

DEPARTMENT OF EARTH SCIENCES

M.Sc. (Applied Geology)

[illegible]

Program Elective Courses (M.Sc. (Applied Geology))

Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weight (%)				
S. No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
		ELECTIVES – I, II and III												
1.	ESN-601	Himalayan Geology	PEC	4	3	1	0	3	0	25	-	25	50	-
2.	ESN-602	Computational Thermodynamic Modelling	PEC	4	3	1	0	3	0	25	-	25	50	-
3.	ESN-603	Isotope Geology	PEC	4	3	1	0	3	0	25	-	25	50	-
4.	ESN-604	Coal Geology	PEC	4	3	1	0	3	0	25	-	25	50	-
5.	ESN-605	Paleoecology	PEC	4	3	1	0	3	0	25	-	25	50	-
6.	ESN-606	Indian Mineral Deposits	PEC	4	3	1	0	3	0	25	-	25	50	-
7.	ESN-607	Engineering Geology	PEC	4	3	1	0	3	0	25	-	25	50	-
8.	ESN-608	Mineral Exploration and Mining Geology	PEC	4	3	1	0	3	0	25	-	25	50	-
9.	ESN-609	Petroleum Geology	PEC	4	3	1	0	3	0	25	-	25	50	-
10.	ESN-610	Well Logging	PEC	4	3	1	0	3	0	25	-	25	50	-
11.	ESN-611	Plate Tectonics	PEC	4	3	1	0	3	0	25	-	25	50	-
		ELECTIVE – IV												
1.	ESN-620	Reservoir Geomechanics	PEC	4	3	1	0	3	0	25	-	25	50	-
2.	ESN-621	Principles of GIS	PEC	4	3	1	0	3	0	25	-	25	50	-
3.	ESN-622	Carbonate Sedimentology	PEC	4	3	1	0	3	0	25	-	25	50	-
4.	ESN-623	Marine Geology	PEC	4	3	1	0	3	0	25	-	25	50	-
5.	ESN-624	Mineral Economics	PEC	4	3	1	0	3	0	25	-	25	50	-
6.	ESN-625	Basin Analysis	PEC	4	3	1	0	3	0	25	-	25	50	-
7.	ESN-626	Remote Sensing	PEC	4	3	1	0	3	0	25	-	25	50	-
8.	ESN-627	Contaminant Hydrogeology	PEC	4	3	1	0	3	0	25	-	25	50	-
9.	ESN-628	Field Geology	PEC	3	0	0	6	0	6	-	50	-	-	50

Pre Ph.D. Courses

1	ESN-901	Advanced Magnetotelluric Methods	PEC	04	3	1	0	3	0	20-35	-	20-30	40-50	-
2	ESN-902	Sequence Stratigraphy	PEC	04	3	1	0	3	0	20-35	-	20-30	40-50	-
3	ESN-903	Principles of Numerical Geophysical Modeling	PEC	04	3	1	0	3	0	20-35	-	20-30	40-50	-
4	ESN-904	Experimental and Analytical Techniques applied in Geosciences	PEC	04	3	1	0	3	0	20-35	-	20-30	40-50	-

5	ESN-905	Reservoir Formation Evaluation	PEC	04	3	1	0	3	0	20-35	-	20-30	40-50	-
6	ESN-906	Rock Mechanics	PEC	04	3	1	0	3	0	20-35	-	20-30	40-50	-
7	ESN-907	Gravity and Magnetic Surveying	PEC	04	3	0	2	3	0	10-25	25	15-25	30-40	-
8	ESN-908	Hydrogeophysics	PEC	04	3	1	0	3	0	20-35	-	20-30	40-50	-
9	ESN-909	Modeling of Strong Motion Data	PEC	04	3	1	0	3	0	20-35	-	20-30	40-50	-