

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM**  
**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**SCHEME OF TEACHING AND EXAMINATION 2015-2016**

B.E. CIVIL ENGINEERING  
(Common to .....)

**V SEMESTER**

| Sl. No       | Subject Code | Title   | Teaching Dept. | Teaching Hours /Week |                    | Examination |                         |            |             | Credits   |
|--------------|--------------|---|----------------|----------------------|--------------------|-------------|-------------------------|------------|-------------|-----------|
|              |              |   |                | Theory               | Practical/ Drawing | Duration    | Theory/ Practical Marks | I.A. Marks | Total Marks |           |
| 1            | 15CV51       | Construction Management & Professional ethics |                | 04                   |                    | 03          | 80                      | 20         | 100         | 4         |
| 2            | 15CV52       | Analysis of Indeterminate Structures          |                | 04                   |                    | 03          | 80                      | 20         | 100         | 4         |
| 3            | 15CV53       | Applied Geotechnical Engineering              |                | 04                   |                    | 03          | 80                      | 20         | 100         | 4         |
| 4            | 15CV54       | Professional Elective 1                       |                | 03                   |                    | 03          | 80                      | 20         | 100         | 3         |
| 5            | 15CV55       | Global Elective 1                             |                | 03                   |                    | 03          | 80                      | 20         | 100         | 3         |
| 6            | 15CVL56      | Computer Aided Building Drawing               |                |                      | 1I+2P              | 03          | 80                      | 20         | 100         | 2         |
| 7            | 15CVL57      | <b>Total Station Lab</b>                      |                |                      | 1I+2P              | 03          | 80                      | 20         | 100         | 2         |
| 8            | 15CVL58      | Concrete Technology Laboratory                |                |                      | 1I+2P              | 03          | 80                      | 20         | 100         | 2         |
| <b>TOTAL</b> |              |   |                | <b>18</b>            | <b>09</b>          | <b>24</b>   | <b>640</b>              | <b>160</b> | <b>800</b>  | <b>24</b> |

|                   |   |                         |                                     |
|-------------------|---|-------------------------|-------------------------------------|
| Global Elective 1 |   | Professional Elective 2 |                                     |
| 15CV541           | Public Policy and Global Affairs              | 15CV551                 | Air pollution                       |
| 15CV542           | Sustainability Concepts In Engineering        | 15CV552                 | Design Concept of Building services |
| 15CV543           | Remote Sensing and GIS                        | 15CV553                 | Masonry Structures                  |
| 15CV544           | Occupational Safety and Health Administration | 15CV554                 | Ground Improvement Techniques       |

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**VI SEMESTER**

| Sl. No       | Subject Code | Title                               | Teaching Dept. | Teaching Hours /Week |                    | Examination |                         |            |             | Credits   |
|--------------|--------------|-------------------------------------|----------------|----------------------|--------------------|-------------|-------------------------|------------|-------------|-----------|
|              |              |                                     |                | Theory               | Practical/ Drawing | Duration    | Theory/ Practical Marks | I.A. Marks | Total Marks |           |
| 1            | 15CV61       | Highway Engineering                 |                | 04                   |                    | 03          | 80                      | 20         | 100         | 4         |
| 2            | 15CV62       | Design of RC Structural Elements    |                | 04                   |                    | 03          | 80                      | 20         | 100         | 4         |
| 3            | 15CV63       | Design of Steel Structures          |                | 04                   |                    | 03          | 80                      | 20         | 100         | 4         |
| 4            | 15CV64       | Professional Elective 2             |                | 03                   |                    | 03          | 80                      | 20         | 100         | 3         |
| 5            | 15CV65X      | Global Elective 2                   |                | 03                   |                    | 03          | 80                      | 20         | 100         | 3         |
| 6            | 15CVL66      | Software Application Laboratory     |                |                      | 1I+2P              | 03          | 80                      | 20         | 100         | 2         |
| 7            | 15CVL67      | Geotechnical Engineering Laboratory |                |                      | 1I+2P              | 03          | 80                      | 20         | 100         | 2         |
| 8            | 15CVL68      | Extensive survey Project /Camp      |                |                      | 1I+2P              | 03          | 80                      | 20         | 100         | 2         |
| <b>TOTAL</b> |              |                                     |                | <b>18</b>            | <b>9</b>           | <b>24</b>   | <b>640</b>              | <b>160</b> | <b>800</b>  | <b>24</b> |

| Global Elective |   | Professional Elective |                                      |
|-----------------|---|-----------------------|--------------------------------------|
| 15CV641         | Communication and Professional Writing  | 15CV651               | Solid Waste Management               |
| 15CV642         | Environmental protection and management | 15CV652               | Railways, Harbours and tunneling     |
| 15CV643         | Numerical Methods and applications      | 15CV653               | Matrix method in Structural Analysis |
| 15CV644         | Finite element Method                   | 15CV654               | Structural Dynamics                  |

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**VII SEMESTER**

| Sl. No       | Subject Code | Title                                       | Teaching Dept. | Teaching Hours /Week |                    | Examination |            |                         |             |           |
|--------------|--------------|---|----------------|----------------------|--------------------|-------------|------------|-------------------------|-------------|-----------|
|              |              |   |                | Theory               | Practical/ Drawing | Duration    | I.A. Marks | Theory/ Practical Marks | Total Marks |           |
| 1            | 15CV71       | Water supply and Sanitary Engineering       |                | 04                   |                    | 03          | 20         | 80                      | 100         | 4         |
| 2            | 15CV72       | Advanced design of RCC and Steel Structures |                | 04                   |                    | 03          | 20         | 80                      | 100         | 4         |
| 3            | 15CV73       | Hydrology and Irrigation Engineering        |                | 04                   |                    | 03          | 20         | 80                      | 100         | 4         |
| 4            | 15CV74       | Professional Elective 3                     |                | 03                   |                    | 03          | 20         | 80                      | 100         | 3         |
| 5            | 15CV75X      | Professional Elective 4                     |                | 03                   |                    | 03          | 20         | 80                      | 100         | 3         |
| 6            | 15CVL76      | Environmental Engineering laboratory        |                |                      | 1I+2P              | 03          | 20         | 80                      | 100         | 2         |
| 7            | 15CVL77      | Computer Aided Detailing of Structures      |                |                      | 1I+2P              | 03          | 20         | 80                      | 100         | 2         |
| 8            | 15CVL78      | Highway Materials Laboratory                |                |                      | 1I+2P              | 03          | 20         | 80                      | 100         | 2         |
| <b>TOTAL</b> |              |   |                | <b>18</b>            | <b>9</b>           | <b>24</b>   | <b>160</b> | <b>640</b>              | <b>800</b>  | <b>24</b> |

|            |                                      |                         |   |
|------------|--------------------------------------|-------------------------|---|
| Elective 3 |                                      | Professional Elective 5 |   |
| 15CV741    | Bridge Engineering                   | 15CV751                 | Ground Water & Hydraulics                     |
| 15CV742    | Urban Transportation and Planning    | 15CV752                 | Traffic Engineering                           |
| 15CV743    | Instrumentation in Civil Engineering | 15CV753                 | Rehabilitation and Retrofitting of Structures |
| 15CV744    | Earthquake Engineering               | 15CV754                 | Reinforced Soil Structures                    |

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| Sl. No       | Subject Code | Title                                       | Teaching Dept. | Teaching Hours /Week |                    | Examination |            |                         |             | Credit    |
|--------------|--------------|---|----------------|----------------------|--------------------|-------------|------------|-------------------------|-------------|-----------|
|              |              |   |                | Theory               | Practical/ Drawing | Duration    | I.A. Marks | Theory/ Practical Marks | Total Marks |           |
| 1            | 15CV81       | Quantity surveying and Contracts Management |                | 4                    | -                  | 3           | 20         | 80                      | 100         | 4         |
| 2            | 15CV82       | Design of Pre stressed concrete elements    |                | 4                    | -                  | 3           | 20         | 80                      | 100         | 4         |
| 3            | 15CV83X      | <b>Professional Elective 6</b>              |                | 3                    | -                  | 3           | 20         | 80                      | 100         | 3         |
| 4            | 15CV84       | <b>Internship</b>                           |                | Industry Oriented    |                    | 3           | 50         | 50                      | 100         | 4         |
| 5            | 15CVP85      | Project Work                                |                | -                    | 6                  | 3           | 100        | 100                     | 200         | 9         |
| 6            | 15CVS86      | Seminar                                     |                | -                    | 4                  | -           | 100        | -                       | 100         | 2         |
| <b>TOTAL</b> |              |   |                | <b>11</b>            | <b>10</b>          | <b>15</b>   | <b>310</b> | <b>390</b>              | <b>700</b>  | <b>26</b> |

| <b>Elective</b> |                                  |
|-----------------|----------------------------------|
| 15CV831         | Design of Bridges                |
| 15CV832         | Industrial waste water treatment |
| 15CV833         | Hydraulic Structures             |
| 15CV834         | Pavement Design                  |