

Basics in Sterile Processing Technician

1. Department: Department of Microbiology
2. Title: Basics in Sterile Processing Technician
3. Sector: Healthcare and Allied Sciences
4. Year of implementation: 2024

Course Structure

Skill Level	Theory Hours	Practical Hours	Total Hours	Credits	No. of students in batch
4	15	30	40	02	30

Syllabus

Course Objectives: Students will be able to

1. Know the fundamental practices and procedures of aseptic technique.
2. Know the duties and requirements of the sterile processing technician in the healthcare setting.
3. To provide job oriented training to the students.

Theory syllabus**Contact Hrs: 15**

Credits (Total Credits 1)	SEMESTER-I SECMiT101 Basics in Sterile Processing Technician	No. of hours per unit/credits
UNIT - I	Role and Responsibilities	(10)
	A) Responsibilities and duties of sterile processing technicians. B) Government policies or Company policies for job role. C) Need of Sterile Processing Technician D) Document writing and their record management E) Activity Plan	
UNIT - II	Technical Knowledge	(05)
	A) Introduction to Sterile Processing B) Introduction to the concepts, skills, processes and standard requirements of sterile processing. C) Bacteriological Media componenets D) Different sterilization techniques.	

Course Outcomes: After completion of practical course, student should be able to-

1. Understand the fundamental practices and procedures of aseptic technique
2. Understand the duties and requirements of the sterile processing technician in the healthcare setting.
3. Competent to work as Sterile Processing Technician in Private and Government Hospitals.

Reference Books:

1. Nancy Chobin, *The Basics of Sterile Processing* (Sterile Processing University LLC, 7th Edition, 2017), 54.
2. Godkar P.B, [*Textbook of Medical Laboratory Technology \(Vol 1 & 2\)*](#)
3. Rutala, W.A, Stiegel M.M ; Sarubbi F.A, *Decontamination of laboratory microbiological waste by steam sterilization: Appl. Environ. Microbiology* (1982-06-01) 43(6)
4. Reichert, Marimargaret; Young, Jack H, Jones and Barlett learning, *Sterilization Technology for health care facility* (1997).

Practicals

Contact Hrs: 30

Credits (Total Credits 2)	SEMESTER-I SECMIT101 Basics in Sterile Processing Technician- Practicals	Contact hours (30)
	1. Good Laboratory Practices.	
	2. Policies and Procedures of Clinical Laboratory. a) Students Rights and Responsibilities. b) Blood- borne pathogen exposure policy	
	3. Identification of surgical instruments (Scalpel, scissors, forceps, clamps, needles and sutures, retractors, staplers and clips)	
	4. Validation of Autoclave	
	5. Validation of hot air oven	
	6. Preparation of bacteriological media-Nutrient agar	
	7. Aseptic laboratory techniques: Plating methods	
	8. High temperature sterilization	
	9. Demonstration of Low temperature sterilization	
	10. Use of laminar Air flow	

BOS Sub Committee:

Sr. No.	Name of Member	Designation	Address
1	Ms. M. M. Raut	Chairman	Y.C.I.S Satara
2	Ms. P.R. Jadhav	Member	Y.C.I.S Satara
3	Dr. Sheetal Yadav	Academic Expert	MLT Dept., Y.C.I.S, Satara
4	Mrs. Neha Ahire	Industrial Expert	Bel Air Hospital, Panchgani

Godkar

Advances in Sterile Processing Technician

1. Department: Department of Microbiology
2. Title: Advances in Sterile Processing Technician
3. Sector: Healthcare and Allied Sciences
4. Year of implementation:2024

Course Structure

Skill Level	Theory Hours	Practical Hours	Total Hours	Credits	No. of students in batch
4	15	30	45	02	30

Syllabus

Course Objectives:Students will be able to

1. Know the fundamental practices and procedures of aseptic technique.
2. Identify common surgical instruments.
3. To provide job oriented training to the students.

Theory Syllabus (Contact Hrs: 15, Credit:01)

Credits (Total Credits 1)	SEMESTER-I SECMiT201 Advances in Sterile Processing Technician	No. of hours per unit/credits
UNIT - I	Terminology, processes and instruments used in SPD	(10)
	A) Principles of asepsis;personal hygiene and attire; managing the spread of bacteria. B) Identification of standard and complex surgical instruments. C) Cleaning, decontamination and disinfection practices for common instrumentation and equipment. D) Equipment and tools used for the decontamination process. E) Infectious waste and its types.	
UNIT - II	Technical Knowledge	(05)
	A) Infection Prevention, PPE kit –Safety and Risks, Case Carts-its types, materials, role. B) Sterilization, Packaging materials and Storage.	

Practical Syllabus (Contact Hrs:30, Credits: 01)**List of experiments 30hrs**

Credits (Total Credits 1)	SEMESTER-I SECMIT101 Advances in Sterile Processing Technician- Practicals	Contact hours (30)
	1.Sterilization of protective barriers (Gloves, masks, gowns, apron)	
	2.Demonstration of sterile instruments trays for surgeries.	
	3.Demonstration of disinfection and cleaning of surgical instruments.	
	4.Disposal of infectious waste.	
	5.Record keeping using spreadsheets.	
	6.Demonstration of Use of PPE kit	
	7.Use of Packaging material for sterilized instruments.	
	8. Storage of Sterilized instruments	
	9. Use of surgical solution in operating rooms.	
	10. Folding of linen, drapes/wrappers, towels etc.	

Course Outcomes:After completion of practical course, student should able to-

- 1) Understand the Medical terminology related to the sterile processing technicians.
- 2) Identify common surgical instruments.
- 3) Competent to work as Sterile Processing Technician in Private and Government Hospitals.

Reference Books: (Reference style: - Chicago style)

1. 1.Nancy Chobin, *The Basics of Sterile Processing* (Sterile Processing University LLC, 7th Edition,2017), 54.
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3	Dr.Sheetal Yadav	Academic Expert	MLT Dept., Y.C.I.S, Satara
4	Mrs.NehaAhire	Industrial Expert	Bel Air Hospital, Panchgani

