

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 Botany
Master of Science M.Sc Botany
Course Out comes COs

The M.Sc. Botany programme aims to give confidence for students to take dependability for developing themselves throughout their studies at our College, affiliated to Andhra University and will reflect the following postgraduate attributes.

S.No	Name of the course (Paper)	Course Code	Course objective and Outcome
SEMESTER-1			
1	Biology and diversity of algae and bryophytes	Core paper 101	<p>Course Objectives: This course aims to increase the understanding of the students about the diversity of lower plants, their classification, structure and growth.</p> <p>Course Learning Outcomes: The students will develop understanding about the diversity, identification, classification and economic importance of lower plants.</p>
2	Biology and diversity of bacteria, Viruses and fungi	Core Paper 102	<p>Course Objectives: This course aims to increase the understanding of the students about the diversity of microorganisms including fungi, their classification, structure and growth.</p> <p>Course Learning Outcomes: The course will increase the understanding of the students about the classification, structure, role and infectious cycle of microbes and Fungi.</p>
3	Cell biology of plants	Core Paper 103	<p>Course Objectives: The paper deals with Mendelian and non-Mendelian inheritance, quantitative genetics, molecular markers and linkage mapping, prokaryotic and eukaryotic genome-structure, gene function and regulation, epigenetic, cytogenetic and crop</p>



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			<p>evolution.</p> <p>Course Out Comes:</p> <ol style="list-style-type: none"> 1. They understand the pattern of inheritance in various life forms. 2. They develop strong fundamentals basics for further molecular studies.
4	Cytology and Cytogenetics	Core Paper 104	<p>Course Objectives:</p> <p>The paper deals with Mendelian and non-Mendelian inheritance, quantitative genetics, molecular markers and linkage mapping, prokaryotic and eukaryotic genome-structure, gene function and regulation, epigenetics, cytogenetics and crop evolution.</p> <p>Course Out Comes:</p> <ol style="list-style-type: none"> 1. They understand the pattern of inheritance in various life forms. 2. They develop strong fundamentals basics for further molecular studies.
SEMESTER-2			
5	Genetics	Core Paper 201	<p>Course Objectives:</p> <p>The objective of the present course content is to provide a foundation and background in cellular and acellular entities of plants and animals, cell structure in relation to functions, eukaryotic genome structure (including nuclear and organellar), and regulatory mechanisms.</p> <p>Course Out Comes:</p> <p>The students will be learning</p> <ol style="list-style-type: none"> 1. About the acellular entities including infective particles comprising only protein or RNA, which are parasites of plants and/or animals and of the observations/proposals which challenge the established dogmas, such as, cell being the basic unit of life or higher plants are multicellular rather than supracellular, and current state of knowledge about the plant cell structure and their turn over, starting from cell wall to chromatin, in relation to their functions.