

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	HSE91	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	HSE11	Admixtures and Special Concretes	3	0	0	3	3
2	HSE12	Advanced Concrete Technology	3	0	0	3	3
3	HSE13	Advanced Design of Steel Structures	3	0	0	3	3
4	HSE14	Advanced Solid Mechanics	3	0	0	3	3
5	HSE15	Bridge Engineering	3	0	0	3	3
6	HSE16	Design of Masonry Structures	3	0	0	3	3
7	HSE17	Development and Applications of Special Concretes	3	0	0	3	3
8	HSE18	Dynamics of Structures	3	0	0	3	3
9	HSE19	Elastic Stability of Structures	3	0	0	3	3
10	HSE20	Finite Element Method and Computational Structural Dynamics	3	0	0	3	3
11	HSE21	Introduction to Earthquake Engineering	3	0	0	3	3
12	HSE22	Maintenance and Repair of Concrete Structures	3	0	0	3	3
13	HSE23	Matrix Method of Structural Analysis	3	0	0	3	3
14	HSE24	Mechanics of Materials	3	0	0	3	3
15	HSE25	Optimization Methods	3	0	0	3	3
16	HSE26	Plates and Shells	3	0	0	3	3
17	HSE27	Pre-stressed Concrete Structures	3	0	0	3	3

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