

**LESSON PLAN**  
**BASIC B.Sc. NUSING SEMESTER-I**

Subject code:2

Subject : Microbiology

Faculty : Mrs.D.Priya

UNIT	TOPIC	No of lectures	Lecture Serial No
I Introduction :	• Importance and relevance to nursing	1	1
	• Historical perspective	1	2
	• Concepts and terminology	2	4
	• Principles of microbiology	1	5
II General characteristics of Microbes	• Structure and classification of Microbes.	2	7
	• Morphological types	1	8
	• Size and form of bacteria		
	• Motility		
	• Colonization		
	• Growth and nutrition of microbes * Temperature * Moisture * Blood and body fluids	2	10
III Infection control	• Laboratory methods for Identification of Micro-organisms	2	12
	• Staining techniques, Gram staining, Acid fast staining, Hanging drop Preparation Culture; various medias	3	15
	• Infection: Sources, portals of entry and exit, transmission.	2	17
	• Asepsis		
IV Pathogenic organisms	• Disinfection; Types and methods	2	19
	• Sterilization ; Types and Methods	2	21
	• Chemotherapy and antibiotics		
	• Standard safety measures	1	22
	• Biomedical waste management	1	23
	• Role of Nurse	1	24
	• Hospital acquired infection	1	25
	• Hospital infection control programme * Protocols, collection of samples, preparation of report and status of rate of infection in the unit / hospital, nurse's accountability, continuing education etc.		
	• Micro-organisms	4	29
	o Cocci – gram positive and gram negative		



### **Bibliography:**

1. Alice Corrairie Smith, "Microbiology and pathology" 9<sup>th</sup> ed., Mosby Co.
2. Bernard D. Davis, Rentap Dalbecco Herman N. Eisen & Harold S. Ginsberg, "Microbiology", 3<sup>rd</sup> Ed, A Harper International edition.
3. Hug L. L Moffet, (1981) "Clinical microbiology", 2<sup>nd</sup> ed., J. B. Lippincott Co.
4. Macbie and Mecartney, (1980), "Medical microbiology" 13<sup>th</sup> ed., printed.
5. P. Ananthanarayan and C. K. Jayarm Panikar, "Textbook of microbiology", 8<sup>th</sup> ed., Orient Longman Company Ltd.
6. Chakravarti Text book of Microbiology.
7. T. Panjratan Text Book of Microbiology in nursing, New central Bool agency Culcutta 2002.

