

In the Name of GOD

Master of Anesthesia Education (Technology)

Designed by department of Anesthesia and critical care medicine,

Ministry of foreign affairs, Shahid Beheshti University of Medical Sciences

M.Sc. in Anesthesia Education (Anesthesia Technology) is a 2-year programme designed to provide in depth knowledge & impart skills for working as an assistant to the consultant Anesthesiologist as well as teaching and researching in the same field. The programme is designed as a full-time programme with responsibilities in managing the patients. The students must take part in classes, short topic discussions, case discussions and clinical wards.

Department of Anesthesiology of Shahid Beheshti University of Medical sciences provided the master course during which international students become familiar with the most updated anesthesiology principles, techniques, instruments, and drugs. We also educate students to become confident educators, leaders and researcher in the field of anesthesia.

Goals:

- Understanding the safe anesthesia techniques for various elective and emergency procedures in and outside the operation theatre
- Obtaining knowledge about the proper functioning of various anesthetic equipment's such as the work station, anesthesia monitors , ventilators, syringe pumps etc.
- Monitoring the patient, managing airway, preparing and administering anesthetic drugs & advanced Anaesthesia techniques under supervision of Anesthesiologists
- Performing advanced skills of cardiopulmonary resuscitation
- Learning to become an educator
- Training a professional researcher
- Learning stress management strategies

Code	Course title	credit		
		Theoretical (hour)	Practical (hour)	total
01	Principles of Anesthesia	2 (34)	0	2
02	Principles of Anesthesia clerkship	0	2 (102)	2
03	Pharmacology of anesthetic drugs	2 (34)	0	2
04	Research Methodology	1.5 (26)	0.5 (17)	2
05	Best Evidence Medical Education	1 (17)	0	1
06	Patient presentation	1 (17)	0	1
07	Medical information Systems	0.5 (9)	0.5 (17)	1
08	Physiology of systems	2 (34)	0	2
09	Teaching-learning methods	1 (17)	0	1
10	Anesthesia techniques	2 (34)	0	2
11	Anesthesia techniques clerkship	0	2 (102)	2
12	Course planning	0.5 (9)	0.5 (17)	1
13	Patient safety and advanced monitoring	2 (34)	0	2
14	Principles of critical care and advanced Cardiopulmonary resuscitation	2 (34)	0	2
15	Principles of critical care and advanced Cardiopulmonary resuscitation clerkship	0	2 (102)	2

16	Blood product transfusion	1 (17)	0	1
17	Assessment methods	1 (17)	0	1
18	Pain management	1 (17)	0	1
19	Anesthesia for special surgeries	2 (34)	0	2
20	Anesthesia for special surgeries clerkship	0	2 (102)	2
21	Thesis	0	4	4
		22.5	13.5	36

Expected competencies at the end of the course:

Expected Competencies	Description	Related course codes
Professionalism	Effective and professional communication with other students, teachers, surgeons, patients and their families	02- 05- 06- 09- 11- 13- 15- 20
Education	Designing educational courses Teaching via newest methods available	All courses
Research	Becoming familiar with research methodology Designing a standard research protocol Preparing proposal Writing manuscript	04- 21
Clinical care	Assisting anesthesiologist in a safe and professional manner Airway management Drug preparation	01- 02- 03- 06- 08- 10- 11- 13- 14- 15- 16- 18- 19- 20

Student's eligibilities to apply for this course:

- Minimum age of 21
- Bachelor's degree in anesthesia
- Score >60% in English exam

The eligible students who apply for the master course should pass the interview before final registration.

Department's requirements:

- Anesthesiology professors who can teach in English
- Medical education professionals
- Health informatics teachers
- Classes
- Skill lab
- Clinical wards including operating rooms, intensive care units, surgical wards and recovery room