



Code	Subject Title	Cr. Hrs	Semester
ZOOL-416	Lab. General Microbiology	1	VII
Year	Discipline		
4	Zoology		

Course Contents

Microscopic study of algae, fungi, protozoa and bacteria. Staining of bacteria; negative, simple, capsular, Gram, Spore, acid-fast and flagellar. Motility determination of bacteria. Culture Methods: Culture media preparation, pure culture techniques, bacterial population counts. Isolation of phage from sewage. Environmental influences and control of microbial growth; lethal effects of temperature and UV light, osmotic pressure and bacterial growth, evaluation of antiseptics, antimicrobial sensitivity test.

Recommended Books

- Pelczar, M.J. Jr., Chan, E.C.S. and Krieg, N.R. 1986. Microbiology– McGraw Hill Inc., New York.
- Benson, H.J., 1994. Microbiological applications. WmC Brown Publishers, Dubuque, USA.
- Alcamo, E. 1994. Fundamentals of Microbiology. The Benjamin/Cummings Publishing Co. Inc. Redwood city, CA 94065.
- Pelczar, M.J. Jr., Chan, E.C.S. and Krieg, N.R. 1993. Microbiology concepts and applications – McGraw Hill Inc., New York.