VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI

Scheme of Teaching and Examinations (2026)

M.Tech., in Civil Engineering

(Specialization in Geotechnical Engineering)

Specialization in Geotechnical Engineering

II SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching & Learning Scheme					Examination				Credits
				CI		LI	TW & SL	Total Hours	Duration in hours	CIE Marks	SEE Marks	Total Marks	
				L	T	P							
1	PCC/ IPCC	1MCGT201	Soil Structure and Fundamentals of Soil Behaviour	42	0	28	50	120	03	50	50	100	4
2	PCC	1MCGT202	Advanced Geotechnical Engineering	42	0	0	48	90	03	50	50	100	3
3	PCC	1MCGT203	Dynamics of Soils and Foundations	42	0	0	48	90	03	50	50	100	3
4	PCC	1MCGT204	Ground Improvement Techniques	42	0	0	48	90	03	50	50	100	3
5	PEC	1MCGT205X	Professional Elective – III	42	0	0	48	90	03	50	50	100	3
6	PEC	1MCGT206X	Professional Elective – IV	42	0	0	48	90	03	50	50	100	3
7	PCC L	1MCGTL207	Experimental Geotechnics Design Laboratory	0	0	28	02	30	03	50	50	100	1
8	PCC	1MCGTS208	Minor Project / Skill Development Project	0	0	0	60	60	03	50	50	100	2
									Total	**400**	**400**	**800**	**22**

Professional Elective Courses (PECs)				
PEC-III			**PEC-IV**	
Code	**Title of the Course**		**Code**	**Title of the Course**
1MCGT205A	Rock Mechanics and Tunnelling		1MCGT206A	Numerical Modelling in Geotechnical Engineering
1MCGT205B	Geotechnical Earthquake Engineering		1MCGT206B	Artificial Intelligence and Machine Learning for Geo- Engineering Applications
1MCGT205C	Analysis and Design of Machine Foundations		1MCGT206C	Soil–Structure Interaction (SSI)
1MCGT205D	Geosynthetics and Geoenvironmental Engineering		1MCGT206D	Disaster Risk Reduction in Geo-Infrastructure
1MCGT205E	Earth and Embankment Dams		1MCGT206E	Probability and Reliability in Geotechnical Engineering
1MCGT205F	Deep Excavation and Retaining Structur		1MCGT206F	Sustainable Geotechnics and Groundwater Protection