

Birla Vishvakarma Mahavidyalaya (An Autonomous Institution)
Structural Engineering Department
Programme Structure for
Honours in Geotechnical Engineering

Can be Opted by: Students of B.Tech. (Civil Engineering) as per [AR for Minors / Honours](#)

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1		Programme Elective I	3	0	0	3	3
2		Programme Elective II	3	0	0	3	3
3		Programme Elective III	3	0	0	3	3
4		Programme Elective IV	3	0	0	3	3
5	HGE91	Project	0	0	16	16	8
Total			12	0	16	28	20

Pool of Courses for Programme Elective – I, II, III, IV

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	HGE11	Advanced Soil Mechanics	3	0	0	3	3
2	HGE12	Earthquake Geotechnical Engineering	3	0	0	3	3
3	HGE13	Environmental Geotechnics	3	0	0	3	3
4	HGE14	FEM & Constitutive Modelling in Geomechanics	3	0	0	3	3
5	HGE15	Geoenvironmental Engineering (Environmental Geotechnology): Landfills, Slurry Ponds & Contaminated Sites	3	0	0	3	3
6	HGE16	Geosynthetics and Reinforced Soil Structures	3	0	0	3	3
7	HGE17	Soil Dynamics	3	0	0	3	3
8	HGE18	Soil Structure Interaction	3	0	0	3	3
9	HGE19	Subsurface Exploration :Importance and Techniques Involved	3	0	0	3	3
10	HGE20	Unsaturated Soil Mechanics	3	0	0	3	3
11	HGE21	Rock Engineering	3	0	0	3	3
12	HGE22	Advanced Foundation Engineering	3	0	0	3	3