

TOROS ÜNİVERSİTESİ

Vocational School
Medical Imaging Techniques

Course Information

STERILIZATION PRINCIPLES AND METHODS					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
TGT229	Fall	2	0	2	2

Prerequisites and co-requisites	None
Language of instruction	Turkish
Type	Elective
Level of Course	Associate
Lecturer	Lec. Harika TOPAL ONAL
Mode of Delivery	Face to Face
Suggested Subject	None
Professional practise (internship)	None
Objectives of the Course	The basic concepts, rules and principles related to sterilization and disinfection should be based on the aseptic technique of cleanliness, disinfection / sterilization, infectious disease and / or immune system deprivation of the equipment and materials to be used in the operating room, respecting human rights and dignity, taking personal protection measures, The prevention of spreading.
Contents of the Course	Definition of contamination, decontamination and cleanliness, asepsis, antisepsis and prevention, asepsis types, Definition of disinfectant and disinfectant, types and usage areas according to effect levels of disinfectants, properties to be found in an ideal disinfectant, Disinfectants, disinfectants and antiseptics used in hospitals, hand hygiene, Sterilization techniques, sterilization methods, basic principles in sterilization, characteristics of the sterilization unit, rules to be followed in order to be effective in disinfection and sterilization, precautions to be taken in a patient who is infected and / or immune system deprived, materials washing and preparation units , Safety testing in sterilization, and documentation, coding and documentation of sets, preparation and sterilization of surgical (metal) material, sterilization of plastic material, storage and preservation of sterile material.

Learning Outcomes of Course

#	Learning Outcomes
1	Explains the basic concepts, rules and principles of sterilization and disinfection.
2	Provides cleaning, disinfection / sterilization of equipment and materials to be used in the operating room according to aseptic technique. .
3	Respects human rights and dignity in infectious and / or immune-compromised patients
4	It applies personal protective measures to prevent the spread or spread of infection.
5	Know sterilization and methods, apply and control.
6	Antisepsis and disinfection knows, applies and controls.

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Definition of contamination, decontamination and cleaning, Asepsi-antisepsis and prevention	Lecture, Discussion Question-Answer Practice-Exercise
2	Asepsi types, Medical asepsis and medical asepsis principles Surgical asepsis, surgical asepsis principles	Lecture, Discussion Question-Answer Practice-Exercise
3	Sterilization and prevention, differences between disinfection	Lecture, Discussion Question-Answer

		Practice-Exercise
4	Disinfectants and disinfectants, Disinfectants according to their effect types and their usage areas	Lecture, Discussion Question-Answer Practice-Exercise
5	Features that need to be found in an ideal disinfectant Points to note when using disinfectant Disinfectants and antiseptics	Lecture, Discussion Question-Answer Practice-Exercise
6	Characteristics of the sterilization unit, basic principles in sterilization	Lecture, Discussion Question-Answer Practice-Exercise
7	Rules for disinfection and sterilization to be effective	Lecture, Discussion Question-Answer Practice-Exercise
8	Mid-Term	Questions and answers
9	Sterilization methods	Lecture, Discussion Question-Answer Practice-Exercise
10	Sterilization and Disinfection Applications	Lecture, Discussion Question-Answer Practice-Exercise
11	Sterilizers, Material washing and preparation units	Lecture, Discussion Question-Answer Practice-Exercise
12	Preparation and sterilization of surgical (metal) material	Lecture, Discussion Question-Answer Practice-Exercise
13	Sterilization of plastic materials	Lecture, Discussion Question-Answer Practice-Exercise
14	Safety tests in sterilization, and documentation	Lecture, Discussion Question-Answer Practice-Exercise
15	Storing and preserving sterile material	Lecture, Discussion Question-Answer Practice-Exercise
16	Final Exam	Questions and answers

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1			
2			
3			
4			
5			
6			

Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Explains the basic concepts, rules and principles of sterilization and disinfection.	1,2,3,4,5,6,10,11,12	1,2
2	Provides cleaning, disinfection / sterilization of equipment and materials to be used in the operating room according to aseptic technique. .	1,2,3,4,5,6,10,11,12	1,2
3	Respects human rights and dignity in infectious and / or immune-compromised patients	1,2,3,4,5,6,10,11,12	1,2
4	It applies personal protective measures to prevent the spread or spread of infection.	1,2,3,4,5,6,10,11,12	1,2
5	Know sterilization and methods, apply and control.	1,2,3,4,5,6,10,11,12	1,2

6	Antisepsis and disinfection knows, applies and controls.	1,2,3,4,5,6,10,11,12	1,2
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PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	2	28
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	2	28
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	1	1
8	Midterm Exam	1	1	1
9	Quiz	0	0	0
10	Homework	0	0	0
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	0	0	0
14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	1	1
16	Final Exam	1	1	1
				60