



DR. RAM MANOHAR LOHIA AVADH UNIVERSITY, AYODHYA

Structure of Syllabus for the

PROGRAM: M.Sc., SUBJECT: BIOTECHNOLOGY

Syllabus Developed by				
SN	Name of Expert/BoS Member	Designation	Department	College/ University
1	Prof. R.K. Mishra	External Expert	Department of Biochemistry	University of Lucknow, Lucknow
2	Prof. Farrukh Jamal	Professor	Department of Biochemistry	Dr. Rammanohar Lohia Avadh University, Ayodhya
3	Dr. Vandana Ranjan	Associate Professor	Department of Biochemistry	Dr. Rammanohar Lohia Avadh University, Ayodhya
4	Dr. Sangram Singh	Associate Professor	Department of Biochemistry	Dr. Rammanohar Lohia Avadh University, Ayodhya
5	Dr. Neelam Yadav	Assistant Professor	Department of Biochemistry	Dr. Rammanohar Lohia Avadh University, Ayodhya
6	Dr. Shivi Srivastava	Assistant Professor	Department of Biochemistry	Dr. Rammanohar Lohia Avadh University, Ayodhya
7	Dr. Pankaj Singh	Assistant Professor	Department of Biotechnology	Dr. Rammanohar Lohia Avadh University, Ayodhya
8	Dr. Manikant Tripathi	Assistant Professor	Department of Biotechnology	Dr. Rammanohar Lohia Avadh University, Ayodhya
9	Prof. Neelam Pathak	Professor, Head & Convenor	Department of Biochemistry	Dr. Rammanohar Lohia Avadh University, Ayodhya

Course Code		Course Title	Credits	T/P	Evaluation	
A	B	C	D	E	CIE	ETE
SEMESTER I (YEAR I)						
B100701T	CORE	Macromolecules: Structure and Functions	5	T	25	75
B100702T	CORE	Microbial Physiology and Genetics	5	T	25	75
B100703T	CORE	Bioanalytical Tools and Techniques	5	T	25	75
B100704T	FIRST ELECTIVE (Subject Elective) (Select any one)	Molecular Biology	5	T	25	75
B100705T		Enzyme and Food Technology	5	T	25	75
B100706P	SECOND ELECTIVE (Subject Elective) (Select any one)	Biotechnology Lab Course-I	5	P	50	50
B100707P		Biotechnology Lab Course-II	5	P	50	50

SEMESTER II (YEAR I)						
B100801T	CORE	Immunology	5	T	25	75
B100802T	CORE	Genetic Engineering	5	T	25	75
B100803T	CORE	Environmental Biotechnology	5	T	25	75
B100804T	THIRD ELECTIVE (Generic Elective) (Select any one)	Fundamentals of Nutrition Science	5	T	25	75
B100805T		Cell Biology	5	T	25	75
B100806P	FOURTH ELECTIVE (Subject Elective) (Select any one)	Biotechnology Lab Course-III	5	P	50	50
B100807P		Biotechnology Lab Course-IV	5	P	50	50
SEMESTER III (YEAR II)						
B100901T	CORE	Animal Biotechnology and Cell Culture	5	T	25	75
B100902T	CORE	Plant Biotechnology and Tissue culture	5	T	25	75
B100903T	CORE	Bioprocess Engineering and Technology	5	T	25	75
B100904T	FIFTH ELECTIVE (Subject Elective) (Select any one)	Clinical Biochemistry and IPR & Biosafety	5	T	25	75
B100905T		Medical Biotechnology	5	T	25	75
B100906P	SIXTH ELECTIVE (Subject Elective) (Select any one)	Biotechnology Lab Course-V	5	P	50	50
B100907P		Biotechnology Lab Course-VI	5	P	50	50
SEMESTER IV (YEAR II)						
B101001T	CORE	Applied Biotechnology	5	T	25	75
B101002T	CORE	Research Methodology	5	T	25	75
B101003P	SEVENTH ELECTIVE (Subject Elective) (Select any one)	Seminar & Interactive Course	5	P	50	50
B101004P		Review and Assignment	5	P	50	50
B101005P	RESEARCH PROJECT/ DISSERTATION	Major Research Project/ Dissertation	10	P	50	50