



DR. RAM MANOHAR LOHIA AVADH UNIVERSITY, AYODHYA

Structure of Syllabus for the

Program: M.Sc., Subject: MICROBIOLOGY (Campus & College)

Structure of Syllabus Developed by			
Name of BoS Convener/BoS Member	Designation	Department	College/ University
Prof. Shailendra Kumar	Convener	Microbiology	Dr. R.M.L. Avadh University, Ayodhya
Prof. Rajeeva Gaur	Member	Microbiology	Dr. R.M.L. Avadh University, Ayodhya
Prof. Tuhina Verma	Member	Microbiology	Dr. R.M.L. Avadh University, Ayodhya
Dr. Ranjan Singh	Member	Microbiology	Dr. R.M.L. Avadh University, Ayodhya
Prof. Gopal Nath	External Expert	Microbiology	IMS, BHU, Varanasi
Prof. Ram Narain	External Expert	Biotechnology	V.B.S. Purvanchal University., Jaunpur
Prof. Sangeeta Saxena	External Expert	Biotechnology	BBA University, Lucknow
Prof. D.R. Modi	External Expert	Biotechnology	BBA University, Lucknow
Prof. Vivek Prasad	External Expert	Botany	University of Lucknow, Lucknow

Course Code		Course Title	Credits	T/P	Evaluation	
A	B				CIE	ETE
A	B	C	D	E	F	G
SEMESTER I (YEAR I)						
B080701T	CORE	General Microbiology	5	T	25	75
B080702T	CORE	Agriculture & Environmental Microbiology	5	T	25	75
B080703T	CORE	Instrumentation & Analytical Methods	5	T	25	75
B080704T	FIRST ELECTIVE (Subject Elective) (Select any one)	Basic Biochemistry	5	T	25	75
B080705T		Bioinformatics	5	T	25	75
B080706P	SECOND ELECTIVE (Subject Elective) (Select any one)	Microbiology Laboratory Course –I	5	P	50	50
B080707P		Field Visit	5	P	50	50
SEMESTER II (YEAR I)						
B080801T	CORE	Molecular Biology & Bacterial Genetics	5	T	25	75
B080802T	CORE	Biocatalysis, Bioenergetics and Metabolic Pathways	5	T	25	75

B080803T	CORE	Concepts of Immunology	5	T	25	75
B080804T	THIRD ELECTIVE	Environmental Issues	5	T	25	75
B080805T	(Generic Elective) (Select any one)	Health & Hygiene	5	T	25	75
B080806P	FOURTH ELECTIVE	Microbiology Laboratory Course –II	5	P	50	50
B080807P	(Subject Elective) (Select any one)	Industrial Training	5	P	50	50
SEMESTER III (YEAR II)						
B080901T	CORE	Bacterial Physiology	5	T	25	75
B080902T	CORE	Medical Microbiology	5	T	25	75
B080903T	CORE	Evolution & Microbial Taxonomy	5	T	25	75
B080904T	FIFTH ELECTIVE	Modern Microbial Technology	5	T	25	75
B080905T	(Subject Elective) (Select any one)	Emerging Infectious Diseases	5	T	25	75
B080906P	SIXTH ELECTIVE	Microbiology Laboratory Course –V	5	P	50	50
B080907P	(Subject Elective) (Select any one)	Project Presentation	5	P	50	50
SEMESTER IV (YEAR II)						
B081001T	CORE	Industrial Microbiology	5	T	25	75
B081002T	CORE	Food Microbiology	5	T	25	75
B081003P	SEVENTH ELECTIVE	Seminar & Interactive Course	5	P	50	50
B081004P	(Subject Elective) (Select any one)	Review and Assignment	5	P	50	50
B081005P	RESEARCH PROJECT/ DISSERTATION	Major Research Project/ Dissertation	10	P	50	50

NOTE: All the theory papers shall be of 5 (4+1) credit, i.e. 4 Lectures and 1 Tutorial