



DR. RAM MANOHAR LOHIA AVADH UNIVERSITY, AYODHYA

Structure of Syllabus for the Program: M.Sc., Subject: GEOPHYSICS

Structure of Syllabus Developed by			
Name of BoS Convener/ BoS Member	Designation	Department	College/ University
Prof C.K. Mishra	Dean	Faulty of Science	Dr RML Avadh University Ayodhya
Prof. Jaswant Singh	Director	Institute of Earth & Environmental Sciences	Dr RML Avadh University Ayodhya
Dr. R.Bhatla	Professor	Geophysics	BHU, Varanasi
Dr. Uma Shankar	Professor	Geophysics	BHU, Varanasi
Dr. Arvind Kumar	Assistant Professor	Geophysics	Dr RML Avadh University Ayodhya
Dr. Shashi Kant Sah	Assistant Professor	Geophysics	Dr RML Avadh University Ayodhya

Course Code		Course Title	Credits	T/P	Evaluation	
					CIE	ETE
A	B	C	D	E	F	G
SEMESTER I (YEAR I)						
B240701T	CORE	Elements of Environment and Geology	4	T	25	75
B240702T	CORE	Geo-exploration & Surveying	4	T	25	75
B240703T	CORE	General Meteorology	4	T	25	75
B240704T	CORE	General Geophysics	4	T	25	75
B240705T	FIRST ELECTIVE (Subject Elective) (Select any one)	Mathematical and Numerical Methods	4	T	25	75
B240706T		Economic and Petroleum Geology	4	T	25	75
B240707P	SECOND ELECTIVE (Subject Elective) (Select any one)	Practical A	5	P	50	50
B240708P		Field Visit Practical B	5	P	50	50
SEMESTER II (YEAR I)						
B240801T	CORE	Geohydrology	4	T	25	75
B240802T	CORE	Seismology	4	T	25	75
B240803T	CORE	Communication Theory and Signal Processing	4	T	25	75
Note: Any one of the corresponding combinations of Two courses of Group A (Exploration Geophysics) or Group B (Meteorology)						
B240804T	CORE A	Group A: Seismic Methods	4	T	25	75

B240805T	CORE B	Group B: Physical Meteorology	4	T	25	75
B240806T	THIRD ELECTIVE (Generic Elective) (Select any one)	Natural Hazard and Disaster Management	4	T	25	75
B240807T		Computer Programming	4	T	25	75
B240808P	FOURTH ELECTIVE (Subject Elective) (Select any one)	Practical C	5	P	50	50
B240809P		Practical D	5	P	50	50
SEMESTER III (YEAR II)						
Note: Any one of the corresponding combinations of Two courses of Group A (Exploration Geophysics) or Group B (Meteorology)						
B240901T	CORE A	Group A: Geoelectrical Methods.	4	T	25	75
B240902T	CORE B	Group B: Climatology & Climate change	4	T	25	75
B240903T	CORE A	Group A: Gravity and Magnetic Methods	4	T	25	75
B240904T	CORE B	Group B: Agro-meteorology	4	T	25	75
B240905T	CORE A	Group A: Geo-electromagnetic Methods	4	T	25	75
B240906T	CORE B	Group B: Synoptic and Tropical Meteorology	4	T	25	75
B240907T	CORE A	Group A: Well Logging	4	T	25	75
B240908T	CORE B	Group B: Dynamic Meteorology	4	T	25	75
B240909T	FIFTH ELECTIVE (Subject Elective) (Select any one)	Petroleum Geophysics	4	T	25	75
B240910T		Applied Meteorology	4	T	25	75
B240911P	SIXTH ELECTIVE (Subject Elective) (Select any one)	Practical E	5	P	50	50
B240912P		Practical F	5	P	50	50
SEMESTER IV (YEAR II)						
B241001T	CORE	Physical Oceanography and Marine Geophysics	5	T	25	75
B241002T	CORE	Remote Sensing & GIS	5	T	25	75
B241003T	SEVENTH ELECTIVE (Subject Elective) (Select any one)	Stratigraphy	5	T	25	75
B241004T		Advanced Climatology	5	T	25	75
B241005P	RESEARCH PROJECT/ DISSERTATION	Major Research Project/ Dissertation	10	P	50	50