

Department of Chemistry
FYUP Course Structure

S.No.	Course Code	Title of the course	Faculty Code	End Sem marks	Sessional Marks	Credits	Part/ Semester	Course Category	Department	Session/ Year of Introduction
1	2	3	4	5	6	7	8	9	10	11
1	CHBSMJ1001	States of matter	S	70	30	2	I	MJC	CHEM	2022-23
2	CHBSMJ1002	Atomic Structure, Periodic Properties and Chemical bonding	S	70	30	4	I	MJC	CHEM	2022-23
3	CHBSMJ1P01	Chemistry Lab-I	S	40	60	2	I	MJC	CHEM	2022-23
4	CHBSMN1003	Basic Organic Chemistry	S	70	30	4	I	MNC	CHEM	2022-23
5	CHBSMN1P01	Basic Chemistry Lab-I	S	40	60	2	I	MNC	CHEM	2022-23
6	CHBSGE1004	Fundamentals of Physical Chemistry	S	70	30	4	I	GNE	CHEM	2022-23
7	CHBSMJ2001	Foundation Course of Organic Chemistry	S	70	30	4	II	MJC	CHEM	2022-23
8	CHBSMJ2002	Chemistry of Noble gases, d-block elements and Coordination chemistry	S	70	30	2	II	MJC	CHEM	2022-23
9	CHBSMJ2P02	Chemistry Lab -II	S	40	60	2	II	MJC	CHEM	2022-23
10	CHBSMN2003	Basic Physical Chemistry	S	70	30	4	II	MNC	CHEM	2022-23
11	CHBSMN2P02	Basic Chemistry Lab-II	S	40	60	2	II	MNC	CHEM	2022-23
12	CHBSGE2004	Fundamentals of Inorganic Chemistry	S	70	30	4	II	GNE	CHEM	2022-23
13	CHBSMJ3001	Thermodynamics and Electrochemistry	S	70	30	4	III	MJC	CHEM	2022-23
14	CHBSMJ3002	Oxygen Containing Organic Compounds	S	70	30	2	III	MJC	CHEM	2022-23
15	CHBSMJ3P03	Chemistry Lab -III	S	40	60	2	III	MJC	CHEM	2022-23
16	CHBSMN3003	Basic Inorganic Chemistry	S	70	30	4	III	MNC	CHEM	2022-23
17	CHBSMN3P03	Basic Chemistry Lab-III	S	40	60	2	III	MNC	CHEM	2022-23
18	CHBSGE3004	Fundamentals of Organic Chemistry	S	70	30	4	III	GNE	CHEM	2022-23
19	CHBSVA3005	Pharmaceutical Chemistry	S	70	30	2	III	VAC	CHEM	2022-23
20	CHBSVO3006	Electro Chemical Energy Devices	S	70	30	2	III	VOC	CHEM	2022-23
21	CHBSMJ4001	Heterocycles, Biomolecules, Chemical Kinetics and Equilibria	S	70	30	4	IV	MJC	CHEM	2022-23
22	CHBSMJ4002	Chemistry of f-block elements and Concept of acids and bases	S	70	30	2	IV	MJC	CHEM	2022-23
23	CHBSMJ4P04	Chemistry Lab-IV	S	40	60	2	IV	MJC	CHEM	2022-23
24	CHBSMN4003	Concepts of Chemistry	S	70	30	4	IV	MNC	CHEM	2022-23
25	CHBSMN4P04	Basic Chemistry Lab-IV	S	40	60	2	IV	MNC	CHEM	2022-23
26	CHBSGE4004	General Chemistry	S	70	30	4	IV	GNE	CHEM	2022-23
27	CHBSVA4005	Monitoring of air pollution	S	70	30	2	IV	VAC	CHEM	2022-23
28	CHBSMJ5001	Analytical Chemistry-I	S	70	30	4	V	MJC	CHEM	2022-23
29	CHBSMJ5002	Advance Organic Chemistry	S	70	30	4	V	MJC	CHEM	2022-23
30	CHBSMJ5P05	Chemistry Lab-V	S	40	60	4	V	MJC	CHEM	2022-23

31	CHBSXO5003	Environmental Analytical Chemistry	S	70	30	4	V	MNO	CHEM	2022-23
32	CHBSXO5004	Medicinal Chemistry	S	70	30	4	V	MNO	CHEM	2022-23
33	CHBSXO5005	Green Chemistry	S	70	30	4	V	MNO	CHEM	2022-23
34	CHBSXO5006	Molecules of life	S	70	30	2	V	MNO	CHEM	2022-23
35	CHBSXO5007	Mathematics for chemist	S	70	30	2	V	MNO	CHEM	2022-23
36	CHBSMJ6001	Theory, electronic and magnetic properties of transition metal complexes	S	70	30	4	VI	MJC	CHEM	2022-23
37	CHBSMJ6002	Quantum Chemistry and spectroscopy	S	70	30	4	VI	MJC	CHEM	2022-23
38	CHBSMJ6P06	Chemistry Lab-VI	S	40	60	4	VI	MJC	CHEM	2022-23
39	CHBSXO6003	Material Chemistry	S	70	30	4	VI	MNO	CHEM	2022-23
40	CHBSXO6004	Instrumental Analysis	S	70	30	4	VI	MNO	CHEM	2022-23
41	CHBSXO6005	Computational Chemistry	S	70	30	2	VI	MNO	CHEM	2022-23
42	CHBSXO6006	Organic Molecules in Everyday Life	S	70	30	2	VI	MNO	CHEM	2022-23
43	CHBSXO6007	Intellectual Property Rights (IPR)	S	70	30	2	VI	MNO	CHEM	2022-23
44	CHBSXO6008	Pharmaceutical Analysis	S	70	30	2	VI	MNO	CHEM	2022-23
45	CHBSMJ7101	Inorganic Polymers Metalloenzymes and Inorganic Catalysis	S	70	30	4	VII (H)	MJC	CHEM	2022-23
46	CHBSMJ7102	Advanced Physical Chemistry	S	70	30	4	VII (H)	MJC	CHEM	2022-23
47	CHBSMJ7P07	Chemistry Lab-VII	S	40	60	4	VII (H)	MJC	CHEM	2022-23
48	CHBSMJ7103	Bio-Inorganic and Bio-Physical Chemistry	S	70	30	4	VII (H)	GNE	CHEM	2022-23
49	CHBSMJ7104	Research Methodology	S	70	30	2	VII (H)	VOC	CHEM	2022-23
50	CHBSMJ7S01	Seminar	S	40	60	4	VII (H)	SEM	CHEM	2022-23
51	CHBSMJ8101	Organic Reaction Mechanisms-I	S	70	30	4	VIII (H)	MJC	CHEM	2022-23
52	CHBSMJ8102	Analytical Chemistry-II	S	70	30	4	VIII (H)	MJC	CHEM	2022-23
53	CHBSMJ8P08	Chemistry Lab-VIII	S	40	60	4	VIII (H)	MJC	CHEM	2022-23
54	CHBSMJ8103	Bio-Analytical and Bio-Organic Chemistry -I	S	70	30	4	VIII (H)	GNE	CHEM	2022-23
55	CHBSMJ8D01	Dissertation	S	40	60	6	VIII (H)	DISS	CHEM	2022-23
56	CHBSMJ7105	Organic Reaction Mechanisms-II	S	70	30	4	VII (R)	MJC	CHEM	2022-23
57	CHBSMJ7106	Analytical Chemistry -III	S	70	30	4	VII (R)	MJC	CHEM	2022-23
58	CHBSMJ7P09	Chemistry Lab-IX	S	40	60	2	VII (R)	MJC	CHEM	2022-23
59	CHBSMJ7107	Bio-Analytical and Bio-Organic Chemistry -II	S	70	30	4	VII (R)	GNE	CHEM	2022-23
60	CHBSMJ7108	Research Methodology	S	70	30	4	VII (R)	VOC	CHEM	2022-23
61	CHBSMJ7D01	Dissertation	S	40	60	4	VII (R)	Dis/Sem.	CHEM	2022-23
62	CHBSMJ8104	Chemistry of Metallocenes and Supramolecular chemistry	S	70	30	4	VIII (R)	MJC	CHEM	2022-23
63	CHBSMJ8105	Advanced Physical Chemistry	S	70	30	4	VIII (R)	MJC	CHEM	2022-23

64	CHBSMJ8106	Advances in Specific Research Area	S	70	30	2	VIII (R)	MJC	CHEM	2022-23
65	CHBSMJ8107	Bio-physical and Bio-inorganic Chemistry	S	70	30	4	VIII (R)	GNE	CHEM	2022-23
66	CHBSMJ8D02	Dissertation	S	40	60	8	VIII (R)	DISS	CHEM	2022-23

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