

In the Name of God

Islamic Republic of Iran Ministry of Health and Medical Education Deputy Ministry for Education

Endodontics

Degree: Specialty equivalent to Master of Science (MSc)

Total Course Credits

- | | |
|---------------------------|-----|
| • Core courses | 106 |
| • Common basic sciences | 9.5 |
| • Specific basic sciences | 3.5 |
| • Related sciences | 1 |

Program Description

Endodontics is a clinical Master of Science course in Dentistry. The graduates in endodontics acquire the necessary theoretical, practical, behavioral and cognitive skills during the course to be able to play an important role in the prevention, diagnosis and treatment of the pulp and periapical diseases.

We believe it is the right of every human being to be healthy and all the medical personnel should feel responsible for the provision, preservation and promotion of the health of all the community members. We believe the specialists in this branch of dentistry (endodontists) will be able, through learning the preventive, diagnostic and therapeutic techniques of the pulp and periapical diseases and through the use of the best equipment, materials and novel techniques, to play a great role in preserving teeth and promoting the health of all the members of the community. We also believe it is possible to render the best services to the community by adopting community-oriented attitudes by considering the needs of the community and by relying on effective practical-communicative skills.

By considering the 10-year Prospects Document up to 2025, we aim to train knowledgeable and efficient specialists in the fields of prevention and treatment and also aim, through expanding the boundaries of knowledge in endodontics, to achieve a prominent position in this region and to significantly decrease the number of teeth extracted for endodontic reasons.

The mission of this field is to train the specialist human resources based on global standards and based on the needs of the country. The graduates will be able to offer the best preventive-therapeutic services and will be able to teach in dental faculties all over the country to develop research activities and expand the boundaries of knowledge.

Admission Requirements

- Holding an DDS or DMD degree from any accredited Dental School
- Having passed the National Entrance Exam

Expected Competencies at the End of the Program

Specific Competencies and Skills

At the end of the program learners will be competent in the following skills:

- Accurate implementation of diagnostic tests
- Preparation of an appropriate access cavity in all the teeth
- Preparation of straight and curved root canals with hand and rotary systems
- Obturation of straight and curved root canals
- Retreatment of teeth with one or several root canals
- Carrying out root-end surgeries by placing a retrograde material
- Vital pulp therapy
- Apexogenesis
- Apexification by placing apical plugs
- Regeneration of necrotic teeth with open apices
- Management and treatment of traumatized teeth
- Fresh socket implant treatment
- Bleaching of non-vital teeth
- Forming a team to do interdisciplinary approach by being involved with different postgraduate programs for treating complicated cases
- Doing endodontic treatment for disabled people under general anesthesia

Educational Strategies, Methods and Techniques*

Student Assessment (Methods and Types)

- Formative
- Summative
- Comprehensive exam

Ethical Considerations*

*Note: The related document(s) can be found at <http://hcmep.behdasht.gov.ir/>.

Tables of the Courses

Table 1. The common basic sciences courses in Endodontics MSc

Code of the Course	Title of the Course	Number of Credits			Hours			Total units	Prerequisites
		Theoretical	Practical	Workshop	Theoretical	Practical	Workshop		
1	Medical education (1)	-	-	1	-	-	51	1	
2	Medical education (2)	-	-	2	-	-	102	2	
3	Research methods and EBD	-	-	2	-	-	102	2	
4	Clinical photography*	-	-	1	-	-	51	1	
5	Medical emergencies	-	-	0.5	-	-	24	0.5	
6	Medical laws and professional ethics	-	-	1	-	-	51	1	
7	Infection control and patient safety	-	-	1	-	-	51	1	
8	Clinical management and authority	-	-	1	-	-	51	1	
Total		-	-	9.5	-	-	483	9.5	

*This course is optional.

Table 2. The specific basic sciences courses in Endodontics PhD


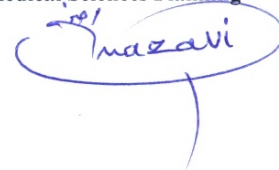
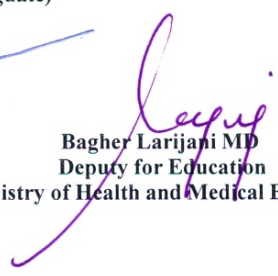
Code of the Course	Title of the Course	Number of Credits			Hours			Total units	Prerequisites
		Theoretical	Practical	Workshop	Theoretical	Practical	Workshop		
9	The principles of oral pathology	0.5	-	-	9	-	-	0.5	
10	Oral immunology and microbiology	0.5	-	-	9	-	-	0.5	
11	Applied head and neck anatomy	-	0.5	-	-	17	-	0.5	
12	Oral and head and neck histology and microbiology	0.5	-	-	9	-	-	0.5	
13	Dental biomaterials	0.5	-	-	9	-	-	0.5	
14	Pharmacology	0.5	-	-	9	-	-	0.5	
15	Oral physiology and biology	0.5	-	-	9	-	-	0.5	
Total		3	0.5	-	54	17	-	3.5	

Table 3. The related sciences courses in Endodontics PhD

Code of the Course	Title of the Course	Number of Credits			Hours			Total units	Prerequisites
		Theoretical	Practical	Workshop	Theoretical	Practical	Workshop		
16	Interdisciplinary seminar (periodontics-pedodontics)	0.5	-	-	9	-	-	0.5	
17	Interdisciplinary seminar (restorative-prosthodontics)	0.5	-	-	9	-	-	0.5	
Total		1	-	-	18	-	-	1	

Table 4. The core courses in Endodontics PhD

Code of the Course	Title of the Course	Number of Credits			Hours			Total units	Prerequisites
		Theoretical	Practical	Workshop	Theoretical	Practical	Workshop		
18	Case presentation (1)	1.5	-	-	26	-	-	1.5	
19	Case presentation (2)	1.5	-	-	26	-	-	1.5	
20	Case presentation (3)	1.5	-	-	26	-	-	1.5	
21	Case presentation (4)	1.5	-	-	26	-	-	1.5	
22	Evidence-based Endodontics	1	-	-	17	-	-	1	
23	Theoretical endodontics (1)	6	-	-	102	-	-	6	
24	Theoretical endodontics (2)	6	-	-	102	-	-	6	
25	Theoretical endodontics (3)	6	-	-	102	-	-	6	
26	Theoretical endodontics (4)	6	-	-	102	-	-	6	
27	Theoretical endodontics (5)	6	-	-	102	-	-	6	
28	Theoretical endodontics (6)	12	-	-	204	-	-	12	
29	Practical endodontics (1)	-	6	-	-	204	-	6	
30	Practical endodontics (2)	-	6	-	-	204	-	6	
31	Practical endodontics (3)	-	6	-	-	204	-	6	
32	Practical endodontics (4)	-	6	-	-	204	-	6	
33	Practical endodontics (5)	-	6	-	-	204	-	6	
34	Practical endodontics (6)	-	2	-	-	68	-	2	
35	Dissertation (1)	-	-	2	-	-	102	2	
36	Dissertation (2)	-	-	2	-	-	102	2	
37	Dissertation (3)	-	2	-	-	68	-	2	
38	Dissertation (4)	-	-	2	-	-	102	2	
39	Dissertation (5)	-	-	2	-	-	102	2	
40	Journal club (1)	1.5	-	-	26	-	-	1.5	
41	Journal club (2)	1.5	-	-	26	-	-	1.5	
42	Journal club (3)	1.5	-	-	26	-	-	1.5	
43	Journal club (4)	1.5	-	-	26	-	-	1.5	
44	Journal club (5)	1.5	-	-	26	-	-	1.5	
45	Journal club (6)	1.5	-	-	28	-	-	1.5	
46	Participation in training students (1)	-	2	-	-	68	-	2	
47	Participation in training students (1)	-	2	-	-	68	-	2	
48	Participation in training students (1)	-	2	-	-	68	-	2	
Total		58	40	8	974	1360	408	106	

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