

DELHI TECHNOLOGICAL UNIVERSITY

SCHEME OF TEACHING AND EVALUATION

MASTER OF TECHNOLOGY IN GEOINFORMATICS (GEO)

The following alphanumeric coding scheme has been adopted

Core Courses XXXYMN

Elective Courses XXXYCMN

XXX abbreviates a particular M.Tech. program, Y- (5 for M.Tech. 1 st year, 6 for M.Tech. 2 nd year),

C-credit of the course (4/3/2),

MN- Subject code (Odd number for odd semester and even number for even semester courses)

Semester-I

	S.No.	Course Code (Proposed)	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
Group A	1	GEO501	Remote Sensing, Photogrammetry and Satellite Image Processing	Core	4	3	0	2	15	25	20	40	-	17
	2	GEO503	Introduction to Geographic Information System and Web GIS	Core	4	3	0	2	15	25	20	40	-	
Group B	3	GEO5401/5403/...	Elective 1	Elective	4	3	0	2	15	25	20	40	-	
	4	GEO5301/5303/..	Elective 2	Elective	3	3	0	0	20	-	30	50	-	
	5	GEO5201/5203/... /UEC5201/5203/..	Elective 3/University Elective I	Elective	2	0	0	10	20	-	-		80*	
										40 each for Viva and Report				

Semester-II

	S.No.	Course Code (Proposed)	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
Group C	1	GEO502	Principles of Optical, Thermal and Hyperspectral Remote Sensing	Core	4	3	0	2	15	25	20	40	-	17
	2	GEO504	Microwave and Lidar Remote Sensing	Core	4	3	0	2	15	25	20	40	-	
Group D	3	GEO5402/5404/...	Elective 4	Elective	4	3	0	2	15	25	20	40	-	
	4	GEO5302/5304/..	Elective 5	Elective	3	3	0	0	20	-	30	50	-	
	5	GEO5202/5204/... /UEC5202/5204/..	Elective 6/ University Elective II	Elective	2	2	0	0	20	0	30	50	-	

Semester-III

	S.No.	Course Code (Proposed)	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
	Track 1													12
	1	GEO651	Research Project	Core	12	0	0	12	0	-	0	-	100	
	Track 2													

Group E	1	GEO601	Major Project I	Core	3	0	0	6	-	40	-	-	60	
	2	GEO6401/6403/..	Elective 7	Elective	4	3	0	2	15	25	20	40	-	
	3	GEO6301/6303/..	Elective 8	Elective	3	3	0	0	20	0	30	50	-	
	4	GEO6201/6203/..	Elective 9	Elective	2	2	0	0	20	0	30	50	-	

Semester-IV

	S.No.	Course Code (Proposed)	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits	
Group F	Track 1														
	1	GEO652	Research Project	Core	12	0	0	12	0	-	0	-	100	12	
	Track 2														
	1	GEO602	Major Project II	Core	12	0	0	12	0	40	0	-	60		

	2	SWE5203	Probability and Statistics		2	2	0	0	20	0	30	50	-
	S.No.	Course Code (Proposed)	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 4	1	GEO5402	Advanced Image Processing in Geoinformatics	Elective	4	3	0	2	15	25	20	40	-
	2	SWE5406	Machine Learning		4	3	0	2	15	25	20	40	-
	3	BIO5408	Image Processing in Medicine		4	3	0	2	15	25	20	40	-
	4	SWE5408	Big Data Analytics		4	3	0	2	15	25	20	40	-
	S.No.	Course Code (Proposed)	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 5	1	GEO5302	Modelling and Analysis of Geospatial Data	Elective	3	3	0	0	20	0	30	50	-
	2	CSE5314	Business Intelligence		3	3	0	0	20	0	30	50	-
	3	SWE5306	Pattern Recognition		3	3	0	0	20	-	30	50	-
	S.No.	Course Code (Proposed)	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 6	1	GEO5202	Research Methods and Communication Skills	Elective	2	2	0	0	20	-	30	50	-
	2	SWE5202	Research		2	2	0	0	20	-	30	50	-

			Methodology										
	S.No.	Course Code (Proposed)	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 7	1	GEO6401	Geoinformatics in Target Detection	Elective	4	3	0	2	15	25	20	40	-
	2	GEO6403	Geoinformatics in Geotechnical Engineering and Geohazards		4	3	0	2	15	25	20	40	-
	3	GEO6405	Geoinformatics in Transportation		4	3	0	2	15	25	20	40	-
	4	GEO6407	Geoinformatics in hydrology and Glaciology		4	3	0	2	15	25	20	40	-
	S.No.	Course Code (Proposed)	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 8	1	GEO6301	Geoinformatics in Disaster Management	Elective	3	3	0	0	20	0	30	50	-
	2	GEO6303	Geoinformatics in Health Care		3	3	0	0	20	0	30	50	-
	3	GEO6305	Geoinformatics in Geosciences		3	3	0	0	20	0	30	50	-
	S.No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 9	1	GEO6201	Geoinformatics in Atmosphere and Oceanic Studies	Elective	2	2	0	0	20	0	30	50	-

	2	GEO6203	Geoinformatics in Agriculture		2	2	0	0	20	0	30	50	-
	3	GEO6205	Geoinformatics Urban Planning and Infrastructure		2	2	0	0	20	0	30	50	-
	4	GEO6207	Design and Development of Sensors for Remote Sensing		2	2	0	0	20	0	30	50	-