

**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	<a href="#">HGE91</a>	<a href="#">Project</a>	0	0	16	16	8
<b>Total</b>			<b>12</b>	<b>0</b>	<b>16</b>	<b>28</b>	<b>20</b>

**Pool of Courses for Programme Elective - I, II, III, IV**

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