

Faculty of Oral & Dental Medicine

Endodontics Technology

Information :

Course Code : CONS 434

Level : Undergraduate

Course Hours : 2.00- Hours

Department : Faculty of Oral & Dental Medicine

Instructor Information :

Title	Name	Office hours
Professor	Wael Hussein Kamel Elsayed Kamel Ahmed	4
Associate Professor	Adel Abdel Wahed Mahmoud Abdallah	1
Lecturer	MAHMOUD MOHAMED HUSSEIN MAHMOUD BADR	2
Lecturer	MARWA MOATAZ IBRAHIM ABOUSHADI	2
Lecturer	MAHMOUD MOHAMED HUSSEIN MAHMOUD BADR	2
Lecturer	MARWA WAGIH SAAD IBRAHIM ELBORAEY	
Lecturer	MARWA WAGIH SAAD IBRAHIM ELBORAEY	
Lecturer	Amgad Hassan Elsayed Mohamed Soliman	2
Lecturer	MARWA MOATAZ IBRAHIM ABOUSHADI	2
Lecturer	El Said Mohamed Ali Abdel Hafez	2
Assistant Lecturer	Samar Talaat Mohamed Mohamed	
Assistant Lecturer	AHMED AMR IBRAHIM ELWAKAD	
Assistant Lecturer	KHOLOUD MOHAMED EMAM TAHA EMAM	2
Assistant Lecturer	Dalia Abdel Fattah Abbas Sayed	2
Assistant Lecturer	AHMED AMR IBRAHIM ELWAKAD	
Assistant Lecturer	Nouran Aser Mostafa Mohamed ElAfifi	
Assistant Lecturer	Hesham Mohamed Salah Eldin Gad Ibrahim	
Assistant Lecturer	Maie Magdy Abdel Ghany Bassiouny	
Assistant Lecturer	Taghreed Salah Elsayed Abdelrazek Mohamed	
Assistant Lecturer	yasmine Ashraf Elsayed Abou khalaf	
Assistant Lecturer	RANA AMR MAHMOUD ELKASHAB	
Assistant Lecturer	yasmine Ashraf Elsayed Abou khalaf	
Assistant Lecturer	RANA AMR MAHMOUD ELKASHAB	
Assistant Lecturer	Hesham Mohamed Salah Eldin Gad Ibrahim	
Assistant Lecturer	Samar Talaat Mohamed Mohamed	
Teaching Assistant	Hatem Tarek Salah eldin Ahmed Mohamed Elsayed Abu Shousha	
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13 -	by the end of the course , students should be able to : a- Define ethical principles including : autonomy , nonmaleficence , beneficence , justice , veracity , and fidelity . b- List of items included in endodontic treatment record including the follow up visits . c- Understand the importance of keeping a treatment record and of obtaining an informed consent
b.Intellectual Skills: :	
1 -	By the end of the course students should be able to distinguish between clinical signs and symptoms and radiographic features of pulpal diseases
2 -	By the end of the course students should be able to interpret radiographs for extracted teeth and determine adjusted working length , verify master cone and evaluate postoperative obturation.
3 -	By the end of the course students should be able to select and apply the appropriate instrumentation , obturation materials for simple cases such.
c.Professional and Practical Skills: :	
1 -	Concerning the pulp space morphology and macroscopic anatomy , by the end of the course students should be able to a- Draw and label the most common internal and external anatomy of each tooth in the following planes : sagittal section of mesiodistal and faciolingual planes , and cross section through the cervical , middle and apical thirds of the root. b- Draw and label the outline form of the access preparation for all teeth and show the location of each orifice relative to the occlusal or lingual surface
2 -	Concerning the endodontic coronal access cavity preparation , by the end of the course students should be able to c- Draw and label diagrams of the steps involved for complete access preparations on various teeth. d- Draw and label errors that might occur during access preparations e- Perform with excellence coronal access cavities in anterior , premolar and molar extracted permanent teeth
3 -	Concerning the cleaning and shaping of the root canal , by the end of the course students should be able to a- Draw and label diagram of both step back preparation crown down techniques. b- Draw and label errors that might occur during radicular preparation. c- Perform the step by step technique for obtaining the working lengths using Ingle's method. d- Choose the appropriate instruments and perform with excellence step back preparation technique in anterior and extracted premolar teeth e- Practice the proper use of root canal instruments and their file motions. f- Practice the use of gates-gildden drills in early radicular access
4 -	By the end of the course , students should be able to choose and use the appropriate irrigating solution , needles and techniques that provide maximal and safe irrigant effect.
5 -	Concerning the root canal obturation , by the end of the course students should be able to : a- Draw and label diagram of lateral compaction technique. b- Draw and label errors that might occur during obturation. c- Choose the appropriate instruments and perform with excellence preparation of the canal for obturation , master cone fitting , and sealer mixing lateral condensation technique , in anterior and premolar extracted permanent teeth.
6 -	By the end of the course , students should be able to perform the organization of instrument for various procedures and their sterilization
7 -	the end of the course , students should be able to apply the rubber / dam properly and choose the appropriate clamp for anterior , premolar , and molar
8 -	the end of the course , students should be able to apply the technical skills of coronal access preparation , working length determination radicular preparation , and obturation on clinical cases diagnosed with vital pulp disease.
9 -	the end of the course , students should be able to write a prescription for managing pain
d.General and Transferable Skills: :	
1 -	the end of the course , students should be able to perform infection control and sterilization of instruments
2 -	the end of the course , students should be able to communicate effectively and ethically with members of the dental staff and with patients

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Cleaning and shaping of root canals	3	Mishaps	
Obturation of root canals	3	Mishaps	
Pulp and periapical disease	3	Mishaps	
Differential diagnosis of pulp diseases	3	Diagnosis of pulp and periapical disease	
Pulp and periapical microbiology & immunology	3	Diagnosis of pulp and periapical disease	
Application of therapeutics in endodontics	3	Pulp and periapical disease	
Records & legal responsibilities	3	Pulp and periapical disease	
Ethics in endodontics	3	Pulp and periapical disease	

Teaching And Learning Methodologies :

Lectures

Small group (Practical and clinical training)

Demonstrations

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
1st Mid Term Examination	15.00		(short questions , multiple choice , quizzes , assignments) to assess knowledge and understanding.
2nd Mid Term Examination	15.00		(short questions , multiple choice , quizzes , assignments) to assess knowledge and understanding.
Final Written Examination	25.00		
Mid Term Practical Examination	20.00		
Oral Examination	10.00		
Practical Examination	15.00		assess clinical skills

Course Notes :

Department books available for students to purchase

Periodicals :

- Endodontics by Ingle. (library)
- Pathways of the pulp by Stephan Cohen and Richard Burnes (library)
- Principles and practice of endodontics by Torabinejad (library)