

In the Name of God
Islamic Republic of Iran
Ministry of Health and Medical Education
Deputy Ministry for Education

Dentistry

Degree: Doctor of Dental Surgery (DDS)

Total Course Credits

- General Courses: 24
- Basic Courses: 39
- Specialized Courses (core): 150*
- Specialized Courses (non-core): 4

* Thesis is included: 7

Program Description:

Doctor of Dental Surgery (DDS) is a critical branch in the field of medical sciences to provide the society with the best oral health services.

Dental professionals are expected to have enough general knowledge in different fields of dental sciences to meet dental-related needs of the society at different levels as detailed below.

The specific objectives are as follows:

- a) To meet the general educational, professional, and research needs in the field of dentistry to better understand dental sciences and better serve to the needs of the society.
- b) To achieve scientific competencies in the area of research and
- c) study in dental sciences.

Admission Requirements:

DDS is a grade where students will get into this field by taking part in a national countrywide universities entrance exam after they get their high school diploma. Those who will get the minimum required marks, will be admitted to this field.

Expected Competencies at the End of the Program

General Competencies

- Communication Skills
- Education
- Research and the scientific writing
- Critical thinking and problem-solving skills
- Professionalism

Specific Competencies and Skills

- At the end of the program, learners will be competent in the following skills:
 - To work as a responsible and professional dentist everywhere needed from public to hospital or industry.
 - To do study and research in the field.

- To take a role in dental management, marketing, policy and regulatory aspects, etc.
- To work in the dental and related industries (prosthetic, cosmetic, hygienic, biological products, etc.)
 - To be able to teach general theoretical and practical courses in the field

Educational Strategies, Methods and Techniques

- Task based learning
- A combination of student- and teacher-based learning
- Problem-based learning
- Hospital-based learning
- Subject-directed learning
- Systematic learning
- Evidence-based learning
- Disciplinary learning with some integration as required
- Community-oriented learning

Student Assessment (Methods and Types)

a) Methods of the assessment

Residents will be evaluated by the following methods:

Written, verbal, OSLE, Logbook.

b) Types of the assessment

Formative and summative

Ethical Considerations*

It is expected that learners:

- Strictly adhere to the patients bill of rights
- Make provisions for the biosafety of the patients, staff, and workplace.
- Strictly comply with the dress code.
- Carefully follow the ethical code with respect to working with animals.
- Protect resources and equipment used under any circumstances.
- Be respectful toward the faculty, staff, peers, and other learners engaging in creating a sincere and respectful atmosphere in the workplace.

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

Tables of the Courses

Table 1. General Courses

Code	Course Name	Number of Credits	Hours			Prerequisites or Concurrent Courses
			Theoretical	Practical	Total	
1	Two Courses from Islamic Theories Courses*	4	68	-	68	-
2	One Course from Islamic Ethics Courses*	2	34	-	34	-
3	One Course from Islamic Revolution of Iran Courses*	2	34	-	34	-
4	One Course from Islamic History and Civilization Courses*	2	34	-	34	-
5	One Course from Islamic Sources Courses*	2	34	-	34	-
6	Persian Literature	3	51	-	51	-
7	General English	3	51	-	51	-
8	Islamic and Iranian Culture and Civilization	2	34	-	34	-
9	Sports 1	1	-	34	34	-
10	Sports 2	1	-	34	34	9
11	Family and Population Planning	2	34	-	34	-
12	Total	24	-	-	-	-

* Completing these courses is according to the titles of Islamic Education General Courses (the following table), ratified on meeting 542 of the Supreme Council of the Cultural Revolution dated 2004/07/13.

Islamic Education General Courses	Sub-discipline	Course Code	Course Title	Credits	Hours	Prerequisite		
	1- Theoretic Fundamentals of Islam	11	Islamic Thought 1	2	Theory	Practical	Total	-
		12	Islamic Thought 2	2	34	-	34	-
		13	Human in Islam	2	34	-	34	-
		14	Social and Political Rights in Islam	2	34	-	34	-
	2- Islamic Ethics	21	Philosophy of Ethics	2	34	-	34	-
		22	Islamic Ethics	2	34	-	34	-
		23	Ethics of Living	2	34	-	34	-
		24	Practical Theosophy of Islam	2	34	-	34	-
	3- Islamic Revolution	31	Islamic Revolution of Iran	2	34	-	34	-
32		Constitutional Laws of Islamic Republic of Iran	2	34	-	34	-	
33		Political Thoughts of Imam Khomeini	2	34	-	34	-	
4- Islamic History and Civilization	41	History of Islamic Culture and Civilization	2	34	-	34	-	
	42	Analytical History of Early Islam	2	34	-	34	-	
	43	History of Imamah	2	34	-	34	-	

5- Islamic Resources	51	Quran Thematic Commentary	2	34	-	34	-
	52	Nahj al-Balagha Thematic Commentary	2	34	-	34	-
Total			120	408	-	408	-

Table2. Basic Courses

Code	Course Name	Number of Credits		Total of Credits	Prerequisite or Concurrent Courses
		Theory	Practical		
1	General Pathology (Theory)	2.5	–	2.5	3, 6, 13, 17
2	General Pathology (Practical)	–	0.5	0.5	3, 6, 13, 17
3	Parasitology and Mycology	1	–	1	–
4	Immunology (Theory)	2.5	–	2.5	13, 17
5	Immunology (Practical)	–	0.5	0.5	13, 17
6	Bacteriology (Theory)	3	–	3	–
7	Bacteriology (Practical)	–	1	1	–
8_1	Biochemistry 1 (Theory)	4	–	4	–
8_2	Biochemistry 2 (Theory)				
9	Biochemistry (Practical)	–	1	1	–
10	Psychology and Communicative Skills	2	–	2	–
11	Human Genetics	2	–	2	–
12	Oral Health and Society	1.5	0.5	2	–
13	Anatomy 1	3	1	4	–
14	Anatomy 2	2	1	3	13
15	Anatomy 3	1	1	2	14
16	Medical Physics	0.5	0.5	1	–
17_1	Physiology 1 (Theory)	5	–	5	1-8, 13
17_2	Physiology 2 (Theory)				
18	Physiology (Practical)	–	1	1	1-8, 13
19	Medical Virology	1	–	1	–
Total		31	8	39	–

Note1: Practical courses are not offered before Theoretical courses.

Note2: Theoretical and practical courses are offered simultaneously. In case that these courses are not taken in the same semester, theoretical courses are prerequisite to theoretical ones.

Table 3. Specialized Courses (Core)

Code	Course Name	Number of Credits				Total of Credits	Prerequisite or Concurrent Courses	Hours	
		Theory	Practical	Workshops	Internship			Theory	Non-Theory
20	Oral and Maxillofacial Pathology 1 (Practical)	–	1	–	–	1	2, 13, 41	–	34
21	Oral and Maxillofacial Pathology 2 (Practical)	–	1	–	–	1	20	–	34
22	Clinical Communicative Skills Education	–	–	1	–	1	–	51	
23	Tooth Anatomy and Morphology (Theory and Practical)	0.5	2.5	–	–	3	–	37	
24	Medical Ethics, Professional Conduct, and Law	–	–	1	–	1	–	51	
25	Orthodontics Theory 1	1	–	–	–	1	–	17	–
26	Orthodontics Theory 2	1	–	–	–	1	25	17	–
27	Orthodontics Theory 3	1	–	–	–	1	26	17	–
28	Orthodontics Practical 1	–	1	–	–	1	25	–	34
29	Orthodontics Practical 2	–	1	–	–	1	26, 28	–	34
30	Orthodontics Practical 3	–	1	–	–	1	27, 29	–	34
31	Orthodontics Practical 4	–	1	–	–	1	30	–	34
32	Endodontics Fundamentals 1 (Theory-Practical)	0.5	1.5	–	–	2	23, 41, 90, 113	60	
33	Endodontics Fundamentals 2 (Theory-Practical)	0.5	1.5	–	–	2	32	60	
34	Endodontics 1 Theory	1	–	–	–	1	32	17	–
35	Endodontics 2 Theory	1	–	–	–	1	34	17	–
36	Endodontics 1 Practical	–	2	–	–	2	33, 34	–	68

37	Endodontics 2 Practical	–	2	–	–	2	35, 36	–	68
38	Endodontics 3 Practical	–	1	–	–	1	37	–	34
39	Dental Implants Theory	1	–	–	–	1	53, 58, 66, 68, 81, 84, 89	17	–
40	Dental Implants Practical	–	1	–	–	1	39	–	34
41	Dental Tissue in Healthy state and Diseases	2	–	–	–	2	6	34	–
42	Local Anesthesia (Theory-Practical)	0.5	0.5	–	–	1	–	26	
43	Oral and Maxillofacial Disorders 1 Practical	–	2	–	–	2	10, 22	–	68
44	Oral and Maxillofacial Disorders 2 Practical	–	1	–	–	1	43, 47, 48	–	34
45	Oral and Maxillofacial Disorders 3 Practical	–	1	–	–	1	44	–	34
46	Psychologic Disorders	1	–	–	–	1	–	17	–
47	Systemic Disorders 1	1	–	–	–	1	–	17	–
48	Systemic Disorders 2	1	–	–	–	1	47	18	–
49	Systemic Disorders 3 (Theory-Practical)	0.5	0.5	–	–	1	48	26	
50	Systemic Disorders 4	–	1	–	–	1	49	–	34
51	Fundamentals of Complete Protheses (Theory-Practical)	1	2	–	–	3	23, 122	85	
52	Treatment of Fully Edentulous Patients	1	–	–	–	1	51	17	–
53	Fundamentals of Partial Protheses (Theory-Practical)	1	2	–	–	3	51, 73, 122	85	

54	Fundamentals of Fixed Prosthodontics (Theory-Practical)	1	3	–	–	4	23, 33, 122	121	
55	Complete Prosthesis 1 Practical	–	2	–	–	2	51	–	68
56	Complete Prosthesis 2 Practical	–	2	–	–	2	55	–	68
57	Partial Prosthesis 1 Practical	–	2	–	–	2	53, 61	–	68
58	Partial Prosthesis 2 Practical	–	2	–	–	2	57	–	68
59	Fixed Prosthodontics 1 Practical	–	2	–	–	2	54, 76	–	68
60	Fixed Prosthodontics 2 Practical	–	2	–	–	2	59, 62	–	68
61	Advanced Dental Prosthesis 1 Theory	1	–	–	–	1	52, 53, 54	17	–
62	Advanced Dental Prosthesis 2 Theory	1	–	–	–	1	61	17	–
63	Advanced Dental Prosthesis Practical	–	2	–	–	2	62	–	68
64	Periodontics 1 Theory	1	–	–	–	1	–	17	–
65	Periodontics 2 Theory	1	–	–	–	1	64	17	–
66	Periodontics 3 Theory	1	–	–	–	1	65	17	–
67	Periodontics 1 Practical	–	1	–	–	1	64	–	34
68	Periodontics 2 Practical	–	1	–	–	1	67	–	34
69	Periodontics 3 Practical	–	1	–	–	1	68	–	34
70	Periodontics 4 Practical	–	1	–	–	1	69	–	34
71	Dental Equipment and Ergonomy	–	–	1	–	1	–	–	51
72	Oral and Maxillofacial Traumatology	1	–	–	–	1	32, 73, 80, 89, 115	17	–
73	Fundamentals of Restorative Dentistry	1	2	–	–	3	23, 41, 122	85	

	(Theory_Practical)								
74	Restorative Dentistry 1 (Theory)	1	–	–	–	1	73	17	–
75	Restorative Dentistry 2 (Theory)	1	–	–	–	1	74	17	–
76	Restorative Dentistry 1 (Practical)	–	1	–	–	1	42, 73, 114, 122	–	34
77	Restorative Dentistry 2 (Practical)	–	2	–	–	2	76	–	68
78	Restorative Dentistry 3 (Practical)	–	1	–	–	1	77	–	34
79	Nutrition in Oral Health	1	–	–	–	1	–	17	–
80	Oral and Maxillofacial Surgery 1 Theory	1	–	–	–	1	42	17	–
81	Oral and Maxillofacial Surgery 2 Theory	1	–	–	–	1	80	17	–
82	Oral and Maxillofacial Surgery 1 Practical	–	1	–	–	1	80	–	34
83	Oral and Maxillofacial Surgery 2 Practical	–	1	–	–	1	82	–	34
84	Oral and Maxillofacial Surgery 3 Practical	–	2	–	–	2	83	–	68
85	Oral and Maxillofacial Surgery 4 Practical	–	2	–	–	2	84	–	34
86	Quality Management and Optimization of Clinical Services (Theory-Practical)	0.5	0.5	–	–	1	12, 22, 101	26	

87	Pain and Pharmacology in Dentistry	–	–	1	–	1	110	–	51
88	Oral and Maxillofacial Radiology 1 Theory	1	–	–	–	1	16, 23	17	–
89	Oral and Maxillofacial Radiology 2 Theory	1	–	–	–	1	88	17	–
90	Oral and Maxillofacial Radiology 1 Practical	–	1	–	–	1	88	–	34
91	Oral and Maxillofacial Radiology 2 Practical	–	1	–	–	1	89, 90	–	34
92	Oral and Maxillofacial Radiology 2 Practical	–	1	–	–	1	91	–	34
93	Research Methodology 1	–	–	1	–	1	112	–	51
94	Research Methodology 2	–	–	1	–	1	93	–	51
95	Specialized English 1	1	–	–	–	1	–	17	–
96	Specialized English 2	1	–	–	–	1	–	17	–
97	Specialized English 3	1	–	–	–	1	–	17	–
98	Specialized English 4	1	–	–	–	1	–	17	–
99	Geriatrics (Theory-Practical)	0.5	0.5	–	–	1	–	26	–
100	Oral Health and Social Dentistry 1 Theory	1	–	–	–	1	10, 12	17	–
101	Oral Health and Social Dentistry 2 Theory	1	–	–	–	1	100	17	–
102	Oral Health and Social Dentistry 1 Practical	–	1	–	–	1	100	–	34
103	Oral Health and Social Dentistry 2 Practical	–	1	–	–	1	101, 102	–	34

104	Oral Health and Social Dentistry 3 Practical	–	–	–	1	1	103	–	34
105	Diagnostic Dentistry 1	0.5	0.5	–	–	1	10	25	–
106	Diagnostic Dentistry 2	1	–	–	–	1	41	17	–
107	Diagnostic Dentistry 3	2	–	–	–	2	41, 43	34	–
108	Diagnostic Dentistry 4	2	–	–	–	2	106, 107	34	–
109	Diagnostic Dentistry 5	1	–	–	–	1	108	17	–
110	Pharmacology	2	–	–	–	2	–	34	–
111	Medical Emergencies in Dentistry (Theory-Practical)	0.5	0.5	–	–	1	–	26	–
112	Computer Application in Dentistry	–	–	1	–	1	–	–	51
113	Pulp and Periapical Complex	1	–	–	–	1	41	17	–
114	Infection Control	–	–	1	–	1	6	–	51
115	Pediatric Dentistry 1 Theory	1	–	–	–	1	34, 64, 74, 80, 88	17	–
116	Pediatric Dentistry 2 Theory	1	–	–	–	1	110, 115	17	–
117	Pediatric Dentistry 1 Practical	–	2	–	–	2	36, 76, 90, 114, 115	–	68
118	Pediatric Dentistry 2 Practical	–	2	–	–	2	77, 117	–	68
119	Pediatric Dentistry 3 Practical	–	2	–	–	2	118	–	68
120	ENT	1	–	–	–	1	–	17	–
121	Temporomandibular Joint and Occlusion	–	–	1	–	1	–	–	51
122	Fundamentals of Dental Materials	1	–	–	–	1	–	17	–
123	Practical Dental Materials	–	–	1	–	1	122	–	51
124	Oral and Maxillofacial Anomalies	1	–	–	–	1	1	17	–

125	Scientific Writing and Evidence Based Dentistry	–	–	1	–	1	94	–	51
126	Comprehensive Dental Treatment 1	–	–	–	2	2	37, 43, 57, 59, 69, 77, 84, 103, 106, 109	–	136
127	Comprehensive Dental Treatment 2	–	–	–	2	2	126	–	168
128	Thesis 1	–	1	–	–	1	94	–	34
129	Thesis 2	–	1	–	–	1	128	–	34
130	Thesis 3	–	1	–	–	1	129	–	34
131	Thesis 4	–	4	–	–	4	125, 130	–	136
Total						150			

Table 4. Non-core Courses (Elective)

Code	Course Name	Number of Credits				Total of Credits	Prerequisite or Concurrent Courses	Hours	
		Theory	Practical	Workshops	Internship			Theory	Non-Theory
132	Advanced Epidemiology 1 Theory	2	–	–	–	2	94	34	–
133	Advanced Epidemiology 2 Theory	2	–	–	–	2	94	34	–
134	Health Finance	2	–	–	–	2	–		
135	Sociology of Health	1	–	–	–	1	–	–	68
136	Oral and Maxillofacial Surgery 5 Practical	–	2	–	–	2	85	–	34
137	Bleaching Therapy	0.5	1.5	–	–	2	75	17	
138	Family Dentistry in Health Sector	–	–	–	2	2	–	134	
139	Regenerative Dentistry	1	–	–	–	1	–	17	–
140	Dentistry in Crisis	1	–	–	–	1	–	17	–
141	Forensic Dentistry	0.5	0.5	–	–	1	–	26	
142	Psychology in Dentistry	1	–	–	–	1	–	17	–
143	Bio-statistics Methods	2	–	–	–	2	94	34	–
144	Oral Health and Smoking	–	–	1	–	1	–	–	51
145	Fundamentals of Light and LASER in Dentistry	1	–	–	–	1	16	17	–
146	Clinical Applications of	–	2	–	–	2	145	–	68

	LASER in Dentistry								
147	Fundamentals of Finite Element Analysis	1	–	–	–	1	–	17	–
148	Fundamentals of Organization and Management	1	–	–	–	1	–	17	–
149	Health Services Management	2	–	–	–	2	–	34	–
150	Modern Sciences in Dentistry	2	–	–	–	2	–	34	–
151	Tissue Engineering and NanoBiomaterials in Dentistry	–	–	1	–	1	122	–	51
Total						30			

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