

**Department of Biochemistry**  
**Faculty of Life Sciences**  
**FYUP Course Structure**

S.No	Course Code	Title of the Course	Faculty Code	End Sem Mark	Sessional Marks	Credits	Part/ Semester	Course Category	Department	Session/ Year of Introduction
1	2	3	4	5	6	7	8	9	10	11
1	BCBLMJ1001	Biomolecules	L	70	30	4	I	MJC	Biochemistry	2022-23
2	BCBLMJ1002	Structure and Function of Cell	L	70	30	2	I	MJC	Biochemistry	2022-23
3	BCBLMJ1P01	Lab-I (BCBLMJ1001/1002)	L	40	60	2	I	MJC	Biochemistry	2022-23
4	BCBLMN1003	Fundamentals of Biochemistry	L	70	30	4	I	MNC	Biochemistry	2022-23
5	BCBLMN1P01	Lab-I (BCBLMN1003)	L	40	60	2	I	MNC	Biochemistry	2022-23
6	BCBLGE1004	Concepts of Cell Biology	L	70	30	4	I	GNE	Biochemistry	2022-23
7	BCBLMJ2001	Microbiology	L	70	30	4	II	MJC	Biochemistry	2022-23
8	BCBLMJ2002	Virology	L	70	30	2	II	MJC	Biochemistry	2022-23
9	BCBLMJ2P02	Lab-II (BCBLMJ2001/2002)	L	40	60	2	II	MJC	Biochemistry	2022-23
10	BCBLMN2003	Introductory Microbiology	L	70	30	4	II	MNC	Biochemistry	2022-23
11	BCBLMN2P02	Lab-II (BCBLMN2003)	L	40	60	2	II	MNC	Biochemistry	2022-23
12	BCBLGE2004	Introduction to Viruses	L	70	30	4	II	GNE	Biochemistry	2022-23
13	BCBLMJ3001	Enzymology	L	70	30	4	III	MJC	Biochemistry	2022-23
14	BCBLMJ3002	Biostatistics & Data Analysis	L	70	30	2	III	MJC	Biochemistry	2022-23
15	BCBLMJ3P03	Lab-III (BCBLMJ3001/3002)	L	40	60	2	III	MJC	Biochemistry	2022-23
16	BCBLMN3003	Introduction to Biocatalysts	L	70	30	4	III	MNC	Biochemistry	2022-23

17	BCBLMN3P03	Lab-III (BCBLMN3003)	L	40	60	2	III	MNC	Biochemistry	2022-23
18	BCBLGE3004	Biological Data Analysis	L	70	30	4	III	GNE	Biochemistry	2022-23
19	BCBLVO3005	Experimental Skills in Biochemistry	L	70	30	2	III	VOC	Biochemistry	2022-23
20	BCBLMJ4001	Metabolism	L	70	30	4	IV	MJC	Biochemistry	2022-23
21	BCBLMJ4002	Clinical Biochemistry	L	70	30	2	IV	MJC	Biochemistry	2022-23
22	BCBLMJ4P04	Lab-IV (BCBLMJ4001/4002)	L	40	60	2	IV	MJC	Biochemistry	2022-23
23	BCBLMN4003	Biochemical Pathways	L	70	30	4	IV	MNC	Biochemistry	2022-23
24	BCBLMN4P04	Lab-IV (BCBLMN4003)	L	40	60	2	IV	MNC	Biochemistry	2022-23
25	BCBLGE4004	Medical Biochemistry	L	70	30	4	IV	GNE	Biochemistry	2022-23
26	BCBLMJ5001	Concepts of Immunology	L	70	30	4	V	MJC	Biochemistry	2022-23
27	BCBLMJ5P05	Lab-V (BCBLMJ5001)	L	40	60	2	V	MJC	Biochemistry	2022-23
28	BCBLMJ5002	Proteins and Proteomics	L	70	30	4	V	MJC	Biochemistry	2022-23
29	BCBLMJ5P06	Lab-VI (BCBLMJ5002)	L	40	60	2	V	MJC	Biochemistry	2022-23
30	BCBLMO5003	Molecular Basis of Non-Infectious Human Diseases	L	70	30	4	V	MJO	Biochemistry	2022-23
31	BCBLMO5P01	Lab-I (BCBLMO5003)	L	40	60	2	V	MJO	Biochemistry	2022-23
32	BCBLMO5004	Biochemical Techniques	L	70	30	4	V	MJO	Biochemistry	2022-23
33	BCBLMO5P02	Lab-II (BCBLMO5004)	L	40	60	2	V	MJO	Biochemistry	2022-23
34	BCBLNO5005	Protein Purification Techniques	L	70	30	4	V	MNO	Biochemistry	2022-23
35	BCBLNO5P01	Lab-I (BCBLNO5005)	L	40	60	2	V	MNO	Biochemistry	2022-23
36	BCBLNO5006	Tools and Techniques in Biochemistry	L	70	30	4	V	MNO	Biochemistry	2022-23

37	BCBLNO5P02	Lab-II (BCBLNO5006)	L	40	60	2	V	MNO	Biochemistry	2022-23
38	BCBLMJ6001	Recombinant DNA Technology	L	70	30	4	VI	MJC	Biochemistry	2022-23
39	BCBLMJ6P07	Lab-VII (BCBLMJ6001)	L	40	60	2	VI	MJC	Biochemistry	2022-23
40	BCBLMJ6002	Molecular Biology	L	70	30	4	VI	MJC	Biochemistry	2022-23
41	BCBLMJ6P08	Lab-VIII (BCBLMJ6002)	L	40	60	2	VI	MJC	Biochemistry	2022-23
42	BCBLMO6003	Biosafety & Bioethics	L	70	30	4	VI	MJO	Biochemistry	2022-23
43	BCBLMO6P03	Lab-III (BCBLMO6003)	L	40	60	2	VI	MJO	Biochemistry	2022-23
44	BCBLMO6004	Nutritional Biochemistry	L	70	30	4	VI	MJO	Biochemistry	2022-23
45	BCBLMO6P04	Lab-IV (BCBLMO6004)	L	40	60	2	VI	MJO	Biochemistry	2022-23
46	BCBLNO6005	Genetic Engineering	L	70	30	4	VI	MNO	Biochemistry	2022-23
47	BCBLNO6P03	Lab-III (BCBLNO6005)	L	40	60	2	VI	MNO	Biochemistry	2022-23
48	BCBLNO6006	Nucleic Acid Biochemistry	L	70	30	4	VI	MNO	Biochemistry	2022-23
49	BCBLNO6P04	Lab-IV (BCBLNO6006)	L	40	60	2	VI	MNO	Biochemistry	2022-23
50	BCBLMJ7101	Bioinformatics	L	70	30	4	VII (H)	MJC	Biochemistry	2022-23
51	BCBLMJ7P09	Lab-IX (BCBLMJ7101)	L	40	60	2	VII (H)	MJC	Biochemistry	2022-23
52	BCBLMJ7001	Concepts in Genetics I	L	70	30	2	VII (H)	MJC	Biochemistry	2022-23
53	BCBLMJ7002	Bioenergetics	L	70	30	2	VII (H)	MJC	Biochemistry	2022-23
54	BCBLMJ7P10	Lab-X (BCBLMJ7001/7002)	L	40	60	2	VII (H)	MJC	Biochemistry	2022-23
55	BCBLMJ7003	Molecular Toxicology	L	70	30	4	VII (H)	GNE	Biochemistry	2022-23
56	BCBLMJ7004	Fundamentals of Toxicology	L	70	30	4	VII (H)	GNE	Biochemistry	2022-23

57	BCBLMJ7005	Research Methodology	L	70	30	2	VII (H)	VOC	Biochemistry	2022-23
58	BCBLMJ7S01	Seminar	L	40	60	4	VII (H)	SEM	Biochemistry	2022-23
59	BCBLMJ8101	Advanced Metabolism and Integration	L	70	30	4	VIII (H)	MJC	Biochemistry	2022-23
60	BCBLMJ8P11	Lab-XI (BCBLMJ8101)	L	40	60	2	VIII (H)	MJC	Biochemistry	2022-23
61	BCBLMJ8001	Concepts in Genetics II	L	70	30	2	VIII (H)	MJC	Biochemistry	2022-23
62	BCBLMJ8002	Trends in Biotechnology	L	70	30	2	VIII (H)	MJC	Biochemistry	2022-23
63	BCBLMJ8P12	Lab-XII (BCBLMJ8001/8002)	L	40	60	2	VIII (H)	MJC	Biochemistry	2022-23
64	BCBLMJ8003	Molecular Cell Biology	L	70	30	4	VIII (H)	GNE	Biochemistry	2022-23
65	BCBLMJ8004	Concepts in Human Physiology	L	70	30	4	VIII (H)	GNE	Biochemistry	2022-23
66	BCBLMJ8D01	Poster Presentation / Community Outreach	L	40	60	6	VIII (H)	Project	Biochemistry	2022-23
67	BCBLMJ7102	Introductory Bioinformatics	L	70	30	2	VII (R)	MJC	Biochemistry	2022-23
68	BCBLMJ7P13	Lab-XIII (BCBLMJ7102)	L	40	60	2	VII (R)	MJC	Biochemistry	2022-23
69	BCBLMJ7001	Concepts in Genetics I	L	70	30	2	VII (R)	MJC	Biochemistry	2022-23
70	BCBLMJ7002	Bioenergetics	L	70	30	2	VII (R)	MJC	Biochemistry	2022-23
71	BCBLMJ7P10	Lab-X (BCBLMJ7001/7002)	L	40	60	2	VII (R)	MJC	Biochemistry	2022-23
72	BCBLMJ7003	Molecular Toxicology	L	70	30	4	VII (R)	GNE	Biochemistry	2022-23
73	BCBLMJ7004	Fundamentals of Toxicology	L	70	30	4	VII (R)	GNE	Biochemistry	2022-23
74	BCBLMJ7005	Research Methodology	L	70	30	4	VII (R)	VOC	Biochemistry	2022-23
75	BCBLMJ7D01	Dissertation	L	40	60	4	VII (R)	DISS	Biochemistry	2022-23
76	BCBLMJ8103	Plant Biochemistry	L	70	30	2	VIII (R)	MJC	Biochemistry	2022-23

77	BCBLMJ8P15	Lab-XV (BCBLMJ8103)	L	40	60	2	VIII (R)	MJC	Biochemistry	2022-23
78	BCBLMJ8001	Concepts in Genetics II	L	70	30	2	VIII (R)	MJC	Biochemistry	2022-23
79	BCBLMJ8002	Trends in Biotechnology	L	70	30	2	VIII (R)	MJC	Biochemistry	2022-23
80	BCBLMJ8P12	Lab-XII (BCBLMJ8001/8002)	L	40	60	2	VIII (R)	MJC	Biochemistry	2022-23
81	BCBLMJ8003	Molecular Cell Biology	L	70	30	4	VIII (R)	GNE	Biochemistry	2022-23
82	BCBLMJ8004	Concepts in Human Physiology	L	70	30	4	VIII (R)	GNE	Biochemistry	2022-23
83	BCBLMJ8D02	Project/ Dissertation	L	40	60	8	VIII (R)	DISS	Biochemistry	2022-23

**Compiled by National Education Policy (NEP) Cell, Controller of Examinations**