

**Birla Vishvakarma Mahavidyalaya (An Autonomous Institution)****Structural Engineering Department****Programme Structure for****Honours in Structural 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="#">HSE91</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="#">HSE11</a>	<a href="#">Admixtures and Special Concretes</a>	3	0	0	3	3
2	<a href="#">HSE12</a>	<a href="#">Advanced Concrete Technology</a>	3	0	0	3	3
3	<a href="#">HSE13</a>	<a href="#">Advanced Design of Steel Structures</a>	3	0	0	3	3
4	<a href="#">HSE14</a>	<a href="#">Advanced Solid Mechanics</a>	3	0	0	3	3
5	<a href="#">HSE15</a>	<a href="#">Bridge Engineering</a>	3	0	0	3	3
6	<a href="#">HSE16</a>	<a href="#">Design of Masonry Structures</a>	3	0	0	3	3
7	<a href="#">HSE17</a>	<a href="#">Development and Applications of Special Concretes</a>	3	0	0	3	3
8	<a href="#">HSE18</a>	<a href="#">Dynamics of Structures</a>	3	0	0	3	3
9	<a href="#">HSE19</a>	<a href="#">Elastic Stability of Structures</a>	3	0	0	3	3
10	<a href="#">HSE20</a>	<a href="#">Finite Element Method and Computational Structural Dynamics</a>	3	0	0	3	3
11	<a href="#">HSE21</a>	<a href="#">Introduction to Earthquake Engineering</a>	3	0	0	3	3
12	<a href="#">HSE22</a>	<a href="#">Maintenance and Repair of Concrete Structures</a>	3	0	0	3	3
13	<a href="#">HSE23</a>	<a href="#">Matrix Method of Structural Analysis</a>	3	0	0	3	3
14	<a href="#">HSE24</a>	<a href="#">Mechanics of Materials</a>	3	0	0	3	3
15	<a href="#">HSE25</a>	<a href="#">Optimization Methods</a>	3	0	0	3	3
16	<a href="#">HSE26</a>	<a href="#">Plates and Shells</a>	3	0	0	3	3
17	<a href="#">HSE27</a>	<a href="#">Pre-stressed Concrete Structures</a>	3	0	0	3	3

18	<a href="#"><u>HSE28</u></a>	<a href="#"><u>Stability Aspects of Structural Steel Design: Concepts and Applications</u></a>	3	0	0	3	3
19	<a href="#"><u>HSE29</u></a>	<a href="#"><u>Structural Reliability</u></a>	3	0	0	3	3
20	<a href="#"><u>HSE30</u></a>	<a href="#"><u>Theory of Elasticity</u></a>	3	0	0	3	3

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