

**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 2020 – 21 (Revised in April, 2020)

**Program Specific Outcomes (PSOs)**

**PSO-1:** Microbiology is a branch of science that studies “life “taking an example of microorganisms such as bacteria, protozoa, algae, fungi, viruses etc.

**PSO-2:** The relevance and applications of these microorganisms to the surrounding environment including human life and Mother Nature becomes part of this branch.

**PSO-3:** Microbiological tools have been extensively used to study different life process and are cutting edge technologies

**PSO-4:** Microbiology is a branch of science that includes cytology, physiology, ecology, genetics and molecular biology etc.

**PSO-5:** Study of microbes has become an integral part of education and human progress. There is a continual demand for microbiologists in the work force –education, Industry and research.

**PSO-6:** Students are able to understand the synthesis of proteins, lipids, nucleic acids and carbohydrates and their role in metabolic pathways.

**PSO-7:** Students shall be able to understand and correlate clinical pathology of individuals in different disease conditions

**PSO-8:** This course will provide an insight of molecular structures of organic components present and require in day-to-day life

**PSO-9:** Graduates gain knowledge regarding isolating, purification, identification and functional aspects of various components present in organic molecules on practical techniques.

**PSO-10:** Students will be able to gain hands on experience in gene cloning, purification and protein expression.

**PSO-11:** This experience will enable them to begin a career in industry that engages in genetic engineering as well as in research laboratories.

*A. R. K. G.*  
*[Signature]*

PRINCIPAL

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