

DELHI TECHNOLOGICAL UNIVERSITY

SCHEME OF TEACHING AND EVALUATION

MASTER OF TECHNOLOGY IN GEOTECHNICAL ENGINEERING (GTE)

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	Course Name	Type/ Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
Group A	1	GTE501	Advanced Soil mechanics	Core	4	3	0	2	15	25	20	40	-	17
	2	GTE503	Advance Foundation Engineering	Core	4	3	0	2	15	25	20	40	-	
Group B	3	GTE5401/5403/...	Elective 1	Elective	4	3	0	2	15	25	20	40	-	
	4	GTE5301/5303/...	Elective 2	Elective	3	3	0	0	20	-	30	50	-	
	5	GTE5201/5203/.../ UEC5201/5203/...	Elective 3/University Elective I	Elective	2									
						2	0	0	20	-	30	50	-	

Semester-II

	S.No.	Course Code	Course Name	Type/ Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
Group C	1	GTE502	Rock Mechanics	Core	4	3	0	2	15	25	20	40	-	17

	2	GTE504	Soil dynamics and machine foundation	Core	4	3	0	2	15	25	20	40	-
Group D	3	GTE5402/5404/...	Elective 4	Elective	4	3	0	2	15	25	20	40	-
	4	GTE5302/5304/...	Elective 5	Elective	3	3	0	0	20	-	30	50	-
	5	GTE5202/5204/.../ UEC5202/5204/...	Elective 6/University Elective II	Elective	2	2	0	0	20	-	30	50	-

Semester-III

	S.No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
	Track 1													12
	1	GTE651	Research Project	Core	$\frac{1}{2}$	0	0	$\frac{1}{2}$	0	-	0	$\frac{1}{00}$	0	
Group E	Track 2													
	1	GTE601	Major Project I	Core	3						40	60		
	2	GTE6401/6403/...	Elective 7	Elective	4	3	0	2	15	25	20	40	15	
	3	GTE6301/6303/...	Elective 8	Elective	3	3	0	0	20	-	30	50	-	
	4	GTE6201/6203/...	Elective 9	Elective	2	2/0	0	0/4	20/0	0/40	30/0	50/0	0/60	

Semester-IV

	S.No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
Group F	Track 1													12
	1	GTE652	Research Project	Core	$\frac{1}{2}$	0	0	12	0	-	0	100	0	

Track 2													
1	GTE602	Major Project II	Core	2 ¹	0	0	12	0	-	0	100	0	

LIST OF ELECTIVES :														
	S.No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	
Elective 1	1	GTE5401	Geo-environmental Engineering	Elective	4	3	0	2	15	25	20	40	-	
	2	GTE5403	Geotechnical Exploration		4	3	0	2	15	25	20	40	-	
	3	GTE5405	Application of remote sensing and GIS in Geotechnical Engineering		4	3	0	2	15	25	20	40	-	
	4	GTE5407	Cost Management of Engineering Project		4	3	0	2	15	25	20	40	-	
	S.No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	
Elective 2	1	GTE5301	Geotechnical Earthquake Engineering	Elective	3	3	0	0	20	0	30	50	-	
	2	GTE5303	Stability Analysis of Slopes		3	3	0	0	20	0	30	50	-	
	3	GTE5305	Earth Pressure & Earth Retaining Structures		3	3	0	0	20	0	30	50	-	
	4	GTE5307	Pavement analysis and Design		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 3	1	GTE5201	Seminar	Elective	2	0	0	2	-	100	-	-	-	
	2	GTE5203	FEM in Geotechnical Engineering		2	2	0	0	20	0	30	50	-	
	3	GTE5205	Offshore Geotechnical Engineering		2	2	0	0	20	0	30	50	-	
	4	GTE5207	Composite Material		2	2	0	0	20	0	30	50	-	
	S.No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	
Elective 4	1	GTE5402	Theoretical Soil Mechanics	Elective	4	3	0	2	15	25	20	40	-	
	2	GTE5404	Unsaturated Soil Mechanics		4	3	0	2	15	25	20	40	-	
	3	GTE5406	Critical State Soil Mechanics		4	3	0	2	15	25	20	40	-	
	4	GTE5408	Operational Research		4	3	0	2	15	25	20	40	-	
	S.No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	

