D.N.R College (A): Bhimavaram, W.G. Dist. A.P (A College with Potential for Excellence) P.G. DEPARTMENT OF MICROBIOLOGY M.Sc. Course Objectives

Semester I	Paper Code	Paper Name	Course Objective
	MB-101	General Microbiology	This course presents
	1		the study of Micro
	1		organisms. To make
	1		the student to
	1		understood Micro
			organisms and their
			participation in day to
	1		day activities. On
			successful completion
			of the subject the
			student should have
			understood the Role
			of microorganisms in
			the diversity.
	MB-102	Bacteriology and	To inculcate
		Virology	knowledge about
			bacteria & virus, their
			role in causing
			disease.
	MB-103	Biomolecules	This course presents
	1		the chemical reactions
			or metabolic functions
			in the living system
	1		and their regulations.
			To make the student
			to understand the
			concept of
			biochemical
			regulations
			Objectives, On
			successful completion
			of the subject the
			student should have
			understood Basic
			Structure and
			metabolism of
			Biomolecules.
	MB-104	Analytical Techniques	Enable the student to

			get sufficient knowledge in principles and applications of bio instruments.
Semester II	MB-201	Microbial Physiology & Metabolism	Enable the student with concepts of Microbial Physiology & Metabolisms takes place in microbes
	MB-202	Cell Biology & Enzymology	Enable the student to study enzymology for diagnostic and research tools in the specificity that they exhibit relative to the reactions they catalyze and understood the concept of cell and their activities
	MB-203	Molecular & Microbial Genetics	On Successful Completion of this subject the students should have a sound knowledge about the genetics of microbes
	MB-204	Immunology	This course presents the basic defense mechanism of animals. To make the student to understood the concept immunology. On successful completion of the subject the student should have understood: Immunity, Antigen, Antibody, Cells of immune system and their function and regulations
Semester III	MB-301	Molecular Microbiology	Enable the students to know about

			microoraganism at
			molecular level.
	MB-302	Genetic Engineeering	Enable the student to
	1,12,502	Genetic Engineering	know microbes
			involved in
			recombinant DNA
			Technology
	MB-303	Bioinformatics,	Enable the student
	1,12 303	Microbial Genomics	involving sequence
		& Proteomics	data management and
		ca i roteonnes	drug design occurred
			at a speedy rate due to
			development
			of bioinformatics and
			study of microbes
			based genomics &
			proteomics
	MB-304	Medical Microbiology	To inculcate
	WID 301	Wedlear Wherobiology	knowledge in
			relationship between
			human disease and
			micro organisms,
			pathogenicity,
			laboratory diagnosis
			and treatment
			methods.
Semester IV	MB-401	Fermentation	Enable the student to
Bemester 1 v	WID 101	Technology &	know the harvesting
		Industrial	of microbial cells &
		Microbiology	production of
		Wherobiology	microbial metabolites.
	MB-402	Environmental	To inculcate
	102	Microbiology	knowledge in role of
		Wilciobiology	micro organisms in
			eco system
	MB-403	Food & Agricultural	Enable the student to
	103	Microbiology	get sufficient
		Microbiology	knowledge in
			relationship between
			food and microbes,
			techniques used in
			food processing and
			impact created by
			microbes in
			agricultural
			development.
			acveropinent.

range of topics in biology To discuss what a "researchable problem" is and to describe how a research problem
