

M.V.R. DEGREE COLLEGE
(UG And PG Courses)
 (Affiliated to Andhra University)
 An Institution of Priyadarshini Educational Academy
 NAAC ACCREDITED COLLEGE

Dr. V.Rama Rao, M.A., Ph.D.,
 Secretary & Correspondent

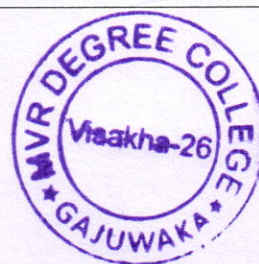
Dr. A. Balakrishna, M.Sc., Ph.D.,
 Principal

DEPARTMENT OF MICROBIOLOGY

Bachelor of Science (B.Sc. MB BC BT)
 APSCHE, Revised Syllabus of Microbiology under CBCS Frame Work
 w.e.f 2015 – 16 (Revised in April, 2015)

Course Out Comes (COs) for Microbiology

CODE	TITLE OF THE PAPER	OUTCOMES
MBT-101 (TH)	INTRODUCTION TO MICROBIOLOGY AND MICROBIOLOGY AND MICROBIAL DIVERSITY	<p>CO1: The main objective of this course to know the students about contributions of scientists and to know the general characteristics of microbiology</p> <p>CO2: Students get the knowledge about general characteristics of different species and also study the TMV and HIV.</p> <p>CO3: The main objective of this course to know the students about</p> <p>the characteristics and classification of fungi, algae and protozoa and also the students aware of principles, instrumentation and handling of microscopy.</p> <p>CO4: Student understands about different staining techniques and also study the physical and chemical methods of sterilization.</p> <p>CO5: The main objective of this course is to understand the students and get the knowledge about the ultra-structure of bacterial cell and also study the economic importance of algae and fungi.</p>
MBT-101 (PR)	INTRODUCTION TO MICROBIOLOGY AND MICROBIOLOGY AND	<p>CO1: Student know about the Microbiology Laboratory practices and biosafety.</p>



M.V.R. DEGREE COLLEGE
(UG And PG Courses)
(Affiliated to Andhra University)
An Institution of Priyadarshini Educational Academy
NAAC ACCREDITED COLLEGE

Dr.V.Rama Rao, M.A.,Ph.D.,
Secretary & Correspondent

Dr.A.Balakrishna, M.Sc.,Ph.D.,
Principal

	MICROBIAL DIVERSITY	<p>CO2: Preparation of culture media for cultivation of bacteria and fungi.</p> <p>CO3: Microscopic observation of bacteria (Gram positive bacilli and cocci, Gram negative bacilli), Cyanobacteria, Algae and fungi.</p> <p>CO4: Isolation of pure cultures of bacteria by streaking method.</p> <p>CO5: Diagrammatic or Electron photomicrographic observation of TMV, HIV, T4 phage and adenovirus.</p>
MBT-201 (TH)	MICROBIAL BIOCHEMISTRY AND METABOLISM	<p>CO1: Describe the chemistry of carbohydrates, lipids, proteins and amino acids.</p> <p>CO2: Students to understand the study of principals and applications of colorimetry. Other instruments such as spectrophotometry, centrifugation and gel electrophoresis.</p> <p>CO3: The ability in classifying enzymes and also understand the mechanism of catalysis employed by the most well characterized enzymes.</p> <p>Explain how the enzyme activity is regulated and affected by temperature, pH and concentration.</p> <p>CO4: The main objective of this course is to understand the student and get the knowledge of Microbial nutrition and different medias and also concepts of microbial growth.</p> <p>CO5: Describe the metabolic pathways of aerobic and anaerobic photosynthesis in bacteria.</p>
MBT-201 (PR)	MICROBIAL BIOCHEMISTRY AND METABOLISM	<p>CO1: Qualitative analysis of Carbohydrates and Amino acids.</p> <p>CO2: Colorimetric estimation of DNA by</p>