# Ministry of Higher Education and Scientific Research

**Apparatus** **of** **Supervision and Scientific Evaluation**

**Department of Quality Assurance and Academic Accreditation**

**Academic program specification form for colleges and institutes**

University: Almustansiriya

College \ institute: Dentistry

Scientific Department: Conservative department

Date of filling the file:6-2016

Signature:

Head of Department Name: Dr.Haider Hassan Date:

Scientific Associate name

Date:

The file verified by

Quality Assurance and University Performance Division

Head of Quality Assurance and University Performance Division name:

Date:

 Signature:

**Dean authentication**

**Academic Program Description**

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| This Academic Program description provides briefed information of the most important features of the program and the expected learning outcomes of the student proving whether he has made the maximum benefit from the available opportunities. And it is accompanied by a description of each course within the program. |

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| Almustansiriya University/College of dentistry | 1. Educational institution
 |
| Conservative Department  | 1. Scientific department / center
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| Description academic - the academic performance program | 1. Academic program name
 |
| Bachelor Degree | 1. Final degree name
 |
| year | 1. The education system
 |
| Association of Arab Universities ProgramASIC (Accreditation Service for International College ) | 1. Accreditation program
 |
| Follow the curriculum in a solid international universities in the same speciality | 1. Other external influences
 |
| 6-2016 | 1. Date of description
 |
| 1. Academic Program Objectives
 |
| -1 Urged students and follow-up their level of study in specific periods and develop their abilities. 2 commitment to academic vocabulary3 updated vocabulary by teaching staff by 10 % a year or more or less |
| 4. explain the anatomy of teeth and study the function , evolution and the formation of all the teeth in the mouth of the man and the relationship between the teeth in terms of communication and shape and configuration and function , and so the study of the anatomy of teeth and Alfssoalogi and cognitive process of dishes give a solid foundation for the skills that we need in life operation in the fields of dentistry5. Ability to patient who grumbling from toothache examination6. understand tooth decay ; classification and characteristics |
| 7. understand the core of the response to the various age procedures used in dental restoration8. understand how to deal with the deep dental caries .9. diagnosed the teeth structure .10. has information on new technologies in the field of dental roots .11. enable the student to prepare dental prostheses for packaging |
| 12. enable the student to learn how to get a fixed Overpack when placed on age record13 - Students learn how to distinguish between types of coatings in terms of the amount of pieces of the tooth and forms the ends of preparation14 student work on artificial heads in the laboratory and the preparation of all forms of packaging |

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| 1. The required outputs of the program and the methods of teaching, learning and assessment
 |
| 1. Cognitive goals

A1- prepare summary reports for some topics related to the autopsy teeth and fillings and kinds.A2- know the student to the most modern methods of packaging and dental work on crown and bridge .A3- hands- on laboratory models for making bridges.A4- display explanatory slides to explain most of the annual curriculum and the use of illustrative movies and smart blackboard and multiple means of illustrations .A5- student training on the use of all kinds of fillings.A6- emphasis on ethics Dental interaction with the patient |
| 1. Skill goals of the program

B 1 - hands-on training in the laboratory of the branchB 2 practical training in various clinics with 3 - the use of illustrations and other illustrate the different types of fillings and bridges |
| Teaching and learning methods  |
| Develop a plan to ask questions and put the questions and put up quick exams intellectual daily , quarterly and final practical and theoretical side\_ Explain and discuss the theoretical lecture program using Power Point presentation and other means of illustrations and video footage scientificWorked ring brief reports shared by two or more to study for vocabulary curriculum   - Hands-on training for the vocabulary that need to be trained |
| Assessment methods  |
| 1. periodic visits to all stages lessons.2. fill visit form and submit it to the competent committee branch .3. The updated curriculum and lineage |
| 1. Affective and value goals

. C1- the development and modernization of the curriculumC2- develop the skills and expertise of the teaching staffC3- urged students and teaching staff to use the latest scientific sources    C4- prepare Dentist carrying values ​​of its high medical to deal with the patient and how to diagnose and treat |
| Teaching and learning methods  |
| Develop a plan to ask questions and put the questions and ask the rapid intellectual daily , quarterly and final examinations practical and theoretical side\_ Explain and discuss the presentation of the theory of using Power Point presentation program and means of illustrative video movies and other scientific- Action concise reports shared by two or more to study for vocabulary curriculum   - Hands-on training for the vocabulary that need to be trained |
| Assessment methods  |
| 1-Adoption of classroom discussions.2.Answer for quick examinations Rated level students.3.preparation practical lessons that need to be hands-on training .4.answer the quarterly exams and the final of the theoretical and practical aspects . |

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| 1. General and rehabilitative skills (other skills related to the viability of employment and personal development)

1. Setup with the decision the school each subject by teaching himself.2. follow the program closely.3. preparing questions and discussions and examinations theoretical and practical evaluation of the student role.4. Note the most important obstacles that we have encountered in the implementation of the program self-evaluation of the performance |
| Teaching and learning methods  |
| 1. theoretical lectures and discussions descriptive and scientific reports2. practical application in the laboratory3. clinical training at dental clinics |
| Assessment methods  |
| 1- Evaluate my ( weekly - quarterly - Final )2. assess the practical aspect of the existence of the clinics patients are followed up |
| 1. The program structure
 |
| Credits | course name | course code | Educational stage |
| Practical  | Theoretical  |
| 2 | 2 | anatomy | 50202105 | 1st class |
| 3 | 4 | operative | 50202320 | 3 rd class |
| 4 | 0 | operative | 50202429 | 4 th class |
| 3 | 2 | Endodonotic | 50202429 | 4 th class |
| 3 | 2 | crown and bridge | 50205431 | 4 class |
| 3 | - | operative | 50202539 | 5 th class |
| 3 | 2 | endodonotic | 50202540 | 5 th class |
| 3 | 1 | Crown and bridge | 50205541 | 5 th class |

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| 1. Planning for personal development
 |
| 1. Setup decision semester each subject by teaching himself.2. monitor the implementation of the program carefully .3.set up questions and discussions and examinations theoretical and practical evaluation of the student role.4. Note the most important obstacles that we have encountered in the implementation of the program self-evaluation of the performance |
| 1. Acceptance criterion (regulation concerning enroll in the college or institute)
 |
| Standard acceptance CentralStandard parallel acceptance has been applied in the college school year 2015-2016 |
| 1. The most important sources of information about the program
 |
| Adoption of global programs for universities solid in the same jurisdiction and the Federation of Arab Universities |

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| **Scheme of curriculum skills** |
| **Please tick in the corresponding boxes for individual learning outcomes of the program under assessment** |
| **required learning outcomes of the program**  |  |
| **General and rehabilitative skills**  | **Affective and value goals** | **Skill goals of the program**  | **Cognitive goals** | **Basic****Or optional** | **Course name** | **Course code** | **Year / Level** |
| **D4** | **D3** | **D2** | **D1** | **C4** | **C3** | **C2** | **C1** | **B4** | **B3** | **B2** | **B1** | **A4** | **A3** | **A2** | **A1** |  |  |  |  |
| **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **Basic** | anatomy | 50202105 | **1st**  |
| **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **Basic** | operative | 50202320 | **3 rd** |
| **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **Basic** | operative | 50202429 | **4th** |
| **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **Basic** | Endodonotic | 50202429 | **4th** |
| **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **Basic** | crown and bridge | 50205431 | **4th** |
| **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **Basic** | operative | 50202539 | **5th** |
| **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **Basic** | endodonotic | 50202540 | **5th** |
| **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **√** | **Basic** | Crown and bridge | 50205541 | **5th** |

**Course Description**

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| This course description provides briefed information of the most important features of the course and the expected learning outcomes of the student proving whether he has made the maximum benefit from the available opportunities. It must be linked with the program description  |

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| Ministry of Higher Education | 1. Educational institution
 |
| Almustansiriya University/College of Dentistry | 1. Scientific department \ center
 |
| Dental anatomy/50202105 | 1. Course name\ code
 |
| Weekly | 1. Available attendance forms
 |
| Year | 1. Semester \year
 |
| 3 hours (1 theory, 2 practical) | 1. Credits (total)
 |
| 6-2016 | 1. Date of description
 |
| 1. Course objectives
 |
| Dental anatomy is defined here as, but is not limited to, the study of the development, morphology, function, and identity of each of the teeth in the human dentitions, as well as the way in which the teeth relate in shape, form, structure, color, and function to the other teeth in the same dental arch and to the teeth in the opposing arch. Thus, the study of dental anatomy, physiology, and occlusion provides one of the basic components of the skills needed to practice all phases of dentistry. |

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| 1. The outputs of the course and the methods of teaching, learning and assessment
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| 1. Course structure ( operative –third class )
 |
| Assessment methods  | Teaching methods | Subject name | Required learning outputs  | Hours  | week |
|  | Theory and practical | **Introduction and Nomenclature** | **Introduction & training on the grasping of dental instruments** | 3 | 1 |
|  | Theory and practical | **Numbering systems** | **Training on drawing according to given measurements** | 3 | 2 |
|  | Theory and practical | **Anatomical landmarks** | **Training on cutting using the dental instruments** | 3 | 3 |
|  | Theory and practical | **Anatomical landmarks** | **Training on carving using the dental instruments** | 3 | 4 |
|  | Theory and practical | **The permanent maxillary central incisors** | **Presentation of artificial specimens of different teeth to show the locations of different landmmarks** | 3 | 5 |
| 1st&2nd term(Weekly exam& evaluation | Theory and practical | **The permanent maxillary central incisors** | **Drawing of labial, mesial, and incisal aspects of maxillary central incisor** | 3 | 6 |
|  | Theory and practical | **The permanent maxillary lateral incisors** | **Cutting of labial aspect of maxillary central incisor** | 3 | 7 |
|  | Theory and practical | **The permanent maxillary lateral incisors** | **Cutting of mesial aspect of maxillary central incisor** | 3 | 8 |
|  | Theory and practical | **The permanent mandibular incisors** | **Finishing of maxillary central incisor** | 3 | 9 |
|  | Theory and practical | **The permanent mandibular incisors** | **Evaluation of finished maxillary central incisor** | 3 | 10 |
|  | Theory and practical | **The permanent maxillary canines** | **Drawing of labial, mesial, and incisal aspects of maxillary canine** | 3 | 11 |
|  | Theory and practical | **The permanent mandibular canines** | **Cutting of labial aspect of maxillary canine** | 3 | 12 |
|  | Theory and practical | **The permanent maxillary premolars** | **Cutting of mesial aspect of maxillary canine** | 3 | 13 |
|  | Theory and practical | **The permanent maxillary premolars** | **Finishing of maxillary canine** | 3 | 14 |
| Mid year(theory&practical) | Theory and practical | **The permanent mandibular premolars** | **Evaluation of finished maxillary canine** | 3 | 15 |
|  | Theory and practical | **The permanent mandibular premolars** | **Drawing of buccal,mesial, and occlusal aspects of maxillary first premolar** | 3 | 17 |
|  | Theory and practical | **The permanent maxillary molars** | **Cutting of buccal aspect of maxillary first premolar** | 3 | 18 |
|  | Theory and practical | **The permanent maxillary molars** | **Cutting of mesial aspect of maxillary first premolar** | 3 | 19 |
|  | Theory and practical | **The permanent mandibular molars** | **Finishing of maxillary first premolar** | 3 | 20 |
|  | Theory and practical | **The permanent mandibular molars** | **Evaluation of finished maxillary first premolar** | 3 | 21 |
|  | Theory and practical | **The pulp cavities of the anterior permanent teeth** | **Drawing of buccal,mesial, and occlusal aspects of maxillary first molar** | 3 | 22 |
|  | Theory and practical | **The pulp cavities of the posterior permanent teeth** | **Cutting of buccal aspect of maxillary first molar** | 3 | 23 |
|  | Theory and practical | **The deciduous teeth** | **Cutting of mesial aspect of maxillary first molar** | 3 | 24 |
|  | Theory and practical | **The deciduous teeth** | **Finishing of maxillary first molar** | 3 | 25 |
|  | Theory and practical | **Development of teeth** | **Evaluation of finished maxillary first molar** | 3 | 26 |
|  | Theory and practical | **Calcification and eruption** | **Drawing of buccal,mesial, and occlusal aspects of mandibular first molar** | 3 | 27 |
|  | Theory and practical | **General consideration in the physiology of the permanent dentition.** | **Cutting of buccal and mesial aspects of mandibular first molar** | 3 | 28 |
|  | Theory and practical | **Physiologic form of the teeth** | **Finishing of mandibular first molar** | 3 | 29 |
| Final Exam | Theory and practical | **Comparative dental anatomy** | **Final Exam (Practical** | 3 | 30 |
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| 1. The Infrastructure
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| 1.Wheeler’s Dental Anatomy, Physiology, and OcclusionBy: Stanley J Nelson & Major M. Ash2-Wheeler’s Atlas of Tooth Form By Major M. Ash | 1.Textbooks required |
| 1-Dental Anatomy, Its Relevance to DentistryBy: Julian B. Woelfel & Rickne C. Scheid2-Woelfel’s Dental AnatomyBy: Rickne C. Scheid & Gabriela Weiss | 2.References |
| --- | * 1. Recommended books and references (scientific journals, reports, ....)
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| ---- | * 1. Electronic References, and websites ....
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| 1. Plan for development of the course
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| 1. Course structure ( OPERATIVE – 4TH CLASS)
 |
| Assessment methods  | Teaching methods | Subject name | Required learning outputs  | Hours  | week |
|  | Practical |  | Introduction | 2 | 1 |
|  | Practical |  | Learning dental chair unit. | 2 | 2 |
|  | Practical |  | Learning how to fill case sheet | 2 | 3 |
|  | Practical |  | Case selection and diagnosis. | 2 | 4 |
| 1st&2nd term practical | Practical |  | Prepare buccal & palatal pit cavity. | 2 | 5 |
|  | Practical |  | Lining & filling material  | 2 | 6 |
|  | Practical |  | Cl III, IV& V cavity preparation. | 2 | 7 |
|  | Practical |  | Cl III, IV& V cavity preparation. | 2 | 8 |
|  | Practical |  | Cl III, IV& V cavity preparation. | 2 | 9 |
|  | Practical |  | Lining material application. | 2 | 10 |
|  | Practical |  | Composite filling placement. | 2 | 11 |
|  | Practical |  | Cl I and Cl II cavity preparations. | 2 | 12 |
|  | Practical |  | Lining material application and amalgam placement. | 2 | 13 |
|  | Practical |  | Cl V cavity preparation for amalgam. | 2 | 14 |
| Mid year exam(theory & practical) | Practical |  | Cl V cavity preparation for composite material. | 2 | 15 |
|  | Practical |  | Lining material application. | 2 | 16 |
|  | Practical |  | Composite filling placement. | 2 | 17 |
|  | Practical |  | Cl I and Cl II cavity preparations. | 2 | 18 |
|  | Practical |  | Lining material application and amalgam placement. | 2 | 19 |
|  | Practical |  | Cl V cavity preparation for amalgam. | 2 | 20 |
|  | Practical |  | Cl V cavity preparation for composite material. | 2 | 21 |
|  | Practical |  | Lining material application. | 2 | 22 |
|  | Practical |  | Composite filling placement. | 2 | 23 |
|  | Practical |  | Cl I and Cl II cavity preparations. | 2 | 24 |
|  | Practical |  | Lining material application and amalgam placement. | 2 | 25 |
|  | Practical |  | Lining material application. | 2 | 26 |
|  | Practical |  | Composite filling placement. | 2 | 27 |
|  | Practical |  | Cl I and Cl II cavity preparations. | 2 | 28 |
|  | Practical |  | Lining material application and amalgam placement. | 2 | 29 |
| Final ( practical & theortical) | Practical |  | Cl V cavity preparation for amalgam. | 2 | 30 |

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| 1. The Infrastructure
 |
| * Sturdevant's Art and science of operative dentistry, Theodore. Roberson, 2013.
* Textbook of operative dentistry, satish Chandra
 | 1.Textbooks required |
| * Heymann, Harald, Edward J. Swift, Andre V. Ritter, and Clifford M. Sturdevant. *Sturdevant's Art and Science of Operative Dentistry*. St. Louis, Mo: Elsevier/Mosby, ed6, 2013.
* Chandra S., Chandra S., Chandra G. *Textbook of Operative Dentistry*. New Delhi: Jaypee Brothers Publishers, ed1, 2007.
 | 2.References |
|  | * 1. Recommended books and references (scientific journals, reports, ....)
 |
|  | * 1. Electronic References, and websites ....
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| 1. Plan for development of the course
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| 1. Course structure( 5 TH - OPERATIVE )
 |
| Assessment methods  | Teaching methods | Subject name | Required learning outputs  | Hours  | Week |
|  | Practical |  | Introduction | 3 | 1 |
|  | Practical |  | Case selection and diagnosis. | 3 | 2 |
|  | Practical |  | Cl III, IV, and V cavity preparations. | 3 | 3 |
| 1st & 2nd term practical | Practical |  |  Cl III, IV, and V cavity preparations. | 3 | 4 |
|  | Practical |  | Cl III, IV, and V cavity preparations. | 3 | 5 |
|  | Practical |  | Lining material application. | 3 | 6 |
|  | Practical |  | Cl I and II cavity preparations. | 3 | 7 |
|  | Practical |  | Cl V cavity preparation for amalgam. | 3 | 8 |
|  | Practical |  | Lining material application. | 3 | 9 |
|  | Practical |  | Lining material application. | 3 | 10 |
|  | Practical |  | Composite filling placement. | 3 | 11 |
|  | Practical |  | Lining material application. | 3 | 12 |
|  | Practical |  | Cl I and Cl II cavity preparations. | 3 | 13 |
|  | Practical |  | Cl V cavity preparation for amalgam. | 3 | 14 |
| Mid year exam(practical &theoretical) | Practical |  | Lining material application. | 3 | 15 |
|  | Practical |  | Cl I and Cl II cavity preparations. | 3 | 16 |
|  | Practical |  | Lining material application. | 3 | 17 |
|  | Practical |  | Cl I and Cl II cavity preparations. | 3 | 18 |
|  | Practical |  | Pin insertion for compound cavity preparation. | 3 | 19 |
|  | Practical |  | Pin insertion for compound cavity preparation. | 3 | 20 |
|  | Practical |  | Pin insertion for compound cavity preparation. | 3 | 21 |
|  | Practical |  | Screw insertion for endodontically treated teeth. | 3 | 22 |
|  | Practical |  | Screw insertion for endodontically treated teeth. | 3 | 23 |
|  | Practical |  | Screw insertion for endodontically treated teeth. | 3 | 24 |
|  | Practical |  | Other esthetic designs needed. | 3 | 25 |
|  | Practical |  | Other esthetic designs needed. | 3 | 26 |
|  | Practical |  | Other esthetic designs needed. | 3 | 27 |
|  | Practical |  | Other esthetic designs needed. | 3 | 28 |
|  | Practical |  | Compound cavity preparation. | 3 | 29 |
| Final ( practical& theortical) | Practical |  | Compound cavity preparation& filling  | 3 | 30 |

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| 1. The Infrastructure
 |
| * Sturdevant's Art and science of operative dentistry, Theodore. Roberson, 2013.
* Textbook of operative dentistry, satish Chandra
 | 1.Textbooks required |
| * Heymann, Harald, Edward J. Swift, Andre V. Ritter, and Clifford M. Sturdevant. *Sturdevant's Art and Science of Operative Dentistry*. St. Louis, Mo: Elsevier/Mosby, ed6, 2013.
* Chandra S., Chandra S., Chandra G. *Textbook of Operative Dentistry*. New Delhi: Jaypee Brothers Publishers, ed1, 2007.
 | 2.References |
|  | * 1. Recommended books and references (scientific journals, reports, ....)
 |
|  | * 1. Electronic References, and websites ....
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| 1. Plan for development of the course
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| 1. Course structure( ENDODONOTICS-4 TH)
 |
| Assessment methods  | Teaching methods | Subject name | Required learning outputs  | Hours  | week |
|  | TheoryLab | HistoryIntroduction | Information about history | 13 | 1 |
|  | TheoryLab | Basic Instrument | Information about instrumentDemonstration of basic instrument | 13 | 2 |
|  | TheoryLab | Intracanal Instrument | Information about intracranial instru.Training of basic instrument | 13 | 3 |
|  | TheoryLab | access opening  | Principle of access openingDemonstration of intracanal instrument | 13 | 4 |
|  | TheoryLab | access opening (anterior teeth) A | Training of intracanal instrument | 13 | 5 |
|  | TheoryLab | access opening posterior teeth) B | Demonstration access opening | 13 | 6 |
|  | TheoryLab | working length | Demonstration access opening | 1 | 7 |
|  | TheoryLab | root canal preparation1 | Training access opening | 3 | 8 |
|  | TheoryLab | root canal preparation2 | Training access opening | 13 | 9 |
|  | TheoryLab | Irrigants | Demonstration of root canal preparation | 13 | 10 |
|  | TheoryLab | Inter-canal medical  | Demonstration of root canal preparation  | 13 | 11 |
|  | TheoryLab | engine driven | Training of root canal preparation  | 13 | 12 |
|  | TheoryLab | engine driven | Training of root canal preparation | 13 | 13 |
|  | TheoryLab | rotary nickl-titanium | Demonstration working length | 13 | 14 |
|  | TheoryLab | rotary nickl-titanium | Training working length  | 13 | 15 |
|  |  | Mid year exam |  |  | 16 |
|  | TheoryLab | obturation materials1 | Demonstration obturation material | 13 | 17 |
|  | TheoryLab | obturation materials2 | Demonstration obturation technique A | 13 | 18 |
|  | TheoryLab | Obturation technique (principle) | Demonstration obturation technique B | 13 | 19 |
|  | TheoryLab | cold obturation technique1 | Training obturation technique A | 13 | 20 |
|  | TheoryLab | cold obturation technique2 | Training obturation technique B | 13 | 21 |
|  | TheoryLab | restoration of endodontically treated teeth (principle) | Demonstration restoration of endo teethB | 13 | 22 |
|  | TheoryLab | Restoration of endodontically treated teeth A | Demonstration restoration of endo teeth A | 13 | 23 |
|  | TheoryLab | restoration of endodontically treated teethB | Training restoration of endo teetA | 13 | 24 |
|  | TheoryLab | Post placement | Training restoration of endo teeth B | 13 | 25 |
|  | TheoryLab | heat softened gutta-percha1 | Demonstration heat softened obturation material | 13 | 26 |
|  | TheoryLab | heat softened gutta-percha2 | Demonstration heat softened obturation techniques  | 13 | 27 |
|  | TheoryLab | Diagnosis | Demonstration Niti instrument | 13 | 28 |
|  | TheoryLab | Treatment plan | Demonstration Instrumentation by rotary instr. | 13 | 29 |
|  | TheoryLab | Treatment plan | Demonstration obturation material | 13 | 30 |

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| 1. The Infrastructure
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| -------------------------- | 1.Textbooks required |
| ----------------------- | 2.References |
| ------------- | * 1. Recommended books and references (scientific journals, reports, ....)
 |
| --------------- | * 1. Electronic References, and websites ....
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| 1. Course structure ( ENDODONTICS – 5 TH )
 |
| Assessment methods  | Teaching methods | Subject name | Required learning outputs  | Hours  | Week |
|  | TheoryClinic | Diagnosis I | Learn how to diagnose  | 13 | 1 |
|  | TheoryClinic | Diagnosis II | Learn how to diagnose | 13 | 2 |
|  | TheoryClinic | Treatment plan | Lean how to do treatment plan | 13 | 3 |
|  | TheoryClinic | Radiograph | Learn how to take radiograph | 13 | 4 |
|  | TheoryClinic | Digital radiograph | Learn how to take digital radiograph | 13 | 5 |
|  | TheoryClinic | Rubber dam | Learn how to put rubber dam | 13 | 6 |
|  | TheoryClinic | Sterilization | Learn how sterilize endodontic instruments | 13 | 7 |
|  | TheoryClinic | Surgical endodontic I | Information about Surgical endodontic I | 13 | 8 |
| 1st &2nd term practical+ quiz exam | TheoryClinic | Surgical endodontic II | Information about Surgical endodontic II | 13 | 9 |
|  | TheoryClinic | MTA | Information about MTA | 13 | 10 |
|  | TheoryClinic | Mishaps I | Information about Mishaps I | 13 | 11 |
|  | TheoryClinic | Mishaps II | Information about Mishaps II | 13 | 12 |
|  | TheoryClinic | Bleaching I | Information about bleaching I | 13 | 13 |
|  | TheoryClinic | Bleaching II | Information about bleaching II | 13 | 14 |
|  | TheoryClinic | Bleaching III | Information about bleaching III | 13 | 15 |
|  | Practical+ theory |  | Mid year exam |  | 16 |
|  | TheoryClinic | Pharmacology I | Information about pharmacology I | 13 | 17 |
|  | TheoryClinic | Pharmacology II | Information about pharmacology II | 13 | 18 |
|  | TheoryClinic | Perio-endo lesion | Information about perio-endo lesion | 13 | 19 |
|  | TheoryClinic | Endodontic emergency treatment | How to do emergency  | 13 | 20 |
|  | TheoryClinic | Root resorption | Information about root resorption  | 13 | 21 |
|  | TheoryClinic | Geriatric | Information about endodontic treatment in Geriatric | 13 | 22 |
|  | TheoryClinic | Single visit endodontic |  Information about single visit endodontic  | 13 | 23 |
|  | TheoryClinic | Apical third filling | Information of apical third filling | 13 | 24 |
|  | TheoryClinic | Endodontic microbiology | Information about Endodontic microbiology | 13 | 25 |
|  | TheoryClinic | Retreatment I | Information about retreatment I | 13 | 26 |
|  | TheoryClinic | Retreatment II | Information about retreatment II | 13 | 27 |
|  | TheoryClinic | Digital technologies in endodontic I | Information aboutDigital technologies in endodontic I | 13 | 28 |
|  | TheoryClinic | Digital technologies in endodontic II | Information aboutDigital technologies  | 13 | 29 |
| Practical |  |  |  |  | 30 |

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| 1. The Infrastructure
 |
| ------ | 1.Textbooks required |
| ----- | 2.References |
| ---------------------------------------- | * 1. Recommended books and references (scientific journals, reports, ....)
 |
| ---------------- | * 1. Electronic References, and websites ....
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| 1. Plan for development of the course
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| 1. Course structure ( CROWN AND BRIDGE – 4 TH )
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| Assessment methods  | Teaching methods | Subject name | Required learning outputs  | Hours  | Week |
|  | Theoretical andPractical | Handpiece grasping techniques1 | Grasping handpiece | 1 hr Theoretical and 3 hr Practical | **1** |
|  | Theoretical andPractical | Handpiece grasping techniques2 | Grasping handpiece | 1 hr Theoretical and 3 hr Practical | **2** |
|  | Theoretical andPractical | Principles of preparation | Principles of preparation | 1 hr Theoretical and 3 hr Practical | **3** |
|  | Theoretical andPractical |  finishing line | Prepare finishing line | 1 hr Theoretical and 3 hr Practical | **4** |
| 1st &2nd term ( theory +practical | Theoretical andPractical | Principles of tooth preparation 1 | tooth preparation | 1 hr Theoretical and 3 hr Practical | **5** |
|  | Theoretical andPractical | Principles of tooth preparation 2 | tooth preparation | 1 hr Theoretical and 3 hr Practical | 6 |
|  | Theoretical andPractical | Full metal crown | Prepare metal crown | 1 hr Theoretical and 3 hr Practical | 7 |
|  | Theoretical andPractical | Full metal crown with facing | Prepare metal crown with facing | 1 hr Theoretical and 3 hr Practical | 8 |
|  | Theoretical andPractical | All ceramic crowns (jacket) | Prepare temporary crown | 1 hr Theoretical and 3 hr Practical | **9** |
|  | Theoretical andPractical | All ceramic crowns | Prepare permanent crown | 1 hr Theoretical and 3 hr Practical | **10** |
|  | Theoretical andPractical | Indirect laminate veneers | Indirect laminate veneers | 1 hr Theoretical and 3 hr Practical | **11** |
|  | Theoretical andPractical | Laminate veneers | laminate veneers | 1 hr Theoretical and 3 hr Practical | **12** |
|  | Theoretical andPractical | Partial coverage crown types | Partial coverage crown types | 1 hr Theoretical and 3 hr Practical | **13** |
|  | Theoretical andPractical | Partial coverage crowns | Partial coverage crowns | 1 hr Theoretical and 3 hr Practical | **14** |
|  | Theoretical andPractical | Restoration of endodontically treated teeth | Restoration of endodontically treated teeth | 1 hr Theoretical and 3 hr Practical | **15** |
| Mid –year exam(theory + practical  |  |  |  |  |  |
|  | Theoretical andPractical | Pontic | Pontic | 1 hr Theoretical and 3 hr Practical | **16** |
|  | Theoretical andPractical | Pontic designs | Pontic designs | 1 hr Theoretical and 3 hr Practical | **17** |
|  | Theoretical andPractical | Treatment plans | Treatment plans | 1 hr Theoretical and 3 hr Practical | **18** |
|  | Theoretical andPractical | Treatment plan | Treatment plan | 1 hr Theoretical and 3 hr Practical | **19** |
|  | Theoretical andPractical | Types of bridges | Types of bridges | 1 hr Theoretical and 3 hr Practical | **20** |
|  | Theoretical andPractical | Bridge design (simple) | Bridge design (simple) | 1 hr Theoretical and 3 hr Practical | **21** |
|  | Theoretical andPractical | Bridge design (complex) | Bridge design (complex) | 1 hr Theoretical and 3 hr Practical | 22 |
|  | Theoretical andPractical | Special problems during FPD construction | Special problems during FPD construction | 1 hr Theoretical and 3 hr Practical | 23 |
|  | Theoretical andPractical | Special problems during FPD construction | Special problems during FPD construction | 1 hr Theoretical and 3 hr Practical | 24 |
|  | Theoretical andPractical | Gingival retraction techniques | Retract gingiva to prepare the tooth 1 | 1 hr Theoretical and 3 hr Practical | 25 |
|  | Theoretical andPractical | Gingival retraction techniques | Retract gingiva to prepare the tooth 2 | 1 hr Theoretical and 3 hr Practical | 26 |
|  | Theoretical andPractical | Impression materials | Impression materials for crown and bridge | 1 hr Theoretical and 3 hr Practical | 27 |
|  | Theoretical andPractical | Impression techniques | Impression techniques | 1 hr Theoretical and 3 hr Practical | 28 |
|  | Theoretical andPractical | Indirect Inlay | Prepare intracoronal rest. In lab. | 1 hr Theoretical and 3 hr Practical | 29 |
|  | Theoretical andPractical | Indirect onlay | Prepare extracoronal rest. In lab. | 1 hr Theoretical and 3 hr Practical | 30 |

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|  | 1.Textbooks required |
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 2.References |
|  | * 1. Recommended books and references (scientific journals, reports, ....)
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|  | * 1. Electronic References, and websites ....
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| 1. Course structure( CROWN AND BRIDGE -5 TH )
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| Assessment methods  | Teaching methods | Subject name | Required learning outputs  | Hours  | Week |
|  | Theoretical andPractical | Introduction in crown and bridges and case selection | Prepare the student how to select the case | 1 hr Theoretical and 3 hr Practical | 1 |
|  | Theoretical andPractical | Examination and diagnosis | Examination and diagnosis | 1 hr Theoretical and 3 hr Practical | 2 |
|  | Theoretical andPractical | Fluid control | isolation | 1 hr Theoretical and 3 hr Practical | 3 |
|  | Theoretical andPractical | Soft tissue management | Knowing how to treat the related soft tissue | 1 hr Theoretical and 3 hr Practical | 4 |
| 1st&2nd Term theory | Theoretical andPractical | Impression materials | Impression materials | 1 hr Theoretical and 3 hr Practical | 5 |
|  | Theoretical andPractical | Impression techniques | Impression techniques | 1 hr Theoretical and 3 hr Practical | 6 |
|  | Theoretical andPractical | Provisional Restorations | Prepare temporary restoration 1 | 1 hr Theoretical and 3 hr Practical | 7 |
|  | Theoretical andPractical | Provisional Restorations II | Prepare temporary restoration2 | 1 hr Theoretical and 3 hr Practical | 8 |
|  | Theoretical andPractical | Esthetic consideration | Get attention to the esthetic | 1 hr Theoretical and 3 hr Practical | 9 |
|  | Theoretical andPractical | Shade selection | Select the proper color | 1 hr Theoretical and 3 hr Practical | 10 |
|  | Theoretical andPractical | Shade quides in common use | Using shade guide properly | 1 hr Theoretical and 3 hr Practical | 11 |
|  | Theoretical andPractical | Articulators and articulation | Get the right articulation | 1 hr Theoretical and 3 hr Practical | 12 |
| Mid&final( practical+theory | Theoretical andPractical | Occlusion | Occlusion | 1 hr Theoretical and 3 hr Practical | 13 |
|  | Theoretical andPractical | Occlusal interferences | Occlusal interferences | 1 hr Theoretical and 3 hr Practical | 14 |
|  | Theoretical andPractical | Occlusal interferences II | Occlusal interferences II | 1 hr Theoretical and 3 hr Practical | 15  |
|  | Theoretical andPractical | Working cast and die | Working cast and die | 1 hr Theoretical and 3 hr Practical | 16 |
|  | Theoretical andPractical | Waxing | Waxing | 1 hr Theoretical and 3 hr Practical | 17 |
|  | Theoretical andPractical | Investing | Investing | 1 hr Theoretical and 3 hr Practical | 18 |
|  | Theoretical andPractical | Casting | Casting | 1 hr Theoretical and 3 hr Practical | 19 |
|  | Theoretical andPractical | Try in and cementation | Try in and cementation | 1 hr Theoretical and 3 hr Practical | 20 |
|  | Theoretical andPractical | Metal ceramic restorations | Metal ceramic restorations | 1 hr Theoretical and 3 hr Practical | 21 |
|  | Theoretical andPractical |  Metal ceramic restorations | Metal ceramic restorations | 1 hr Theoretical and 3 hr Practical | 22 |
|  | Theoretical andPractical | Resin bonded F.P.D | Resin bonded F.P.D | 1 hr Theoretical and 3 hr Practical | 23 |
|  | Theoretical andPractical | Implant supported prosthesis | Implant supported prosthesis | 1 hr Theoretical and 3 hr Practical | 24 |
|  | Theoretical andPractical | All ceramic restoration | All ceramic restoration | 1 hr Theoretical and 3 hr Practical | 25 |
|  | Theoretical andPractical | All ceramic restoration \ laminated | All ceramic restoration \ laminated | 1 hr Theoretical and 3 hr Practical | 26 |
|  | Theoretical andPractical | Veneer | veneer | 1 hr Theoretical and 3 hr Practical | 27 |
|  | Theoretical andPractical | All ceramic restoration \zirconia | All ceramic restoration \zirconia | 1 hr Theoretical and 3 hr Practical | 28 |
|  | Theoretical andPractical | CAD \ CAM in crown and bridges | CAD \ CAM in crown and bridges | 1 hr Theoretical and 3 hr Practical | 29 |
|  | Theoretical andPractical | Failures in crown and bridges | Failures in crown and bridges | 1 hr Theoretical and 3 hr Practical | 30 |

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