In the Name of God

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

Anesthesia

Degree: Bachelor of Science (BSc)

Total Course Credits

• General: 22

• Basic, Specialized and Internship: 92

• Field Internship: 16

Program Description

Bachelor of Science in anesthesia is one of the disciplines in medical sciences in which the students train in principles and methods of anesthesia, the related equipment and medication. The students also learn about taking care of patients under local and general anesthesia pre, peri, and postoperatively. Furthermore, acquiring the methods and principles of acute pain management services emergencies is within the curriculum. The graduates can work in teaching hospitals under the supervision of an anesthesiologist. The mission of the program is to train graduates who can take care of patients (under the supervision of an anesthetist) in post anesthesia care units (PACU), provide acute pain management services (APMS) and help in cardiopulmonary and cerebral resuscitation (CPCR). The vision of the program is to provide active learning, innovation, acquisition of new clinical knowledge and skills, and optimum patient care so that the program will be the best and with the highest standards in the region (Middle East).

Admission Requirements

Applicants must pass the National University Entrance Exam held by Testing and Assessment Organization

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:

- Studying the patients' records, their history of disease and informing the anesthesiologist
- Performing antiseptic measures, sterilization, cleansing and maintenance of the required instruments
- Taking care of, accompanying, and transferring the patients to the operation room
- Monitoring the anesthesia equipment and preparing the required tools and medication
- Cooperating with the doctor in monitoring the patients and recording the patients' vital signs
- Cooperating with the doctor in placing the patient in proper position for operation

- Cooperating with the anesthetist in anesthesia induction, local anesthesia and other therapeutic measures
- Cooperating with the anesthetist in bringing back patients to consciousness
- Monitoring the patients in PACU

Educational Strategies, Methods and Techniques*



Student Assessment (Methods and Types)

- Formative (quizzes and midterm Exam)
- Summative (Final Exam)
- Oral and written exams, observation, clinical competence assessments
- (OSCE, OSLE, OSFE, DOPS, 360 degree evaluation competency)
- Portfolio assessment: Logbook, test results, reports, articles, certificates, promotions, etc.

Ethical Considerations*



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

Tables of the Courses

Table 1. General Courses

Code	Title of the	Credits			Teach	Prerequisit		
of	Course	Theoretica	Practica	Tota	Theoretica	Practica	Tota	e or
the Cours		1	l	l	l	l	l	Concurrent Courses
e								Courses
011	Islamic	2	-	2	34	-	34	
	Thought 1							
012	Islamic Thought 2	2	-	2	34	-	34	
022	Islamic Ethics	2	-	2	34	-	34	
031	Islamic Revolution	2	-	2	34	-	34	
041	History of Islamic Culture and Civilization	2	-	2	34	-	34	
051	Thematic Commentar y of the Quran	2	-	2	34	-	34	
	Persian Literature	3	-	3	51	-	51	
	General English	3	-	3	51	-	51	
	Physical Training 1		1	1	-	34	34	
	Physical Training 2		1	1	-	34	34	
	Family Planning	2	-	2	34		34	
	Total	22						

Table 2. Basic, Specialized and Internship Courses

Code of			Credits Teaching Hours					
the Course	Course		Theoretical	practical	internship	Total	or Concurrent Courses	
01	Anatomy 1	2	26	17		43	-	
02	Anatomy 2	2	26	17		43	01	
03	Physiology 1	2	34	-		34	-	
04	Physiology 2	2	34	-	-	34	03	
05	Physics and its Laws in Anesthesia	2	34	-	-	34	-	
06	Microbiology and Sterilization	2	26	17	-	43	-	
07	Biochemistry	1	17	-	-	17	-	
08	Immunology	1	17	-	-	17	-	
09	Psychology	2	34	-	-	34	-	
010	Medical Terminology	2	34	-	-	34	-	
11	Computer Application	3	34	34	-	68	-	
12	Biostatistics and Research Methodology	3	43	17	-	60	-	
13	Clinical Examination and Symptomatology	2	26	17	-	43	02, 04	
14	Basic Principles of Pharmacology	3	51	-	-	51	03	
15	Principles of First Aids	2	26	17	-	43	02, 04	
16	Principles of Nursing and Practice in Operation Room	2	26	17	-	43	-	
17	Physiopathology	4	68	-	-	68	02, 04, 13, 14	
18	Hematology and Blood Transfusion	2	34	-	-	34	04	
19	Medical Emergencies	2	26	17	-	43	15, 17	
20	English for the Students of Anesthesia	3	51	-	-	51	10, General English	
21	Management in Anesthesia	1	17	-	-	17	-	
22	Principles of Anesthesia	3	51	-	-	51	01, 03, 05, 16	

23	*Methods of	4	68	-	-	68	22, 34
	Anesthesia 1						
24	*Methods of	4	68	-	-	68	23, 35
	Anesthesia 2						
25	*Methods of	4	68	-	-	68	24, 36
	Anesthesia 3						
26	Post-Anesthesia	2	34	-	-	34	25
	Care						
27	Principles of	3	51	-	-	51	17
	Intensive Care						
28	Principles and	2	34	-	-	34	22
	Methods of Pain						
	Management						
29	Familiarity with	3	51	-	-	51	17
	Internal Diseases						
	and Surgery						
30	Specialized	3	51	-	-	51	14
	Pharmacology						
31	Professional Ethics	1	17	_	_	17	-
	in Anesthesia						
32	Internship in	2	-	-	102	102	06, 16
	Nursing						·
33	Internship 1	4	-	-	204	204	22
34	Internship 2	4	-	-	204	204	23, 33
35	Internship 3	4	-	-	204	204	24, 34
36	Internship 4	4	-	-	204	204	25, 35
Total	•	92					
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^{*}Due to the necessity of clinical education in the course, "Methods of Anesthesia", the students should pass this course together with Internship 1, 2, 3 and 4 under the supervision of faculty members. At the end of each Internship course, there are oral and practical exams.

Table 3. Internship Courses

Code of the Course	Name of the Course	Credits	Teaching Hours
37	*Field Internship 1	8	408
38	**Field Internship 2	8	408
	Total	16	816

*Field Internship in Anesthesia

204 hours

Field Internship in PACU

102 hours

Field Internship in ICU

102 hours

**Field Internship in Anesthesia

204 hours

Field Internship in PACU

102 hours

Field Internship in ICU

102 hours

Jamshid Hajati PhD Secretariat of the Council for Education of Health and Basic Medical Sciences (Undergraduate and Postgraguate) Seyed Mansour Razavi MD Secretary of the Supreme Council for Medical Sciences Planning

, Mazavi

Bagher Larijani MD Deputy for Education

Ministry of Mealth and Medical Education