

CONSOLIDATED COURSE STRUCTURE AND SUBJECT LIST FOR POST GRADUATE

S. N.	Code	Course Title	Course Credits			
			Theory	Practical	Total	
Compulsory courses						
1	BLT	801	Basic Concepts in Laboratory Techniques	0	1	1
2	TWC	801	Technical Writing and Communications Skills	0	1	1
3	BIB	801	Biosafety, IPR and Bioethics	1	0	1
4	SEM	801	PG Seminar -I	0	2	2
5	SEM	802	PG Seminar -II	0	2	2
6	PRJ	801	Project work-I (Project proposal)	0	5	5
7	PRJ	802	Project work-II (Research Dissertation)	0	15	15
8	IND	801	PG Industrial Visit	0	1	1
9	CWK	801	PG Course work - I	0	1	1
10	CWK	802	PG Course work -II	0	1	1
Total Credits of Compulsory Courses				1	29	30
Courses Offered for M. Sc. Program						
1	CEB	801	Molecular Cell Biology	3	1	4
2	BIC	801	Advanced Biochemistry	3	1	4
3	MIC	801	Microbiology and Virology	3	1	4
4	IMM	801	Infection and Immunity	3	1	4
5	STAT	801	Biostatistics	3	1	4
6	GEN	801	Genetics	3	1	4
7	BINF	801	Bioinformatics	3	1	4
8	BIP	801	Tools and Techniques in Biology	3	1	4
9	DEV	801	Developmental Biology	3	1	4
10	MOB	801	Molecular Biology	3	1	4
11	MOB	802	Recombinant DNA technology	3	1	4
12	BIT	801	Plant Biotechnology	2	1	3
13	BIT	802	Animal Biotechnology	2	1	3
14	BIT	803	Industrial and Environmental Biotechnology	2	1	3
15	GEN	802	Evolutionary and Population Genetics	3	1	4
16	GEN	803	Microbial Genetics	3	1	4
17	GEN	804	Human- and Onco-genetics	3	1	4
18	EVOL	801	Evolution and Behavior	3	1	4
19	BOD	801	Biology of Diseases	3	1	4
20	BIT	804	Nanobiotechnology	3	1	4
21	NEB	801	Neurobiology	3	1	4
22	BIP	802	Molecular Biophysics	3	0	3
23	GNP	801	Functional Genomics and Proteomics	3	0	3
24	ENS	801	Environmental Science Fundamentals	3	1	4
25	ENS	802	Natural Resources and Energy Management	3	1	4
26	ENS	803	Fundamentals of Environmental Chemistry	3	1	4
27	ENS	804	Environmental Geosciences	3	1	4
28	ENS	805	Fundamentals of Ecology and Ecosystems	3	1	4
29	ENS	806	Environmental Pollution and Control	3	1	4
30	ENS	807	Environmental Impact Assessment	3	1	4
31	ENS	808	Solid Wastes Management	3	1	4

32	ENS	809	Environmental Remote sensing and GIS	3	1	4
33	ENS	810	Waste to Resources	3	1	4
34	ENS	811	Environmental Bioremediation	3	1	4
35	ENS	812	Environmental Management Fundamentals	3	1	4
36	ENS	813	Environmental Research Methodology	3	1	4
37	ENS	814	Environmental Education and Envl Policy	3	1	4
38	ENS	815	Environmental Health and Society	3	1	4
39	ENS	816	Environ. and Natural Resources Economics	3	1	4
40	STAT	802	Environmental Statistics	3	1	4
41	PLS	801	Plant Molecular and Developmental Biology	3	1	4
			Total Credits of Courses	120	38	155
			Total Available Credits	121	68	189

COURSE STRUCTURE FOR M.SC. BIOTECHNOLOGY

S. N.	Code		Course Title	Course Credits		
				Theory	Practical	Total
Compulsory courses						
1	BLT	801	Basic Concepts in Laboratory Techniques	0	1	1
2	TWC	801	Technical Writing and Communications Skills	0	1	1
3	BIB	801	Biosafety, IPR and Bioethics	1	0	1
4	SEM	801	PG Seminar -I	0	2	2
5	SEM	802	PG Seminar -II	0	2	2
6	PRJ	801	PG Seminar -III (Project proposal)	0	5	5
7	PRJ	802	PG Seminar -IV (Research Dissertation)	0	15	15
8	IND	801	PG Industrial Visit	0	1	1
9	CWK	801	PG Course work - I	0	1	1
10	CWK	802	PG Course work -II	0	1	1
Total Credits of Compulsory Courses				1	29	30
Core Courses (Minimum 40 Credits)						
1.	CEB	801	Molecular Cell Biology	3	1	4
2.	BIC	801	Advanced Biochemistry	3	1	4
3.	MIC	801	Microbiology and Virology	3	1	4
4.	IMM	801	Infection and Immunity	3	1	4
5.	STAT	801	Biostatistics	3	1	4
6.	GEN	801	Genetics	3	1	4
7.	BINF	801	Bioinformatics	3	1	4
8.	BIP1	801	Tools and Techniques in Biology	3	1	4
9.	MOB	801	Molecular Biology	3	1	4
10.	MOB	802	Recombinant DNA technology	3	1	4
11.	BIT	801	Plant Biotechnology	2	1	3
12.	BIT	802	Animal Biotechnology	2	1	3
13.	BIT	803	Industrial and Environmental Biotechnology	2	1	3
14.	DEV	801	Developmental Biology	3	1	4
15.	BOD	801	Biology of Diseases	3	1	4
Total Credits of Core Courses				42	15	57
Elective Courses (Minimum 10 Credits)						
1.	GEN	802	Evolutionary and Population Genetics	3	1	4
2.	GEN	803	Microbial Genetics	3	1	4
3.	GEN	804	Human- and Onco-genetics	3	1	4
4.	ZOO	801	Evolution and Behavior	3	1	4
5.	ENS	805	Fundamentals of Ecology and Ecosystems	3	1	4
6.	NEB	801	Neurobiology	3	1	4
7.	BIT	804	Nanobiotechnology	3	1	4
8.	BIP	802	Molecular Biophysics	3	0	3
9.	GNP	801	Functional Genomics and Proteomics	3	0	3

10.	ENS	811	Environmental Bioremediation	3	1	4
11.	PLS	801	Plant Molecular and Developmental Biology	3	1	4
			Total Credits of Elective Courses	33	9	42
			Total Available Credits	76	53	129