



Course Description Guide in Bachelor of Surgical Technologist (Continuous)

First Semester

No	Title	No of credit	Course hours		Prepositions
			Theoretical	Practical	
1	Anatomy (1)	2	1.5	0.5	
2	Physiology (1)	2	2		
3	Biochemistry	1	1		
4	Principles of Clinical Practice	1	0.5	0.5	
5	Orientation to surgical technology	1	1		
6	Orientation to operating room protocols and equipment	2	2		
7	Basic Principles of Disinfection and Sterilization	1	1		
8	Principles and techniques of circulator and scrub nurse	3	2	1	
9	Persian literature	3	3		
10	Pre-sessional English language course	2	2		
11	Theoretical Foundations of Islamic Courses (1)	2	2		
12	Life skills	1	0.5	0.5	
Total		21 credits			



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Second Semester

No	Title	No of credit	Course hours		Prepositions
			Theoretical	Practical	
1	Anatomy (2)	2	1.5	0.5	Anatomy (1)
2	Physiology (2)	2	2		Physiology (1)
3	bacteriology and parasitology	2	1.5	0.5	
4	Clinical skills internship	2		2	
5	Operating Room Etiquette (practicum)	1		1	Orientation to surgical technology and Orientation to operating room protocols and equipment
6	General psychology	2	2		
7	Operating room hygiene	2	2		
8	general English	3	3		
9	Islamic ethics	2	2		
10	Basic principles of pharmacology	2	2		bacteriology and parasitology, biochemistry, and physiology 1 & 2
Total			19 credits		



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Third Semester

No	Title	No of credit	Course hours		Prepositions
			Theoretical	Practical	
1	Medical terminology	2	1.5	0.5	Orientation to surgical technology
2	Surgical technology in Gastro-intestinal (GI) and endocrine surgery	3	3		Anatomy (2), Physiology (2), Pathology and histology
3	Surgical technology in Gynecology and Urology	2	2		Anatomy (2), Physiology (1), Pathology and histology
4	Pathology and histology	2	1.5	0.5	Physiology (2)
5	Medical Physics, Electricity and Robotic and Their Application in Operating Rooms	2	2		
6	Basics and Operation of Circular	2		2	
7	Basics and Operation of Scrub	2		2	
8	Immunology	1	0.5	0.5	Physiology (2)
9	Academic English	2	2		Medical terminology and basic English
10	Islamic History and Civilization in Iran	2	2		
Total		20 credits			



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Forth Semester

No	Title	No of credit	Course hours		Prepositions
			Theoretical	Practical	
1	Anesthesia Care	2	1.5	0.5	Orientation to surgical technology
2	Introduction to medical and surgical diseases	3	3		Anatomy (2), Physiology (2)
3	Principles of Intensive care and cardio pulmonary resuscitation	2	1.5	0.5	Anesthesia Care
4	Hematology and Blood Transfusion	2	2		Physiology (2)
5	Surgical technology in Neurosurgery	2	2		Anatomy (2), Physiology (1), Pathology and histology
6	Surgical technology in Orthopedic	2	2		Anatomy (1), Pathology and histology
7	Central Sterilization Internship	1		1	
8	Principles of Surgery Technician (practicum) (1)	2		2	Physiology (2)
9	Mental Health in Operating Rooms	1	1		General psychology
10	Theoretical Foundations of Islamic Courses (2)	2	2		Theoretical Foundations of Islamic Courses (1)
Total		20 credits			

**Course Description Guide in Bachelor of Surgical Technologist (Continuous)****Fifths Semester**

No	Title	No of credit	Course hours		Prepositions
			Theoretical	Practical	
1	Research method in operating room	2	1.5	0.5	
2	Principles of Recovery Care	1	1		Anesthesia Care, Principles of Intensive care and cardio pulmonary resuscitation
3	Information technology in operating room	1	0.5	0.5	
4	Biostatistics	1	1		
5	Surgical technology in dermatology, Burns, and skin transplant surgery	2	2		Anatomy (2), Physiology (2), Pathology and histology
6	Surgical technology in pediatric surgery	1	1		Anatomy (2), Physiology (1), Pathology and histology
7	Operating room emergency, trauma, and crisis management	1		1	Anatomy (2), Physiology (2), Pathology and histology
8	Principles of Surgery Technician (practicum) (2)	2		2	
9	Cardiopulmonary resuscitation (practicum)	1		1	
10	Nutrition in surgery	1	1		Biochemistry
11	Physical education (1)	1		1	
12	Iran Islamic Revolution	2	2		
13	Islamic History and Civilization	2	2		
14	Operating Room Management	2	2		
15	Research method in operating room	2	1.5	0.5	
Total		20 credits			

**Course Description Guide in Bachelor of Surgical Technologist (Continuous)****Sixth Semester**

No	Title	No of credit	Course hours		Prepositions
			Theoretical	Practical	
1	Surgical technology in cardio-Thoracic and vessels surgery	3	3		Anatomy (1), Physiology (1), Pathology and histology
2	Surgical technology in eye, ENT & face and mandibular surgery	2	2		Anatomy (1), Physiology (1), Pathology and histology
3	Medical emergencies	1	1		
4	Orientation to surgical radiography	1	1		Anatomy 1 & 2
5	Internal Medicine and Nerve and ophthalmic Surgery	1	1		Anatomy (2), Physiology (1), Pathology and histology
6	Emergencies in operating room	1		1	Anatomy (2), Physiology (1), Pathology and histology
7	Principles of Recovery Care (Practicum)	2		2	Anatomy (2), Physiology (2), Pathology and histology
8	Management in Operating Room (practicum)	2		2	
9	Physical education (2)			1	Physical education (1)
10	Population and family planning	2	2		
11	Surgical ethics	1	1		
12	Thematic Commentary of the Quran	2	2		
Total		19 credits			



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Seventh Semester

No	Title	No of credit	Course hours		Prepositions
			Theoretical	Practical	
1	Surgical technology in Orthopedic (practicum)	2		2	
2	Internal Medicine and Nerve and Ophthalmic Surgery (practicum)	1		1	
3	Surgical technology in face and mandibular surgery (practicum)	1		1	
4	Surgical technology in gynecology (practicum)	1		1	
5	Surgical technology in ENT surgery (practicum)	1		1	
6	Surgical technology in pediatric surgery (practicum)	1		1	
7	Surgical technology in trauma (practicum)	1		1	
Total		8 credits			



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Eighth Semester

No	Title	No of credit	Course hours		Prepositions
			Theoretical	Practical	
1	Surgical technology in neurology (practicum)	2		2	
2	Surgical technology in cardiac and vessels surgery (practicum)	1		1	
3	Surgical technology in gastrointestinal and endocrine surgery (practicum)	2		2	
4	Surgical technology in thoracic surgery (practicum)	1		1	
5	Surgical technology in Reconstructive plastic surgery (practicum)	1		1	
6	Surgical technology in orology surgery (practicum)	1		1	
Total		8 credits			