

Template for JRF (AGL)

First Semester (Monsoon)

Sl. No.	Designation	Course Code	Subject Name	L-T-P	Credit
1.	DC-1	GLC591	Research Methodology	3-0-0	9
2.	DC-2	GLC505	Mathematics for Geoscientists	3-0-0	9
3.	DC-3	GLC592	Programming in MATLAB	3-0-0	9
4.	DC-4	GLC502	Applied Geochemistry	3-0-0	9
5.	IC	HSI500	Research and Technical Communication	3-0-0	S/X

Second Semester (Winter)

Sl. No.	Designation	Course Code	Subject Name	L-T-P	Credit
1.	DE-1			3-0-0	9
2.	DE-2			3-0-0	9
3.	DE-3/OE-1			3-0-0	9
4.	DE-4/OE-2			3-0-0	9

** Students with B.Tech degree or M.Tech in non-relevant field require two additional DC courses.

Third Semester (Monsoon)

Sl. No.	Designation	Course Code	Subject Name	L-T-P	Credit
1	TU-1	GLC551	Thesis Unit-1	0-0-0	9
2.	TU-2	GLC552	Thesis Unit-2	0-0-0	9
3.	TU-3	GLC553	Thesis Unit-3	0-0-0	9
4.	TU-4	GLC554	Thesis Unit-4	0-0-0	9

Fourth Semester (Winter)

Sl. No.	Designation	Course Code	Subject Name	L-T-P	Credit
1	TU-5	GLC555	Thesis Unit-5	0-0-0	9
2.	TU-6	GLC556	Thesis Unit-6	0-0-0	9
3.	TU-7	GLC557	Thesis Unit-7	0-0-0	9
4.	TU-8	GLC558	Thesis Unit-8	0-0-0	9

Fifth Semester (Monsoon)

Sl. No.	Designation	Course Code	Subject Name	L-T-P	Credit
1	TU-9	GLC559	Thesis Unit-9	0-0-0	9
2.	TU-10	GLC560	Thesis Unit-10	0-0-0	9
3.	TU-11	GLC561	Thesis Unit-11	0-0-0	9
4.	TU-12	GLC562	Thesis Unit-12	0-0-0	9

Sixth Semester (Winter)

Sl. No.	Designation	Course Code	Subject Name	L-T-P	Credit
1	TU-13	GLC563	Thesis Unit-13	0-0-0	9
2.	TU-14	GLC564	Thesis Unit-14	0-0-0	9
3.	TU-15	GLC565	Thesis Unit-15	0-0-0	9
4.	TU-16	GLC566	Thesis Unit-16	0-0-0	9

Seventh Semester (Monsoon)

Sl. No.	Designation	Course Code	Subject Name	L-T-P	Credit
1	TU-17	GLC567	Thesis Unit-17	0-0-0	9
2.	TU-18	GLC568	Thesis Unit-18	0-0-0	9
3.	TU-19	GLC569	Thesis Unit-19	0-0-0	9
4.	TU-20	GLC570	Thesis Unit-20	0-0-0	9

Eighth Semester (Winter)

Sl. No.	Designation	Course Code	Subject Name	L-T-P	Credit
1	TU-21	GLC571	Thesis Unit-21	0-0-0	9
2.	TU-22	GLC572	Thesis Unit-22	0-0-0	9
3.	TU-23	GLC573	Thesis Unit-23	0-0-0	9
4.	TU-24	GLC574	Thesis Unit-24	0-0-0	9

**Table 1: List of Departmental Electives
(Offered in the current Winter Semester 2020-2021)**

**[These courses and their syllabi are from the courses structures of M.Sc.Tech. (AGL),
M.Tech. (GEX) and M.Tech. (EGL)]**

Sl. No.	Designation	Course Code	Course Name
1.	DE-1	GLD571	Petroleum Exploration and Micropaleontology
2.		GLD591	Rock Slope Engineering
3.		GLD570	Hyperspectral Remote Sensing
4.		GLD530	Geodynamics
5.	DE-2	GLC509	Igneous Petrology
6.		GLD540	Geomorphology
7.		GLD572*	Advanced Geostatistics and Exploration Economics*
8.		GPD550	Geophysical Methods of Coal Exploration
9.	DE-3	GLD578	Rock Deformation Kinematics for Engineering Geology
10.		GLD575	Modern Instrumental Methods in Exploration Geosciences
11.		GLC510	Metamorphic Petrology
12.		GLD528	Geotechnical Engineering
13.	OE-1	GPO503	Artificial Intelligence and Machine Learning in Geosciences
14.	DE-4/OE-2	GLD594	Geotechniques of Dams, Tunnels and Underground Space
15.		GLD592	Environmental Geotechnology

*This course requires a prerequisite course in Resource Evaluation and Geostatistics (GLC559)