

SRI Y.N. COLLEGE (AUTONOMOUS) NARSAPUR

Accredited by NACC at “A” Grade with CGPA OF 3.40

Recognized by UGC as college with ‘potential for excellence’

B.Sc MICROBIOLOGY

BRIDGE COURSE SYLLABUS

UNIT 1

Historical introduction to microbiology, contributions of famous scientists in the field of microbiology, Anton von Leeuwenhoek, Edward Jenner, Louis Pasteur, Robert Koch, Ivanowsky. Alexander Fleming.

UNIT II

Microscopy- principle, use, care and maintenance of microscope. Compound microscope. Electron microscope, florescent microscope. General characteristics and outline classification of Bacteria, Fungi, Algae and Protozoa. Ultra structure of Prokaryotic cell and eukaryotic cell.

UNIT III

Staining Techniques –Simple and Differential (Gram Staining and Spore Staining). Sterilization and disinfection techniques - Physical methods – autoclave, hot-air oven, pressure cooker, laminar air flow, filter sterilization, Radiation methods – UV rays, Gamma rays. Chemical methods – alcohols, aldehydes, fumigants, phenols, halogens and hypochlorites.

SK. Jhaseedun

M. Suresh

Glenn

K. Venkata Reddy

K.L. Pratyusha

Santosh