

**Department of Geology**  
**FYUP Course Structure**

S.No.	Course Code	Title of the Course	Faculty Code	End Semester Marks	Sessional Marks	Credits	Part/ Semester	Course category	Department	Session/ Year of Introduction
1	2	3	4	5	6	7	8	9	10	
1	GLBSMJ1001	Earth System Science	S	70	30	4	I	MJC	Geology	2022-23
2	GLBSMJ1002	Mineral Science	S	70	30	2	I	MJC	Geology	2022-23
3	GLBSMJ1P01	LAB-I (GLBSMJ1001/GLBSMJ1002)	S	40	60	2	I	MJC	Geology	2022-23
4	GLBSMN1003	Physical Geology	S	70	30	4	I	MNC	Geology	2022-23
5	GLBSMN1P01	LAB-I (GLBSMN1003)	S	40	60	2	I	MNC	Geology	2022-23
6	GLBSGE1004	Fundamentals of Geology	S	70	30	4	I	GNE	Geology	2022-23
7	GLBSMJ2001	Petrology	S	70	30	4	II	MJC	Geology	2022-23
8	GLBSMJ2002	Earth's Dynamic Processes	S	70	30	2	II	MJC	Geology	2022-23
9	GLBSMJ2P02	LAB-II (GLBSMJ2001/2002)	S	40	60	2	II	MJC	Geology	2022-23
10	GLBSMN2003	Introductory Petrology	S	70	30	4	II	MNC	Geology	2022-23
11	GLBSMN2P02	LAB-II (GLBSMN2003)	S	40	60	2	II	MNC	Geology	2022-23
12	GLBSGE2004	Planetary Geology	S	70	30	4	II	GNE	Geology	2022-23

13	GLBSMJ3001	Stratigraphy	S	70	30	4	III	MJC	Geology	2022-23
14	GLBSMJ3002	Paleobiology	S	70	30	2	III	MJC	Geology	2022-23
15	GLBSMJ3P03	LAB-III (GLBSMJ3001/3002)	S	40	60	2	III	MJC	Geology	2022-23
16	GLBSMN3003	Historical Geology	S	70	30	4	III	MNC	Geology	2022-23
17	GLBSMN3P03	LAB-III (GLBSMN3003)	S	40	60	2	III	MNC	Geology	2022-23
18	GLBSGE3004	Global Climate Change	S	70	30	4	III	GNE	Geology	2022-23
19	GLBSMJ4001	Earth's Processes and Resources	S	70	30	4	IV	MJC	Geology	2022-23
20	GLBSMJ4002	Mineral Economics	S	70	30	2	IV	MJC	Geology	2022-23
21	GLBSMJ4P04	LAB-IV (GLBSMJ4001/4002)	S	40	60	2	IV	MJC	Geology	2022-23
22	GLBSMN4003	Mineral Resources of India	S	70	30	4	IV	MNC	Geology	2022-23
23	GLBSMN4P04	LAB-IV (GLBSMN4003)	S	40	60	2	IV	MNC	Geology	2022-23
24	GLBSGE4004	Renewable & Non- Renewable Resources	S	70	30	4	IV	GNE	Geology	2022-23
25	GLBSMJ5001	Igneous & Sedimentary Petrology	S	70	30	4	V	MJC	Geology	2022-23
26	GLBSMJ5002	Structural Geology	S	70	30	2	V	MJC	Geology	2022-23
27	GLBSMJ5003	Natural Environment and Remote Sensing	S	70	30	2	V	MJC	Geology	2022-23
28	GLBSMJ5P05	Practical Geological Field/Industrial/Laboratory Training	S	40	60	2	V	MJC	Geology	2022-23
29	GLBSMJ5P06	Practical Lab for Igneous Petrology, Structural Geology, Sedimentary Geology & Natural Environment and Remote Sensing	S	40	60	2	V	MJC	Geology	2022-23

30	GLBSMO5004	Disaster Management	S	70	30	4	V	MJO	Geology	2022-23
31	GLBSMO5005	Geological Field Techniques	S	70	30	4	V	MJO	Geology	2022-23
32	GLBSNO5006	Geoinformatics	S	70	30	2	V	MNO	Geology	2022-23
33	GLBSNO5007	Geostatistics	S	70	30	2	V	MNO	Geology	2022-23
34	GLBSXO5008	Marine Geology	S	70	30	2	V	MNO	Geology	2022-23
35	GLBSVO5009	Gem Testing	S	70	30	2	V	VOC	Geology	2022-23
36	GLBSMJ6001	Metamorphic Petrology & Geochemistry	S	70	30	4	VI	MJC	Geology	2022-23
37	GLBSMJ6002	Energy Resources and Mineral Exploration	S	70	30	2	VI	MJC	Geology	2022-23
38	GLBSMJ6003	Applied Geology	S	70	30	2	VI	MJC	Geology	2022-23
39	GLBSMJ6004	Geological Lab Techniques and Instrumentation	S	70	30	2	VI	MJC	Geology	2022-23
40	GLBSMJ6P07	LAB-VII (GLBSMJ6001/6002/6003/6004)	S	40	60	2	VI	MJC	Geology	2022-23
41	GLBSMO6005	Water Resource Management	S	70	30	4	VI	MJO	Geology	2022-23
42	GLBSMO6006	Rock Deformation and Structural Analysis	S	70	30	4	VI	MJO	Geology	2022-23
43	GLBSXO6007	Geophysical Exploration	S	70	30	2	VI	MNO	Geology	2022-23
44	GLBSXO6008	Glaciology	S	70	30	2	VI	MNO	Geology	2022-23
45	GLBSXP6009	Medical Geology	S	70	30	2	VI	MNO	Geology	2022-23
46	GLBSVO6010	Soil, Water and Rock Testing	S	70	30	2	VI	VOC	Geology	2022-23
47	GLBSMJ7001	Economic Geology	S	70	30	4	VII (H)	MJC	Geology	2022-23

48	GLBSMJ7002	Hydrogeology	S	70	30	2	VII (H)	MJC	Geology	2022-23
49	GLBMJ7003	Mineralogy	S	70	30	2	VII (H)	MJC	Geology	2022-23
50	GLBSMJ7004	Geodynamics	S	70	30	2	VII (H)	MJC	Geology	2022-23
51	GLBSMJ7P08	LAB-VIII (GLBSMJ7001/7002/7003/7004)	S	40	60	2	VII (H)	MJC	Geology	2022-23
52	GLBSMJ7101	Research Methodology-I	S	70	30	2	VII (H)	VOC	Geology	2022-23
53	GLBSMJ7005	Soil Mechanics	S	70	30	4	VII (H)	GNE	Geology	2022-23
54	GLBSMJ7006	Urban Geology	S	70	30	4	VII (H)	GNE	Geology	2022-23
55	GLBSMJ7007	Petroleum Exploration	S	70	30	4	VII (H)	GNE	Geology	2022-23
56	GLBSMJ7008	Oceanography	S	70	30	4	VII (H)	GNE	Geology	2022-23
57	GLBSMJ7009	Environmental Geology	S	70	30	4	VII (H)	GNE	Geology	2022-23
58	GLBSMJ7010	Coal Petrology	S	70	30	4	VII (H)	GNE	Geology	2022-23
59	GLBSMJ7011	Neotectonics	S	70	30	4	VII (H)	GNE	Geology	2022-23
60	GLBSMJ7S01	Seminar	S	40	60	4	VII (H)	Seminar	Geology	2022-23
61	GLBSMJ8001	Well Hydraulics and Water Chemistry	S	70	30	4	VIII (H)	MJC	Geology	2022-23
62	GLBSMJ8002	Engineering Geology	S	70	30	2	VIII (H)	MJC	Geology	2022-23
63	GLBSMJ8003	Isotope Geochemistry	S	70	30	2	VIII (H)	MJC	Geology	2022-23
64	GLBSMJ8004	Remote Sensing and GIS	S	70	30	2	VIII (H)	MJC	Geology	2022-23
65	GLBSMJ8P09	LAB-IX (GLBSMJ8001/8002/8003/8004)	S	40	60	2	VIII (H)	MJC	Geology	2022-23

66	GLBSMJ8005	Advance Hydrogeology	S	70	30	4	VIII (H)	GNE	Geology	2022-23
67	GLBSMJ8006	Geospatial Science	S	70	30	4	VIII (H)	GNE	Geology	2022-23
68	GLBSMJ8007	Exploration Geochemistry	S	70	30	4	VIII (H)	GNE	Geology	2022-23
69	GLBSMJ8008	Applied Sedimentation	S	70	30	4	VIII (H)	GNE	Geology	2022-23
70	GLBSMJ8009	Quaternary Geology	S	70	30	4	VIII (H)	GNE	Geology	2022-23
71	GLBSMJ8010	Geotechnical Engineering	S	70	30	4	VIII (H)	GNE	Geology	2022-23
72	GLBSMJ8P01	Project / Internship / Community Engagement & Services	S	40	60	6	VIII (H)	Project	Geology	2022-23
73	GLBSMJ7001	Economic Geology	S	70	30	4	VII (R)	MJC	Geology	2022-23
74	GLBSMJ7002	Hydrogeology	S	70	30	2	VII (R)	MJC	Geology	2022-23
75	GLBSMJ7003	Mineralogy	S	70	30	2	VII (R)	MJC	Geology	2022-23
76	GLBSMJ7004	Geodynamics	S	70	30	2	VII (R)	MJC	Geology	2022-23
77	GLBSMJ7103	Research Methodology-II	S	70	30	4	VII (R)	VOC	Geology	2022-23
78	GLBSMJ7005	Soil Mechanics	S	70	30	4	VII (R)	GNE	Geology	2022-23
79	GLBSMJ7006	Urban Geology	S	70	30	4	VII (R)	GNE	Geology	2022-23
80	GLBSMJ7007	Petroleum Exploration	S	70	30	4	VII (R)	GNE	Geology	2022-23
81	GLBSMJ7008	Oceanography	S	70	30	4	VII (R)	GNE	Geology	2022-23
82	GLBSMJ7009	Environmental Geology	S	70	30	4	VII (R)	GNE	Geology	2022-23
83	GLBSMJ7010	Coal Petrology	S	70	30	4	VII (R)	GNE	Geology	2022-23

84	GLBSMJ7011	Neotectonics	S	70	30	4	VII (R)	GNE	Geology	2022-23
85	GLBSMJ7D01	Dissertation	S	40	60	4	VII (R)	DISS	Geology	2022-23
86	GLBSMJ8001	Well Hydraulics and Water Chemistry	S	70	30	4	VIII (R)	MJC	Geology	2022-23
87	GLBSMJ8002	Engineering Geology	S	70	30	2	VIII (R)	MJC	Geology	2022-23
88	GLBSMJ8003	Isotope Geochemistry	S	70	30	2	VIII (R)	MJC	Geology	2022-23
89	GLBSMJ8004	Remote Sensing and GIS	S	70	30	2	VIII (R)	MJC	Geology	2022-23
90	GLBSMJ8005	Advance Hydrogeology	S	70	30	4	VIII (R)	GNE	Geology	2022-23
91	GLBSMJ8006	Geospatial Science	S	70	30	4	VIII (R)	GNE	Geology	2022-23
92	GLBSMJ8007	Exploration Geochemistry	S	70	30	4	VIII (R)	GNE	Geology	2022-23
93	GLBSMJ8008	Applied Sedimentation	S	70	30	4	VIII (R)	GNE	Geology	2022-23
94	GLBSMJ8009	Quaternary Geology	S	70	30	4	VIII (R)	GNE	Geology	2022-23
95	GLBSMJ8010	Geotechnical Engineering	S	70	30	4	VIII (R)	GNE	Geology	2022-23
96	GLBSMJ8D01	Dissertation	S	40	60	8	VIII (R)	DISS	Geology	2022-23

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