment plans during treatment course progress.</p>
<p>(ii) Teaching strategies to be used to develop these cognitive skills</p> <ul style="list-style-type: none"> <li>- Direct discussions and cases scenarios that augment critical thinking.</li> <li>- Giving examples of integrated approaches in designing and contemplating comprehensive patient management in certain selected clinical cases reports. Providing an evidence-based approach in delivering lectures and presentations to further enhancing critical thinking and problem-solving.</li> </ul>
<p>(iii) Methods of assessment of students cognitive skills</p>

<p>-Formative assessment by integrated teaching and discussions during seminars,</p> <p>-Summative assessment , treatment plan presentation, case presentation, OSCE exams and final written exam .</p>
<p><b>c. Interpersonal Skills and Responsibility</b></p>
<p>(i) Description of the interpersonal skills and capacity to carry responsibility to be developed</p> <p>Augmenting and enhancing skills of participation in groups, leadership, personal and social responsibilities including ethical behavior and desire to undertake further self –initiated long life learning.</p>
<p>(ii) Teaching strategies to be used to develop these skills and abilities</p> <p>Participation in appropriate group activities with reflection on performance and advice as well as case studies providing the views and actions for persons that students respect. During the course, students are practicing independently , arrange and plan time schedule of their respective treatments to enhance the interpersonal skills and responsibility.</p>
<p>(iii) Methods of assessment of students interpersonal skills and capacity to carry responsibility</p> <p>-Formative assessment through daily supervision and discussion.</p> <p>-Summative assessment through evaluation of seminars and final cases presentations.</p>
<p><b>d. Communication, Information Technology and Numerical Skills</b></p>
<p>(i) Description of the skills to be developed in this domain.</p> <p>- Explain to the patient the most appropriate comprehensive treatment plan , the sequence of procedures and adjunctive therapeutic measures throughout the treatment course and any need for modifications at any time during the course of the treatment.</p> <p>Reporting progress in comprehensive treatment plan and any modification.</p> <p>Outline the interdisciplinary manner in conducting different treatment plan phases.</p> <p>Describe difficulties and challenges faced during the different treatment plan phases.</p>

<p>(ii) Teaching strategies to be used to develop these skills</p> <p>Students assignments using information and communication technology</p>
<p>(iii) Methods of assessment of students numerical and communication skills</p> <p>-Formative through daily supervision and discussion of faculty members from different disciplines</p> <p>- Summative through treatment plan presentations and a final case presentation</p>
<p><b>e. Psychomotor Skills (if applicable)</b></p>
<p>(i) Description of the psychomotor skills to be developed and the level of performance required</p> <p>-Operate in a multidisciplinary approach the different procedures included in the various clinical branches of dentistry under supervision of faculty members from different specialities.</p> <p>- Develop skills of Computer aided design and computer aided manufacturing of indirect restorations.</p>
<p>(ii) Teaching strategies to be used to develop these skills</p> <p>- Demonstrations</p> <p>- Direct clinical supervision and feedback regarding the quality of work of the students.</p>
<p>(iii) Methods of assessment of students psychomotor skills</p> <p>-Daily clinical evaluation for each respective speciality.</p>

5. Schedule of Assessment Tasks for Students During the Semester			
Assess	Assessment task (eg. essay, test, group project, examination	Week due	Proportion

ment	etc.)		of Final Assessment
1	Daily Clinical evaluation		10
2	Clinical requirement		35%
3	Treatment plan session		10%
4	2 OSCE exams' one per each semester'		2.5% x 2=5%
5	Final presentation of treated cases and discussion*		20%
6	Assigned topic presentation		5%
7	Final written exam #		15%

### D. Student Support

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)

Contributing members will be available in each clinical session and seminar for consultation and advice upon individual students request.

### Course Content

#### A. Requirements:

##### 1. Clinical Requirements:

Each student is required to finish **three comprehensive cases**. At **least one** of the three cases **must be advanced**. In addition, **minimum clinical requirements** (see below) and a minimum of **120 points are mandatory** in order to complete the requirements of the course.

##### Case classification is as follows:

- A comprehensive case must require prosthodontic treatment in addition to at least two disciplines (Oral Surgery, Periodontics, Prosthodontics Endodontic, and Operative dentistry). The degree of difficulty of each case is determined and classified by the course directors according to the following criteria:
- Simple :
- Removable prosthesis OR 2-3 fixed units AND at least two disciplines.
- Moderate: (two options)
- Removable prosthesis AND 1-2 fixed units AND at least two disciplines



- 4-fixed units AND at least two lines of treatment
- Advanced: (two options)
- Removable prosthesis AND 4 or more fixed units AND at least two disciplines
- 6 or more fixed units AND at least three lines of treatment
- The point system:
- Each clinical procedure has a weight according to the Treatment Codes and Points List. The student must collect at least 120 points in order to pass the course. The collected points must show that the student performed a variety of procedures. If all collected points are from similar procedures, the students may be asked to perform more procedures.
- Minimum Clinical Requirements:
- Oral surgery: Six (6) extractions (five (5) non-surgical and one (1) surgical)
- Operative Dentistry: Fifteen (15) restorations of vital teeth
- Fixed Prosthodontics: Two (2) crowns, Two (2) fixed partial dentures, and Two (2) post and cores.
- Removable Prosthodontics: Two (2) dentures (one complete and one partial denture)
- Periodontics: One (1) surgical Two (2) Non-Surgical Cases (scaling and root planning)
- Endodontics: Six (6) teeth (with at least two molars).
- Treatment Plan Presentation (Monday, 8-10 am)
- Each student must present his treatment plan for each of the three comprehensive cases. The presentation must follow the Guidelines for Case Presentation (see Guidelines sheet
- Final Presentation of Completed Cases:
- At the end of the year, each student must present the three finished (treated) comprehensive cases .
- Attendance Policy:
- Attendance of ALL sessions (clinics, treatment plan, lectures) is mandatory (more than 25% absence will NOT take the final exam). Lectures will be given by faculty members (or invited speakers) on selected topics and it will take place during the treatment plan session .

B- Evaluation:

- Clinical Evaluation: Total of 50%
- Daily Clinical Evaluation 10
- Clinical Requirements 35 %
- 2 OSCE exams ‘one per each semester ‘ 5%

- Treatment Plan Session: 10%
- Assigned topic presentation 5%
- Presentation of Treated Cases and discussion: 20%
- Final Written Exam: 15%

120 points were used as a minimum clinical requirement for the course and will be graded the pass mark. The maximum points achieved among students will be assigned for the final mark of the clinical requirements (35/35) and will be used as a basis for calculating other students marks out of 35.

## E Learning Resources

1. Required Text(s)
2. Essential References  _____
3- Recommended Books and Reference Material (Journals, Reports, etc) (Attach List)  -J. dental clinics of North America.  - J. Clinical Oral investigations.  - J. Prosthodontics  -J. Evidence Based Dental Practice  -J ADA
4- Electronic Materials, Web Sites etc  Selective articles and web sites of clinical relevance provided by faculty members of different disciplines.
5- Other learning material such as computer-based programs/CD, professional standards/regulations

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## F. Facilities Required

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.)  Facility is available according to course requirement.
2. Computing resources Computers are available according to students requirement.
3. Other resources (specify --eg. If specific laboratory equipment is required, list requirements or attach list)  All resources required for course are available

## G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching  Student evaluation and feedback using questionnaires and course evaluation survey provided by UOD: Students experience survey- program evaluation- Student survey on lecturing skills. -Focus group discussion with a small group of students
2 Other Strategies for Evaluation of Teaching by the Instructor or by the Department  Observation and assistance of contributing faculty members
3 Processes for Improvement of Teaching  Conducting workshops on teaching methods and teaching strategies.

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)

- Checking samples of examination papers, assignments form different dental colleges.
- Inviting external examiners.

5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.

- Periodical students and contributing faculty members reviewing regarding the quality of the course and need for improvement

Faculty or Teaching Staff: Moataz ELgezawi  
Signature: Moataz Date Report Completed: \_\_\_\_\_  
Received by: DR. ASIM AL ANSARI Dean/Department Head  
Signature: [Signature] Date: \_\_\_\_\_