MSc Biotechnology

PROGRAM STRUCTURE AND SYLLABUS 2019-20 ADMISSIONS ONWARDS

(UNDER MAHATMA GANDHI UNIVERSITY PGCSS REGULATIONS 2019)



EXPERT COMMITTEE IN BIOTECHNOLOGY (PG)
MAHATMA GANDHI UNIVERSITY

2019

1. THE PROGRAMME STRUCTURE

Course	Title of the Course	Type of the	Hours	Credits	Total	
Code		Course	per	(80)	credits	
			week			
	FIRST SEMEST	ER				
BT020101	General Biochemistry	Theory	4	4		
BT020102	Cell Biology and genetics	Theory	4	4	19	
BT020103	Instrumentation and Biostatistics	Theory	4	4		
BT020104	Biophysics and Bioinformatics	Theory	3	3		
BT020105	Lab course I	Practical	10	4		
	SECOND SEMES	STER				
BT020201	Microbiology	Theory	4	4	19	
BT020202	Immunology	Theory	4	4		
BT020203	Molecular Biology	Theory	4	4		
BT020204	Enzymology and metabolism	Theory	3	3		
BT020205	Lab course II	Practical	10	4		
	THIRD SEMES	TER				
BT020301	Bioprocess Technology	Theory	4	4		
BT020302	Recmbinant DNA Technology	Theory	4	4		
BT020303	Environmental biotechnology	Theory	4	4	19	
BT020304	Plant and Animal biotechnology	Theory	3	3		
BT020305	Lab Course III	Practical	10	4		
	FOURTH SEME	STER				
BT8304	Elective I	Theory	5	4		
BT8404	Elective II	Theory	5	4	1	
BT8504	Elective III	Theory	5	4	23	
BT020401	Lab Course	Practical	10	4	1	
BT020402	Project and Dissertation			4	1	
BT020403	Comprehensive viva voce		of Bio Sci	ence3 + So		
T	otal		25 NO.	AST 101	80	

THE PROGRAMME STRUCTURE: ELECTIVES:

Course Code	Elective Groups	Elective courses	Credit
BT830401		Environment and Biotechnology	4
BT830402	Elective Group I	Food Biotechnology	4
BT830403		Advanced Molecular Techniques	4
BT840401		Physiology and Biotechnology	4
BT840402	Elective Group II	Microbial Food Technology	4
BT840403		IPR and Biotechnology	4
BT850401		Molecular biology of Development	4
BT850402	Elective Group	Cancer Biology	4
BT850403	III	Genomics: Techniques and Applications	4

