Code	Course	L	Т	Ρ	Credits		
THEORY							
BT301	Animal and Plant Tissue Culture	3	1	0	4		
BT303	Developmental Biology	3	0	0	3		
BT305	Industrial Microbiology	3	1	0	4		
BT307	Biophysical Chemistry	3	0	0	3		
	Generic Elective	3	0	0	3		
PRACTICALS							
BT313	Animal Tissue Culture lab	0	0	3	2		
BT315	Plant Tissue Culture lab	0	0	3	2		
BT317	Industrial Microbiology lab	0	0	3	2		
	General Proficiency	0	0	0	0		
	Total credits	15	2	9	23		

Semester 5

Generic Elective (GE):

- 1. BT309 Entrepreneurship Development
- 2. BT311 Introductory Medical Microbiology

Semester 6

Code	Course	L	Т	Ρ	Credits		
THEORY							
BT302	Molecular Biology	3	0	0	3		
BT304	Food Biotechnology	3	0	0	3		
BT306	Virology	3	1	0	4		
BT308	Environmental Biotechnology	3	1	0	4		
BT310	Developments in Therapeutics	3	0	0	3		
	PRACTICAL						
BT312	Molecular Biology Lab	0	0	3	2		
BT314	Food Biotechnology Lab	0	0	3	2		
BT316	Environmental Biotechnology Lab.	0	0	3	2		
	General Proficiency	0	0	0	0		
	Total credits	15	2	9	23		

Semester 7

Code	Course	L	Т	Ρ	Credits		
THEORY							
BT501	Recombinant DNA technology	3	1	0	4		
BT503	Principles of Immunology & Immunotechnology	3	1	0	4		
BT505	Nano biotechnology	3	0	0	3		
	Discipline Specific Elective 1*	3	0	0	3		
	Discipline Specific Elective 2*	3	0	0	3		
PRACTICAL							
BT511	Recombinant DNA technology lab	0	0	3	2		
BT513	Immunology & Immunotechnology lab	0	0	3	2		
	General Proficiency	0	0	0	0		
	Total credits	15	2	6	21		

*Students opting for MBA will have to choose courses offered by the School of Management

Discipline Specific Elective (DSE) 1:

- 1. FP301 Food Analysis and Quality Control
- 2. One Course offered by the School of Management

Discipline Specific Elective (DSE) 2:

- 1. BT507 Stem Cell Biology
- 2. BT509 Molecular Toxicology
- 3. One Course offered by the School of Management

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Seme	ester 8	

Code	Course	L	Т	Ρ	Credits			
	THEORY							
BT502	Genomics and Proteomics	4	0	0	4			
BT504	Computational biology	3	0	0	3			
BT506	Bioprocess Engineering & Technology	3	1	0	4			
BT508	Vaccine Design & Development	3	1	0	4			
	Generic Elective	3	0	0	3			
	PRACTICAL							
BT514	Genomics and Proteomics lab	0	0	3	2			
BT516	Computational Biology lab	0	0	3	2			
BT518	Bioprocess Engineering & Technology lab	0	0	3	2			
	General Proficiency	0	0	0	0			
	Total credits	16	2	9	24			

Generic Elective (GE):

- 1. BT510 Regulation Ethics and Patenting in Biotechnology
- 2. FP507 Food Quality & Standards
- 3. ES504 Environmental Economics, Policies, Conservation & Legislations
- 4. BT512 Molecular Medicine

After 8th semester:

Code	Course	L	Т	Р	Credits
BT550	Summer Project	0	0	0	5
	Total credits	0	0	0	5

Code	Course	L	Т	Ρ	Credits		
BT601	Research Methodology & Data Validation	3	0	0	3		
	(Select any three papers)						
BT603	Advanced Animal Biotechnology	3	0	0	3		
BT605	Advanced Plant Biotechnology	3	0	0	3		
BT607	Advanced Microbial Biotechnology	3	0	0	3		
BT609	Industrial Environmental Biotechnology	3	0	0	3		
LABS (select any <i>Three</i> labs corresponding to the Theory course)							
BT611	Animal Biotechnology lab	0	0	3	2		
BT613	Plant Biotechnology lab	0	0	3	2		
BT615	Microbial Biotechnology lab	0	0	3	2		
BT617	Environmental Biotechnology lab	0	0	3	2		
	PROJECTS						
BT619	Dissertation I	0	0	0	5		
	General Proficiency	0	0	0	0		
	Total credits 12 0 9 23						

Semester 9

Semester 10

Code	Course	L	Т	Р	Credits
BT602	Dissertation-II	0	0	0	25
	General Proficiency	0	0	0	0
	Total credits				25

*General Proficiency (non-credit course) will be offered in each semester.

Total Credits = 235
