

## DR. RAM MANOHAR LOHIA AVADH UNIVERSITY, AYODHYA

## Structure of Syllabus for the

## Program: M.Sc., Subject: BIOCHEMISTRY

Syllabus Developed by								
SNo	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	Prof. Neelam Pathak	Professor, Head & Convenor	Department of Biochemistry	Dr. Rammanohar Lohia Avadh University, Ayodhya				

Course Code		Course Title	Credits	T/P	Evaluation			
					CIE	ETE		
А	В	С	D	E	F	G		
SEMESTER I (YEAR I)								
B110701T	CORE	Biomolecules: Structure & Function	5	Т	25	75		
B110702T	CORE	Bioanalytical techniques	5	Т	25	75		
B110703T	CORE	Essentials of Metabolism	5	Т	25	75		
B110704T	FIRST ELECTIVE	Essentials of Molecular Biology	5	Т	25	75		
B110705T	(Subject Elective) (Select any one)	Pharmaceutical Biochemistry	5	т	25	75		
B110706P	SECOND ELECTIVE (Subject Elective) (Select any one)	Biochemistry Laboratory Course -A	5	Ρ	50	50		
B110707P		Biochemistry Laboratory Course -B	5	Ρ	50	50		
SEMESTER II (YEAR I)								
B110801T	CORE	Gene Expression & Regulation	5	Т	25	75		
B110802T	CORE	Cell Biology & Signaling pathways	5	Т	25	75		

B110803T	CORE	Protein Biochemistry & Enzymology	5	Т	25	75		
B110804T	THIRD ELECTIVE	Fundamentals of Nutrition Science	5	Т	25	75		
B110805T	(Generic Elective) (Select any one)	Fundamentals of Environmental Sciences	5	т	25	75		
B110806P	FOURTH ELECTIVE	Biochemistry Laboratory Course -C	5	Р	50	50		
B110807P	(Subject Elective) (Select any one)	Biochemistry Laboratory Course -D	5	Ρ	50	50		
SEMESTER III (YEAR II)								
B110901T	CORE	Essentials of Microbiology	5	Т	25	75		
B110902T	CORE	Immunology	5	Т	25	75		
B110903T	CORE	Genetic Engineering	5	Т	25	75		
B110904T	FIFTH ELECTIVE (Subject Elective)	Clinical Biochemistry and IPR & Biosafety	5	Т	25	75		
B110905T	(Select any one)	Bioinformatics and Biostatistics	5	Т	25	75		
B110906P	SIXTH ELECTIVE	Biochemistry Laboratory Course -E	5	Р	50	50		
B110907P	(Subject Elective) (Select any one)	Biochemistry Laboratory Course -F	5	Р	50	50		
		SEMESTER IV (YEAR II)						
B111001T	CORE	Applied Biotechnology	5	Т	25	75		
B111002T	CORE	Research Methodology	5	Т	25	75		
B111003P	SEVENTH ELECTIVE	Seminar & Interactive Course	5	Р	50	50		
B111004P	(Subject Elective) (Select any one)	Review and Assignment	5	Р	50	50		
B111005P	RESEARCH PROJECT/ DISSERTATION	Major Research Project/ Dissertation	10	Р	50	50		