

BS Biological Sciences Curriculum

(from 2024 batch onward)

Semester 1

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1	BT1000	Introduction to Biological Sciences and Engineering	3	0	0	0	6	9	P
2	CY1001	Chemistry I	3	1	0	0	6	10	S
3	MA1101	Functions of Several Variables	3	1	0	0	6	10	S
4	PH1010	Physics 1	3	1	0	0	6	10	S
5	PH1030	Physics Lab	0	0	0	3	1	4	S
6	GN1101	Life Skills	0	0	0	0	2	4	G
7	GN1xxx	Recreation	0	0	0	0	3	2	G
8	ID1200	Ecology and Environment	0	0	0	0	2	2	G
9		NCC (NC1010)/ NSS (NS1020)/ NSO (NS1030)	0	0	0	0	2	2	G
		Total credits						53	

Semester 2

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1	HSE1	Humanities 1	3	0	0	0	6	9	H
2	MAXXXX	Mathematics Elective (from MA basket)	3	1	0	0	6	9	S
3	PHXXXX	Physics Elective (from PH basket)	3	1	0	0	6	9	S
4	CY1051	Introduction to Spectroscopic Methods	3	0	0	0	6	9	S
5	BT2030	Biochemistry	3	0	0	0	6	9	P
6	CY1002	Chemistry Lab	0	0	0	3	0	3	S
7	GN1102	Life Skills	0	0	0	0	1	1	G
8	GN1xxx	Recreation	0	0	0	0	3	3	G
9		NCC (NC1010)/ NSS (NS1020)/ NSO (NS1030)	0	0	0	0	2	2	G
		Total Credits:						54	

Semester 3

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1	HSE2	Humanities 2	3	0	0	0	6	9	H
2	BT2020	Genetics	3	0	0	0	6	9	P
3	BT2042	Fundamentals of Biophysical Chemistry	3	0	0	0	6	9	P
4	BT2082	Cell Biology	3	0	0	0	6	9	P
5	BT2012	Numerical Methods for Biology	2	1	0	0	6	9	P

6	BT2112	Biochemistry Lab	0	0	0	6	2	8	P
		Total Credits:						53	

Semester 4

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1	BT2010	Microbiology	3	0	0	0	6	9	P
2	BT3012	Molecular Biology	3	0	0	0	6	9	P
3	BT2022	Biostatistics	3	1	0	0	6	10	P
4	BT2080	Programming for Biology	2	0	0	3	6	11	C
5	BT3142	Cell Biology Lab	0	0	0	6	2	8	P
6	MSXXXX	Entrepreneurship	3	0	0	0	6	9	M
		Total Credits:						56	

Semester 5

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1	HSE3	Humanities 3	3	0	0	0	6	9	H
2	BT3020	Structural Biology	3	0	0	0	6	9	P
3	BT3032	Evolutionary Biology	3	0	0	0	6	9	P
4	BT3040	Bioinformatics	2	0	0	3	6	11	P
5	BTXXXX	Animal Biology	3	0	0	0	6	9	P
6	BT3122	Molecular Biology Lab	0	0	0	6	2	8	P
		Total Credits:						55	

Semester 6

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1		Professional Elective 1	3	0	0	0	6	9	P
2		Professional Elective 2	3	0	0	0	6	9	P
3		Unallocated credits						18	
		Total Credits:						36	

Semester 7

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1	BT3092	Plant Biology	3	0	0	0	6	9	P
2	BT3072	Immunology	3	0	0	0	6	9	P
3	BT2122	Microbiology Lab	0	0	0	6	2	8	P
4		Professional Elective 3	3	0	0	0	6	9	P
5		Professional Elective 4	3	0	0	0	6	9	P

		Total Credits:							44
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Semester 8

S.No	Course No	Course Name	L	T	E	P	O	C	Cat
1	HS3050	Professional Ethics	2	0	0	0	0	2	G
2		Professional Elective 5	3	0	0	0	6	9	P
3		Unallocated credits						38	
		Total Credits:						49	

MA basket (for 2nd and 3rd semester MA courses):

- MA2101 Linear Algebra via Matrices
- MA2102 Differential Equations
Probability, Statistics and Stochastic
- MA2103 Process

PH basket (for 2nd semester MA courses):

- PH1xxx Electromagnetism
- PH1xxx Classical Mechanics