

M.Sc. Biotechnology (2 Year Regular Programme) Course Structure

First year (First Semester)

S.No.	Course Title	Periods			Contact hours	Credits
		L	T	P		
BMS 1.1	Microbiology	4	0	4	8	4
BMS 1.2	Biochemistry	4	0	0	4	3
BMS 1.3	Bioanalytical instrumentation	4	0	4	8	4
BMS 1.4	Molecular Biology	4	0	0	4	3
BMS 1.5	Cell Biology and Molecular genetics	4	0	0	4	3
BMS 1.6	CSS-I	2	0	0	2	1
	Total =	22	0	8	30	18

First year (Second Semester)

S.No.	Course Title	Periods			Contact hours	Credits
		L	T	P		
BMS 2.1	Intermediary Metabolism	4	0	0	4	3
BMS 2.2	Immunology	4	0	0	4	3
BMS 2.3	Genetic Engineering	4	0	4	8	4
BMS 2.4	Bioprocess Technology	4	0	4	8	4
BMS 2.5- 2.7	Elective-I	4	0	0	4	3
BMS 2.8	Technical and Writing skills	2	0	0	2	1
	Total=	22	0	8	30	18

Elective-I:

BMS 2.5 Cancer Biology.

BMS 2.6 Regulatory Affairs and Clinical Trials.

BMS 2.7 Industrial Management and Entrepreneurship development.

Second year (First Semester)

S.No.	Course Title	Periods			Contact hours	Credits
		L	T	P		
BMS 3.1	Plant and Animal Biotechnology	4	0	4	8	4
BMS 3.2	Environmental and Industrial Biotechnology	4	0	0	4	3
BMS 3.3	Biostatistics and Bioinformatics	4	0	4	8	4
BMS 3.4 -3.6	Elective-II	4	0	0	4	3
BMS 3.7 - 3.9	Elective-III	4	0	0	4	3
BMS 3.10	Term Paper and Presentation	2	0	0	2	1
	Total=	22	0	8	30	18

Elective-II

- BMS 3.4 IPR and Patent Laws
- BMS 3.5 Clinical Biotechnology
- BMS 3.6 Biosafety and Bioethics

Elective-III

- BMS 3.7 Protein Engineering
- BMS 3.8 Molecular Modeling and Drug design
- BMS 3.9 Marine Biotechnology and Pharmacology

Second year (Second Semester)

S.No.	Course Title	Periods			Contact hours	Credits
		L	T	P		
BMS 4.1	Nanobiotechnology	4	0	0	4	3
BMS 4.2	Genomics and Proteomics	4	0	0	4	3
BMS 4.3	Project work/Thesis	-	-	22	22	12
	Total	8	0	22	30	18

Total Credits for the course: 74 Credits