



In the Name of God

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

Oral and Maxillofacial Radiology

Degree: Specialty equivalent to Master of Science

Total Course Credits

- | | |
|---------------------------------------|-----|
| • General basic sciences: | 9.5 |
| • Specific basic sciences: | 1 |
| • Faculty-presented related sciences | 6 |
| • Hospital-presented related sciences | 13 |
| • Core courses | 93 |

Program Description

Definition

Oral and maxillofacial radiology is one of the specialty courses in dentistry, which deals with the principles of physics and radiation protection, imaging techniques and interpretation of lesions.

Graduates passing the specialty exams held by the authorities of the Ministry of Health, Treatment and Medical Education will be certified as oral and maxillofacial radiologists.

The General Aim

The aim of the curriculum in the field of oral and maxillofacial radiology is to train specialists who have achieved the standards of knowledge, beliefs and opinions and practical skills up to national and global standards. In addition, the graduates should be able to provide high-quality diagnostic services and have an active role in expanding the boundaries of knowledge and research within the framework of their specialty field.

- 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

The Specific Aims

The graduates of the oral and maxillofacial radiology specialty course should have acquired following skills:

- Complete mastery of the principles of the physics of imaging, radiobiology, radiation protection, and intraoral and extraoral imaging in the oral and maxillofacial region
- Complete mastery of the normal radiologic features and changes in disease conditions and interpretation of different radiographic images of the oral and maxillofacial region
- Active participation in educational and research affairs of the field

Duration of the course

The specialty course of oral and maxillofacial pathology lasts 3 years (6 semesters) and is a full-time course based on the guidelines of the Council for General and Specialty Dental Courses.

Admission Requirements

- B.D.S./D.M.D./D.D.S or equivalent certificates for the applicants of Specialty
- Certificate of Internship or Certificate of Practice

Language Requirements:

- Language requirements: Evidence of English Proficiency on the TOEFL or IELTS tests. The minimum score for TOEFL PBT, TOEFL iBT and IELTS is 533, 72 and 5.5 respectively.
- Applicants from Persian (Farsi) Speaking countries (They shall both speak and write in Persian) who have applied for graduate Degree-based programs may be exempted, based on the decision of the department, from submitting any certificates regarding their English Language Proficiency. Nevertheless, they are required to hand in their English language certificate which meets SUMS' minimal language proficiency requirements, within one year from commencing their studies at SUMS.

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:

- Perform imaging procedures in oral and maxillofacial field
- Interpret dental and medical images in the field of face and related structures
- Manage an oral and maxillofacial radiology service
- Research in related fields
- Instruct in oral and maxillofacial field

Student Assessment (Methods and Types)

- Formative
- Summative
- Comprehensive exam

Table of the Course

Table 1. The general basic sciences courses in Oral and Maxillofacial Radiology M.Sc.

Code of the Course	Title of the Course	Units and the Course Types			Hours			Total Units
		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	-	-	51	0.5
6	Medical laws and Professional ethics*	-	-	1	-	-	51	1
7	Infection Control and Patient Safety*	-	-	1	-	-	51	1
8	Clinical Management Authority	-	-	1	-	-	51	1
Total		-	-	9.5	-	-	510	9.5

* These courses are optional and the post-graduate students should select at least 1 unit.

Table 2. The specific basic sciences courses in Oral and Maxillofacial Radiology M.Sc.

Code of the Course	Title of the Course	Units and the Course Types			Hours			Total Units
		Theoretical	Practical	Workshop	Theoretical	Practical	workshop	
9	Head and Neck Anatomy	-	1	-	-	34	-	1
Total		-	1	-	-	34	-	1

Table 3. The faculty-presented related sciences courses in Oral and Maxillofacial Radiology M.Sc.

Code of the Course	Title of the Course	Units and the Course Types			Hours			Total Units
		Theoretical	Practical	Workshop	Theoretical	Practical	workshop	
10	Osteology	-	1	-	-	34	-	1
11	Oral and Maxillofacial Pathology	-	2	-	-	68	-	2
12	Principles of Dental Implants	-	1	-	-	34	-	1
13	Oral and Maxillofacial Diseases	-	2	-	-	68	-	1
Total		-	6	-	-	204	-	6

Table 4. The hospital-presented related sciences courses in Oral and Maxillofacial Radiology M.Sc.

Code of the Course	Title of the Course	Units and the Course Types			Hours			Total Units	
		Theoretical	Practical	Workshop	Theoretical	Practical	workshop		
14	Diseases of ear nose and throat	-	2	-	-	68	-	2	
15	Head and neck imaging (1)	-	3	-	-	102	-	3	
16	Head and neck imaging (2)	-	3	-	-	102	-	3	15
17	Head and neck imaging (3)	-	3	-	-	102	-	3	16
18	Oral and Maxillofacial Surgeries	-	2			68	-	2	
Total		-	13	-	-	442	-	13	-

Table 5. The core courses in Oral and Maxillofacial Radiology M.Sc.

Code of the Course	Title of the Course	Units and the Course Types			Hours			Total Units	Prerequisite
		Theoretical	Practical	Workshop	Theoretical	Practical	workshop		
19	Applied Anatomy	1	-	-	17	-	-	1	
20	Case Presentation (1)	-	2	-	-	68	-	2	
21	Case Presentation (2)	-	2	-	-	68	-	2	20
22	Case Presentation (3)	-	2	-	-	68	-	2	21
23	Case Presentation (4)	-	2	-	-	68	-	2	22
24	Case Presentation (5)	-	2	-	-	68	-	2	23
25	The Principles of Special Imaging Techniques (CT, MRI, Ultrasound, MRI)	1	-	-	17	-	-	1	
26	Literature Review (1)	1	-	-	17	-	-	1	
27	Literature Review (2)	1	-	-	17	-	-	1	26
28	Literature Review (3)	1	-	-	17	-	-	1	27
29	Literature Review (4)	1	-	-	17	-	-	1	28
30	Literature Review (5)	1	-	-	17	-	-	1	29

Table 5. The core courses in Oral and Maxillofacial Radiology M.Sc. (Continued)

Code of the Course	Title of the Course	Units and the Course Types			Hours			Total Units	Prerequisite
		Theoretical	Practical	Workshop	Theoretical	Practical	workshop		
31	Literature Review (6)	1	-	-	17	-	-	1	30
32	Thesis (1)	-	-	2	-	-	102	2	
33	Thesis (2)	-	-	2	-	-	102	2	31
34	Thesis (3)	-	2	-	-	68	-	2	32
35	Thesis (4)	-	-	2	-	-	102	2	33
36	Thesis (5)	-	-	2	-	-	102	2	34
37	Interpretation of Lesions (1)	4	-	-	68	-	-	4	35
38	Interpretation of Lesions (2)	4	-	-	68	-	-	4	
39	Interpretation of Lesions (3)	4	-	-	68	-	-	4	
40	Interpretation of Lesions (4)	4	-	-	68	-	-	4	
41	Interpretation of Lesions (5)	4	-	-	68	-	-	4	
42	Interpretation of Lesions (6)	4	-	-	68	-	-	4	

Table 5. The core courses in Oral and Maxillofacial Radiology M.Sc. (Continued)

Code of the Course	Title of the Course	Units and the Course Types			Hours			Total Units	Prerequisite
		Theoretical	Practical	Workshop	Theoretical	Practical	workshop		
43	Interpretation of Lesions (1)	-	2	-	-	68	-	2	
44	Interpretation of Lesions (2)	-	2	-	-	68	-	2	
45	Interpretation of Lesions (3)	-	2	-	-	68	-	2	
46	Interpretation of Lesions (4)	-	2	-	-	68	-	2	
47	Interpretation of Lesions (5)	-	2	-	-	68	-	2	
48	Interpretation of Lesions (6)	-	2	-	-	68	-	2	
49	Radiobiology and Radiation Protection	-	-	-	34	-	-	2	
50	Radiobiology and Radiation Protection	1	-	-	17	-	-	1	
51	Intraoral Radiography (1)	-	1	-	-	34	-	1	
52	Intraoral Radiography (2)	-	1	-	-	34	-	1	51
53	Intraoral Radiography (3)	-	1	-	-	34	-	-	52
54	Extraoral	1	-	-	17	-	-	1	

Table 5. The core courses in Oral and Maxillofacial Radiology M.Sc. (Continued)

Code of the Course	Title of the Course	Units and the Course Types			Hours			Total Units	Prerequisite
		Theoretical	Practical	Workshop	Theoretical	Practical	workshop		
55	Extraoral Radiography (1)	-	1	-	-	34	-	1	
56	Extraoral Radiography (2)	-	1	-	-	34	-	1	55
57	Extraoral Radiography (3)	-	1	-	-	34	-	1	56
58	Extraoral Radiography (4)	-	1	-	-	34	-	1	57
59	Extraoral Radiography (5)	-	2	-	-	68	-	2	58
60	Intra-department Seminar (1)	-	-	1	-	-	51	1	
61	Intra-department Seminar (2)	-	-	1	-	-	51	1	60
62	Intra-department Seminar (3)	-	-	1	-	-	51	1	61
63	Intra-department Seminar (4)	-	-	1	-	-	51	1	62
64	Intra-department Seminar (5)	-	-	1	-	-	51	1	63
65	Physical Principles of Imaging	3	-	-	51	-	-	3	
66	Participation in Training Students (1)	-	2	-	-	-	68	2	

Table 5. The core courses in Oral and Maxillofacial Radiology M.Sc. (Continued)

Code of the Course	Title of the Course	Units and the Course Types			Hours			Total Units	Prerequisite
		Theoretical	Practical	Workshop	Theoretical	Practical	workshop		
67	Participation in Training Students (2)	-	2	-	-	-	68	2	66
68	Participation in Training Students (3)	-	2	-	-	-	68	2	67
69	Participation in Training Students (4)	-	2	-	-	-	68	2	68
Total		39	41	13	663	1394	663	93	-

Important Notice:

The above features the curriculum of the Oral and Maxillofacial Radiology Program designed and approved by the Iranian Ministry of Health and Medical Education. Given the fact that Shiraz University of Medical Sciences is constantly improving and updating itself to meet the international academic standards and the state of the art, and based on the availability of facilities, devices, ward, laboratories, etc. at SUMS, all the SUMS curricula are approximately 20% subject to change.