

MTech. By Research (Geoinformatics)

Semester - I

Group	S N	Course Code	Course Name	Type/Area	Credit	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
GROUP A	1	RGEO 501	Research and Publication Ethics (RPE)	UCC	2	2	0	0	25	-	25	50	0	18
	2	RGEO 503	Research Methodology	UCC	4	4	0	0	25	-	25	50	0	
	3	RGEO 505	Probability, Statistics and spatial Information theory	DCC	4	3	1	0	15	25	20	40	0	
	4	RGEO507	Remote Sensing, GIS, Advanced Surveying, Satellite Image Processing Geodesy, and GNSS	DCC	4	3	0	2	25	-	25	50	0	
	5	RGEO 509	Dissertation -1	DCC	4	0	0	4	-	50	-	-	50	

Semester - II

Group	S.No.	Course Code	Course Name	Type/Area	Credit	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
Group B	1	RGEO502	Principles of Optical, Thermal and Hyperspectral Remote Sensing	DCC	4	3	0	2	25	-	25	40	0	22
	2	RGEO504	Microwave and Lidar Remote Sensing	DCC	4	3	0	2	25	-	25	40	0	
	3	RGEO506	Dissertation 2	DCC	6	0	0	6	-	50	-	-	50	

Group C	4	RGEO51402	Elective 1 (see list at the end)	DEC/GEC	4	3	1	0	3	0	25	-	25
	5	RGEO508	Project -1	DEC/GEC	4	4	0	0	25	-	25	50	0

Semester - III

Group	S.No.	Course Code	Course Name	Type/Area	Credit	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
Group D	1	RGEO 601	Project 2	DEC/GEC	4	4	0	0	25	-	25	50	0	16
Group E	4	RGEO 603	Dissertation -3	DCC	12	0	0	12	-	50	-	-	50	

Semester - IV

Group	S.No.	Course Code	Course Name	Type/Area	Credit	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
Group F	1	RGEO 602	Final Dissertation	DCC	4	0	0	24	-	-	-	-	100	24

LIST OF ELECTIVES, PROJECTS AND DISSERTATION

Elective -1: RGEO51402	Geointelligence – Terrain visualization, Trafficability and Target Detection
	RS and GIS in Cryosphere and Water Hydrology Applications
	Smart City, Sustainability and Urban Remote Sensing
	Planetary and Space Sciences – Earth and Beyond
	Advanced Geodesy and GNSS
	Geosciences
Project - 1	Science and Technology behind Earth systems, processes and phenomena
Project - 2	Geostatistics, Data Analytics and Big data Analytics in Geoinformatics
Dissertation - 2	Python, Matlab and GEE in Image Analytics
Dissertation - 2	AI, M and, GeoAlin Geoinformatics
Dissertation 3	Literature Review and Proposal Development
Final Dissertation	Topics to be finalized based on Projects and Dissertaion

