

M.Sc.Tech (AGP)

Semester I				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 1	3 1 0	4	Geophysical Methods	NGPC513
DC 2	3 0 0	3	Mathematical Functional Analysis	NGPC516
DC 3	3 1 0	4	Solid Earth Geophysics	NGPC514
DC 4	3 0 0	3	Physical and Structural Geology	NGLC202
DC 5	3 1 0	4	Remote Sensing Principles	NGPC515
DP 1	0 0 2	1	Remote Sensing Principles Practical	NGPC517
DP 2	0 0 2	1	Mathematical Functional Analysis Practical	NGPC518
DP 3	0 0 2	1	Geophysical Methods Practical	NGPC519
Total Credits 21				

Semester II				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 6	3 0 0	3	Gravity Method	NGPC520
DC 7	3 0 0	3	Earthquake Seismology	NGPC521
DC 8	3 0 0	3	Geoelectrical Methods	NGPC522
DC 9	3 0 0	3	Seismic Data Acquisition	NGPC523
DC 10	3 0 0	3	Economic Geology & Indian Mineral Deposits	NGLC529
DP 1	0 0 2	1	Seismic Data Acquisition Practical	NGPC524
DP 2	0 0 2	1	Gravity and Geoelectrical Method Practical	NGPC525
DP 3	0 0 2	1	Earthquake Seismology Practical	NGPC526
TR1	0 0 0	2.5	Vocational Training / Field Visit / Excursion etc.	NGPC544
Total Credits 20.5				

Semester III				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 11	3 1 0	4	Magnetic Method	NGPC531
DC 12	3 1 0	4	Geothermics and Geodynamics	NGPC532
DC 13	3 0 0	3	Geophysical Inversion	NGPC528
DC 14	3 0 0	3	Seismic Data Processing and Interpretation	NGPC529
DC 15	3 0 0	3	Well logging	NGPC530
DP 7	0 0 2	1	Geophysical Inversion Practical	NGPC533
DP 8	0 0 2	1	Seismic Data Processing and Interpretation Practical	NGPC534
DP 9	0 0 2	1	Well logging Practical	NGPC535
Total Credits 20				

Semester IV				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 16	3 0 0	3	Geoelectromagnetic Method	NGPC536
DC 17	3 0 0	3	Formation Evaluation	NGPC537
DC 18	3 0 0	3	Reservoir Geophysics and Deep-Water Imaging	NGPC538
DC 19	3 0 0	3	Artificial Intelligence and Machine Learning in Geosciences	NGPC539
DC 20	3 0 0	3	Basics of Petroleum Geology & Sedimentology	
DP 10	0 0 2	1	Geoelectromagnetic Method Practical	NGPC540
DP 11	0 0 2	1	Formation Evaluation Practical	NGPC541
TR2	0 0 0	2.5		
Total Credits 20				

Semester V				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 21	3 1 0	4	Groundwater Geophysics	NGPC542
DC 22	3 0 0	3	New subject will be floated	
DE 1	3 0 0	3		
DE 2	3 0 0	3		
RM1	3 0 0	3		
TR3	0 0 0	0 (S/X)		
Total Credits 21				

Semester VI				
Course Type	L-T-P	Credits	Name of the Course	Course Code
TU 1	0 0 0	20	Thesis	NGPC598
Total Credits 20				

M.Tech (Applied Geophysics-Earthquake Science and Engineering)

Semester I				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 1	3 1 0	4	Seismology	NGPC501
DC 2	3 1 0	4	Geotechnical Modelling	NGPC502
DC 3	3 1 0	4	Computational Seismology	NGPC503
DE 1	3 0 0	3	--	
DE 2	3 0 0	3	--	
DP 1	0 0 3	1.5	Geotechnical Modelling Practical	NGPC504
DP 2	0 0 3	1.5	Seismology Practical	NGPC505
DP 3	0 0 3	1.5	Computational Seismology Practical	NGPC506
Total Credits 22.5				

Semester II				
Course Type	L-T-P	Credits	Name of the Course	Course Code
DC 4	3 1 0	4	Remote Sensing: Principles and Data Acquisition System	NGPC507
DC 5	3 1 0	4	Advanced Numerical Methods	NGPC508
DC 6	3 1 0	4	Earthquake Statistics and Hazard	NGPC509
DE 3	3 0 0	3	--	
RM	3 0 0	3	Research Methodology	NGPC595
DP 4	0 0 3	1.5	Remote Sensing: Principles and Data Acquisition System Practical	NGPC510
DP 5	0 0 3	1.5	Advanced Numerical Methods Practical	NGPC511
DP 6	0 0 3	1.5	Earthquake Statistics and Hazard Practical	NGPC512
Total Credits 22.5				

Semester III				
Course Type	L-T-P	Credits	Name of the Course	Course Code
TU 1	0 0 0	20	Thesis	NGPC597
Total Credits 20				

Semester IV				
Course Type	L-T-P	Credits	Name of the Course	Course Code
TU 2	0 0 0	20	Thesis	NGPC598
Total Credits 20				