

**BVM Engineering College (An Autonomous Institution)**

**Civil Engineering Department**

**B. Tech.(Civil Engineering)**

**Semester 1**

<b>Sr. No.</b>	<b>Course Code</b>	<b>Name of Course</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>H</b>	<b>C</b>
1	<a href="#">BS111</a> *	<a href="#">Advanced Calculus</a>	3	1	0	4	4
2	<a href="#">ES103</a>	<a href="#">Basic Electrical Engineering</a>	3	0	2	5	4
3	<a href="#">ES110</a>	<a href="#">Basic Mechanical Engineering</a>	3	0	2	5	4
4	<a href="#">ES111</a>	<a href="#">Workshop</a>	0	0	4	4	2
5	<a href="#">HS112</a> \$	<a href="#">Environmental Science</a>	2	0	0	2	0
<b>Total</b>			<b>11</b>	<b>1</b>	<b>8</b>	<b>20</b>	<b>14</b>

\*For Students admitted in AY 2018-19, [BS101](#) (LTP:3,2,0)

\$For Students admitted in AY 2018-19, [HS102](#) (LTP:2,2,0)

**Semester 2**

<b>Sr. No.</b>	<b>Course Code</b>	<b>Name of Course</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>H</b>	<b>C</b>
1	<a href="#">BS112</a> #	<a href="#">Linear Algebra and Fourier Series</a>	3	1	0	4	4
2	<a href="#">BS103</a>	<a href="#">Physics</a>	3	0	2	5	4
3	<a href="#">ES106</a>	<a href="#">Programming for Engineers</a>	1	0	4	5	3
4	<a href="#">ES109</a>	<a href="#">Engineering Graphics and Design</a>	2	0	4	6	4
5	<a href="#">ES115</a>	<a href="#">Basic Civil Engineering</a>	3	0	2	5	4
6	<a href="#">HS101</a>	<a href="#">English</a>	2	0	2	4	3
<b>Total</b>			<b>14</b>	<b>1</b>	<b>14</b>	<b>29</b>	<b>22</b>

#For Students admitted in AY 2018-19, [BS102](#) (LTP:3,2,0)

### Semester 3

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	<a href="#">2BS02</a>	<a href="#">Differential Equations and Statistics</a>	3	1	0	4	4
2	<a href="#">2SE01</a>	<a href="#">Construction Material and Concrete Technology</a>	3	0	2	5	4
3	<a href="#">2ES01</a>	<a href="#">Mechanics of Solids</a>	3	0	2	5	4
4	<a href="#">2CE01</a>	<a href="#">Fluid Mechanics</a>	3	0	2	5	4
5	<a href="#">2HS01</a>	<a href="#">Professional Soft Skills</a>	1	0	2	3	2
6	<a href="#">2CE02</a>	<a href="#">Engineering Surveying</a>	3	0	2	5	4
<b>Total</b>			<b>16</b>	<b>1</b>	<b>10</b>	<b>27</b>	<b>22</b>

### Semester 4

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	<a href="#">2BS03</a>	<a href="#">Numerical Methods in Civil Engineering</a>	1	0	2	3	2
2	<a href="#">2CE03</a>	<a href="#">Hydraulic Engineering</a>	3	0	2	5	4
3	<a href="#">2SE02</a>	<a href="#">Geotechnical Engineering</a>	2	0	1	3	2.5
4	<a href="#">2SE03</a>	<a href="#">Structural Analysis I</a>	2	0	1	3	2.5
5	<a href="#">2CE04</a>	<a href="#">Engineering Geology</a>	3	0	1	4	3.5
6	<a href="#">2CE05</a>	<a href="#">Construction Technology</a>	3	0	0	3	3
<b>Total</b>			<b>14</b>	<b>0</b>	<b>7</b>	<b>21</b>	<b>17.5</b>

CEIT1	Summer Internship - I (Two Weeks)	-	-	-	-	<b>0</b>
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### Semester 5

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1		Open Elective - I	3	0	0	3	3
2	3SE01	Advanced Geotechnical Engineering	3	0	1	4	3.5
3	3SE02	Structural Analysis II	3	1	0	4	4
4	3CE01	Water and Waste Water Engineering	3	0	2	5	4
5	3CE02	Highway and Traffic Engineering	3	0	2	5	4
6	3SE03	Design of Steel Structures	3	1	0	4	4
<b>Total</b>			<b>18</b>	<b>2</b>	<b>5</b>	<b>25</b>	<b>22.5</b>

**Open Elective - I**

1	3CE81	Environment And Health	3	0	0	3	3
2	3SE81	Disaster Management and Mitigation	3	0	0	3	3

**Semester 6**

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1		Open Elective - II	3	0	2	5	4
2	3CE03	Building Planning, Costing and Valuation	3	1	0	4	4
3	3HS01	Ethics and Constitution of India	1	0	2	3	0
4	3CE04	Railway and Bridge Engineering	2	1	0	3	3
5	3SE04	Design of RC Structures	3	1	0	4	4
6	3CE05	Hydrology and Water Resources Engineering	3	1	0	4	4
<b>Total</b>			<b>15</b>	<b>4</b>	<b>4</b>	<b>23</b>	<b>19</b>

**Open Elective - II**

1	3CE82	Geo-Informatics	3	0	2	5	4
2	3SE82	Advanced Strength of Materials	3	0	2	5	4
CEIT2 Summer Internship – II (Two Weeks)			-	-	-	-	0

**Semester 7**

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	4SE01	Earthquake Engineering	2	0	2	4	3
2	4CE01	Project Management and Equipments	3	1	0	4	4
3	4CE02	Construction Safety and Quality Management	2	0	0	2	2
4		Program Elective - I	3	0	2	5	4
5		Program Elective – II	3	1	0	4	4
6	4CE31	Project I	0	0	12	12	6
<b>Total</b>			<b>13</b>	<b>2</b>	<b>16</b>	<b>31</b>	<b>23</b>

<b>Program Elective - I</b>							
1	4CE41	Ground Improvement Techniques	3	0	2	5	4
2	4CE42	Air Pollution and Control	3	0	2	5	4
3	4CE43	Geomatics Engineering	3	0	2	5	4
4	4CE44	Hydraulic Machines	3	0	2	5	4

<b>Program Elective - II</b>							
1	4SE41	Advanced Design of Steel Structures	3	1	0	4	4
2	4SE42	Advanced Structural Analysis	3	1	0	4	4
3	4CE45	Irrigation and Hydraulic Structures	3	1	0	4	4
4	4CE46	Urban Transportation System	3	1	0	4	4

### Semester 8

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1		Program Elective – III	2	0	2	4	3
2		Program Elective – IV	1	0	4	5	3
3		Program Elective – V	3	0	0	3	3
4		Program Elective - VI	3	0	0	3	3
5		Program Elective - VII	0	0	4	4	2
6	4CE32	Project II	0	0	12	12	6
<b>OR</b>							
	4CE33	Industrial Project	0	0	12	12	6
<b>Total</b>			<b>9</b>	<b>0</b>	<b>22</b>	<b>31</b>	<b>20</b>

<b>Total Credits Distribution</b>			<b>111</b>	<b>11</b>	<b>84</b>	<b>206</b>	<b>160</b>
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<b>Program Elective - III</b>							
1	4SE43	Advanced Design of Concrete Structures	2	0	2	4	3
2	4SE44	Computer aided Structural Analysis	2	0	2	4	3
	4CE47	Green Building Materials and Techniques	2	0	2	4	3
3	4CE48	Pavement Analysis and Design	2	0	2	4	3

**Program Elective - IV**

1	4SE45	Structural Design Practices	1	0	4	5	3
2	4CE49	Digital Survey Project	1	0	4	5	3
3	4CE50	Traffic Engineering Field Study	1	0	4	5	3
4	4CE51	Building Construction Project	1	0	4	5	3

**Program Elective - V**

1	4SE46	Design of Special Structures	3	0	0	3	3
2	4SE47	Repairs and Rehabilitation of Structures	3	0	0	3	3
3	4CE52	Building Services and Treatments	3	0	0	3	3
4	4CE53	Solid Waste Management	3	0	0	3	3

**Program Elective - VI**

1	4SE48	Prestressed Concrete	3	0	0	3	3
2	4SE49	Foundation Engineering	3	0	0	3	3
3	4CE54	Irrigation Water Management	3	0	0	3	3
4	4CE55	Dock, Harbour and Airport Engineering	3	0	0	3	3

**Program Elective - VII**

1	4SE50	Software Training in Structural Engineering	0	0	4	4	2
2	4CE56	Software Training in Civil Engineering	0	0	4	4	2