Faculty of Nursing, Midwifery-Operating Room Group Course Plans

Teaching subject: Getting to know the tools and equipment of the operating room Teaching duration: 34 h Prerequisites: none Venue: Faculty of Nursing and Midwifery Target group: students of the 1st semester of operating room, degree: bachelor's degree Number of units: 2 units Unit type: Theoretical Group of teachers: Mahbobeh Dostkami

General purpose: Familiarity with the types of specialized and advanced operating room devices and

equipment that are used in specialized and super-specialized surgeries and how to maintain and use them.

Specific goals:

After the end of the course, the student should be able to:

- 1- Classify surgical tools and distinguish their types from each other.
- 2- Classify and name surgical equipment including packs, surgical dressings, catheters and drains.
- 3- Name the types of sewing threads and needles according to their type and place of use.
- 4- Describe the structure and application of the devices used in different stitches and staplers.
- 5- Classify and explain different types of needles according to their use and structure.
- 6- Describe the auxiliary equipment used in the operating room (cautery, suction, etc.) in terms of how to prepare and use them.

7- Describe the special equipment used in various surgeries (such as endoscopes, etc.). Content and order of presentation:

(Titles and outlines of the content that must be taught in order to achieve the goals of the course. Includes: theoretical content, practical skills, etc.)

teaching	Titles	عناوين	date	meeting
method				
PowerPoint	Mahbobeh	Describe the history of the	Monday	1
together with	Dostkami	use of surgical tools by	1.5-3.5	
the movie		humans. Describe the main		
		composition and structure		
		of surgical instruments.		
		Name the factors affecting		
		the resistance and		
		hardening of metal alloys		
		used in the composition of		

				,
		surgical instruments.		
		Compare the types of		
		coating in surgical		
		instruments with each		
		other.		
		Name the best structural		
		combination in making		
		microsurgery tools Name		
		the classification of surgical		
		instruments based on		
		function. Name the basic		
		components of surgical		
		instruments. Explain the		
		control and inspection of		
		surgical instruments.		
PowerPoint	Mahbobeh	Classify surgical tools	Monday	2
together with	Dostkami	based on their function	1.5-3.5	
the movie		and use. Classify and		
		separate winners and		
		separators based on		
		shape and application.		
		Explain the use of types		
		of scalpel in surgery.		
		Explain the use of types		
		of cort in surgery. List the		
		use of knives in surgery.		
		Describe the use of		
		scissors in surgery		

Course Plans

PowerPoint	Mahbobeh	Classify surgical tools	Monday	3
together with	Dostkami	based on their function and	1.5-3.5	
the movie		use. Explain the use of		
		types of clamps in surgery.		
PowerPoint	Mahbobeh	Classify surgical tools	Monday	4
together with	Dostkami	based on their function	1.5-3.5	
the movie		and use. Explain the use		
		of retainers, dilators and		
		probes in surgery		
PowerPoint	Mahbobeh	Classify surgical tools	Monday	5
together with	Dostkami	based on their function and	1.5-3.5	
the movie		use. Explain the use of		
		openers and retractors in		
		surgery Explain the use of		
		drill or perforator		
PowerPoint	Mahbobeh		Monday	6
together with	Dostkami	Continue	1.5-3.5	
the movie		to explain the use of		
		openers and retractors in		
		surgery		
PowerPoint	Mahbobeh	Describe the application and	Excellent	7
together with	Dostkami	types of automatic retractors	class	
the movie				
PowerPoint	Mahbobeh	Continue	Monday	8
together with	Dostkami	Describe the use of hooks,	1.5-3.5	
the movie		dilators, bogies, and speculums		
PowerPoint	Mahbobeh	Describe the cutting tool and its	Monday	9
together with	Dostkami	use Explain the types of stapler	1.5-3.5	
the movie		and their use Explain the types		

		of suction and the use of each Explain the use of dish and bix and gallipot and versiver, etc Explain the use of an eyepiece, a plyometer, a taper, and a screwdriver		
PowerPoint together with the movie	Mahbobeh Dostkami	Explain the use of hemoclip applier and types of clips based on size Describe the use of the male shunt needle and Elic and the Tommy syringe Describe the maintenance and care of equipment Describe how to place items on the operating table Describe how to move equipment during surgery Describe how to collect items from the operating table Explain the cleaning of equipment with ultrasonic waves Describe how to control and check surgical instruments Explain how to lubricate surgical instruments Explain how to package and sterilize items for reuse Explain how to clean and sterilize electrical appliances Describe how to repair surgical	Excellent class	10

Faculty of Nursing, Midwifery-Operating Room Group

Course Plans

PowerPoint	Mahbobeh	Define endoscope and	Monday	11
together with	Dostkami	endoscopy. Name the types	1.5-3.5	
the movie		of endoscopes. Distinguish		
		the types of endoscopes.		
		Name the tools related to		
		endoscopy of different body		
		systems. Define		
		laparoscopy State the		
		advantages and		
		disadvantages of		
		laparoscopy.		
PowerPoint	Mahbobeh	List the equipment and	Excellent	12
together with	Dostkami	tools used in laparoscopy.	class	
the movie		Explain hemostasis		
		methods in laparoscopy.		
		Explain the use of the		
		harmonic blade Explain		
		endoscopy in the urinary		
		system and its devices and		
		equipment. Explain		
		colposcope,		
		esophagoscope,		
		gastroscope, angioscope,		
		etc Describe the risks of		
		endoscopy, cases of		
		absolute prohibition of		
		laparoscopy and cases of		

	relative prohibition of		
	-		
Mahbobeh		Monday	13
		1.5-3.5	10
	a suction device		
	Principles of working with		
	pulse lavage explain		
	Basics of working with a		
	vital signs monitor explain		
	Explain the principles of		
	working with sialytic lights		
	and head light Principles		
	of working with Pulse		
	Oximeter explain		
	Principles of working with		
	ophthalmoscope and C-		
	Arm and explain the		
	anesthesia machine and		
	defibrillator and the phyco		
	and vitrectomy machine		
Mahbobeh	Principles of working with	Excellent	14
Dostkami	Stimulator and Warmer	class	
	explain State the common		
	beds Examine and		
		Dostkamiworking with Ligasure device Explain the principles of working with a suction devicePrinciples of working with a suction devicePrinciples of working with pulse lavage explain Basics of working with a vital signs monitor explain Explain the principles of working with sialytic lights and head light Principles of working with Pulse Oximeter explain Principles of working with ophthalmoscope and C- Arm and explain the anesthesia machine and defibrillator and the phyco and vitrectomy machineMahbobeh DostkamiPrinciples of working with Stimulator and Warmer explain State the common features in all operation	MahbobehExplain the principles of working with Ligasure device Explain the principles of working with a suction deviceMonday 1.5-3.5Principles of working with a suction devicePrinciples of working with pulse lavage explainBasics of working with a vital signs monitor explain Explain the principles of working with sialytic lights and head light Principles of working with PulseOximeter explainPrinciples of working with and head light Principles of working with PulseOximeter explainPrinciples of working with and head light Principles of working with PulseOximeter explainPrinciples of working with ophthalmoscope and C- Arm and explain the anesthesia machine and defibrillator and the phyco and vitrectomy machineMahbobeh DostkamiPrinciples of working with classMahbobeh ifeatures in all operationExcellent class

		explain the components		
		of the bed Explain the use		
		of the surgical equipment		
		table and trolley, and the		
		surgical table and stool in		
		the operating room		
PowerPoint	Mahbobeh	Explain the use of sink scrub	Monday	15
together with	Dostkami	Describe the types of gases and	1.5-3.5	
the movie		bandages available in the		
		operating room and their use		
		Explain what mesh is and its		
		use Explain the use of lasers		
		Explain how to pack the roll		
		and envelope of the pack		
		Explain the types of dressings		
		Explain the use and difference		
		of different types of catheters		
		and drains used in the operating		
		room		
PowerPoint	Mahbobeh	continue Explain the use and	Monday	16
together with	Dostkami	difference of different types of	1.5-3.5	
the movie		catheters and drains used in the		
		operating room Explain the		
		types of threads and their		
		comparison and the uses of each		
		Explain different suturing		
		methods		

Duties and assignments of the student:

1. Attending class on time.

2. Active participation in class discussions.

3. Presentation of assigned assignments with the opinion of the relevant professor of the course up to two marks

Student evaluation method:

Active participation in class discussions 10%

Doing and presenting assignments (articles, conferences, etc.) 10%

midterm exam 10%

Final exam 70%

Study sources:

- 1. Surgical Technology for the surgical technologist: A positive care approach/ Association of surgical technologists/ Cengage Learning; 4 edition/ ISBN: 9781111037567
- 2. Berry and Kohn's Operating Room Technique/ Nancymarie Phillips (Author) Mosby; 12 edition/ ISBN: 9780323073585
- 3. Alexander's surgical procedures/ Jane C. Rothrock PhD RN CNOR FAAN (Author), Sherri Alexander CST (Author) / Mosby; 1 edition/ ISBN: 9780323075558
- 4. Surgical Instrumentation: An Interactive Approach/ Renee Nemitz CST RN AAS (Author)/ Saunders; 2 edition/ ISBN: 978- 1455707195.
- 5. Differentiating Surgical Equipment and Supplies/ Collen Rutherford/ F.A.Davis Company; 1 SPI edition/ ISBN: 978-0803615724.
- 6. Nancy Marie, Principles of working in the operating room (the first volume of the techniques of working in the operating room of Cohen and Berry) translated by Sadati Leila, Ehsan's collection and others, Jamia Nagar Publications, 2013
 - 7. Sadati-Lila, Golchini-Ehsan, Getting to know the tools and equipment of the operating room (2nd edition) Jamia Nagar Publications. Tehran. 2012.

8. Fatima Qardashi, Roya Akbarzadeh. A comprehensive guide to surgical instruments and

sets. Jamia Nagar Publications. 1390.