



# Chhattisgarh Swami Vivekanand Technical University, Bhilai (CG)

## Scheme for Diploma First Semester

**Common to Branches :** Architecture, Chemical Engineering, Civil Engineering , Mechanical Engineering , Metallurgy , Mining Engineering, Mining & Mine Surveying, Industrial Safety & Fire Safety Engineering, Geographic Information System (G.I.S) and Global positioning System, Cement Technology, Computer Science & Engineering, Electrical Engineering , Electrical & Electronics Engineering, Electronics & Telecommunication Engineering, Information Technology , Instrumentation Engineering, EV-Technology , Artificial Intelligence & Machine Learning , Computer Science , Artificial Intelligence (AI), Biomedical Instrumentation

| Sl. No<br>. | Board of Studies (BOS)        | Courses<br>(Subject)                                          | Subject Code | Course<br>Category | Period per<br>Week |    |    | Scheme of Examination |     |     | Total<br>Marks | Credits | Teaching<br>Hours | Assessment<br>Hours |
|-------------|-------------------------------|---------------------------------------------------------------|--------------|--------------------|--------------------|----|----|-----------------------|-----|-----|----------------|---------|-------------------|---------------------|
|             |                               |                                                               |              |                    | L                  | T  | P  | Theory/Lab            |     |     |                |         |                   |                     |
|             |                               |                                                               |              |                    |                    |    |    | ESE                   | CT  | TA  |                |         |                   |                     |
| 1.          | Applied Chemistry             | Applied Chemistry                                             | 2000A01AT011 | BFC-BSC            | 4                  | -  | -  | 100                   | 20  | 20  | 140            | 4       | 60                | 20                  |
| 2.          | Applied Mathematics           | Basic Mathematics                                             | 2000A02AT014 | BFC-BSC            | 2                  | 1  | -  | 100                   | 20  | 20  | 140            | 3       | 45                | 15                  |
| 3.          | Computer Science<br>Engg      | Fundamentals of<br>Computer & Information<br>Technology       | 2000A03CT022 | SBS-PCC            | 2                  | -  | -  | 100                   | 20  | 20  | 140            | 2       | 30                | 15                  |
| 4.          | Mechanical<br>Engineering     | Engineering Drawing                                           | 2000A04AT037 | BFC-ESC            | 2                  | -  | -  | 100                   | 20  | 20  | 140            | 2       | 30                | 15                  |
| 5.          | Humanities                    | Communication Skills                                          | 2000A05DT046 | AEC-ESC            | 3                  | 1  | -  | 50                    | 10  | 10  | 70             | 4       | 60                | 15                  |
| 6.          | Information Technology        | Cyber Threats and<br>Awareness                                | 2000A06FT033 | VAC                | 1                  | -  | -  | 50                    | 10  | 10  | 70             | 1       | 15                | 15                  |
| 7.          | Mechanical Engineering        | Engineering Workshop (Lab)                                    | 2000A01AL037 | BFC-ESC            | -                  | -  | 4  | 40                    | -   | 20  | 60             | 2       | 60                | 10                  |
| 8.          | Computer Science<br>Engg      | Fundamentals of Computer<br>& Information Technology<br>(Lab) | 2000A02CL022 | SBS-PCC            | -                  | -  | 2  | 40                    | -   | 20  | 60             | 1       | 30                | 10                  |
| 9.          | Mechanical Engineering        | Engineering Drawing (Lab)                                     | 2000A03AL037 | BFC-ESC            | -                  | -  | 2  | 40                    | -   | 20  | 60             | 1       | 30                | 10                  |
| 10.         | Applied Chemistry             | Applied Chemistry (Lab)                                       | 2000A04AL011 | BFC-BSC            | -                  | -  | 2  | 40                    | -   | 20  | 60             | 1       | 30                | 10                  |
| 11.         | Humanities                    | Yoga & Meditation                                             | 2000A05FL046 | VAC-MNC<br>AU      | -                  | -  | 2  | -                     | -   | 20  | 20             | -       | 30                | 15                  |
| 12.         | Civil Engineering             | Civil Engg-Societal and<br>Global Impact                      | 2000A07FT020 | VAC-MNC<br>AU      | 1                  | -  | -  | -                     | -   | 40  | 40             | -       | 15                | 15                  |
| 13          |                               | Library                                                       |              |                    |                    | 1  |    | -                     | -   | -   | -              | -       | -                 | -                   |
|             | Total                         |                                                               |              |                    | 15                 | 03 | 12 | 660                   | 100 | 240 | 1000           | 21      | 435               | 165                 |
|             | Total Learning Hours/Semester |                                                               |              |                    |                    |    |    |                       |     |     |                |         | 600               |                     |

**L-Lecture, P-Practical, ESE-End semester Exam, CT-Class Test, TA-Teacher's Assessment**

**Note: Abbreviations of Course category**

**BFC- Basics Foundation Course**

**SBS- Skilled Based Subject (Branch Specific)**

**IKS- Indian Knowledge System**

**AEC- Ability Enhancement Course**

**VAC- Value Added Course**

**BSC- Basic Science Courses**

**ESC- Engineering Science Courses**

**PCC- Professional Core Courses**

**HSMC- Humanities, Social Sciences & Management Courses**

**MNC AU-Mandatory Non Credit Courses – Audit Course**



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| Sl. No. | Board of Studies (BOS)                  | Courses (Subject)                                     | Subject Code | Course Category | Period per Week |    |    | Scheme of Examination |     |     | Total Marks | Credits | Teaching Hours | Assessment Hours |
|---------|-----------------------------------------|-------------------------------------------------------|--------------|-----------------|-----------------|----|----|-----------------------|-----|-----|-------------|---------|----------------|------------------|
|         |                                         |                                                       |              |                 | L               | T  | P  | Theory/Lab            |     |     |             |         |                |                  |
|         |                                         |                                                       |              |                 |                 |    |    | ESE                   | CT  | TA  |             |         |                |                  |
| 1.      | Applied Physics                         | Applied Physics                                       | 2000B01AT015 | BFC-BSC         | 4               | -  | -  | 100                   | 20  | 20  | 140         | 4       | 60             | 10               |
| 2.      | Civil Engineering                       | Fundamentals of Civil Engineering & Mechanical        | 2000B02AT020 | BFC-ESC         | 2               | 2  | -  | 100                   | 20  | 20  | 140         | 4       | 60             | 10               |
| 3.      | Electronics and Telecommunication Engg. | Fundamentals of Electrical & Electronics Engineering  | 2000B03AT028 | BFC-BSC         | 2               | 1  | -  | 100                   | 20  | 20  | 140         | 3       | 45             | 10               |
| 4.      | Applied Mathematics                     | Applied Mathematics                                   | 2000B04AT014 | BFC-BSC         | 2               | 1  | -  | 100                   | 20  | 20  | 140         | 3       | 45             | 10               |
| 5.      | Civil Engineering                       | Environmental Engineering and Sustainable Development | 2000B05CT020 | SBS-PCC         | 2               | -  | -  | 100                   | 20  | 20  | 140         | 2       | 30             | 10               |
| 6.      | Humanities                              | Professional Communication & Language (Lab)           | 2000B01DL046 | AEC-BSC         | -               | -  | 4  | 40                    | -   | 20  | 60          | 2       | 60             | 10               |
| 7.      | Electronics and Telecommunication Engg. | Electrical and Electronics Workshop                   | 2000B02CL028 | SBS-PCC         | -               | -  | 2  | 40                    | -   | 20  | 60          | 1       | 30             | 10               |
| 8.      | Applied Physics                         | Applied Physics (Lab)                                 | 2000B03AL015 | BFC-BSC         | -               | -  | 2  | 40                    | -   | 20  | 60          | 1       | 30             | 10               |
| 9.      | Computer Science Engineering            | Essentials of Office Application (Lab)                | 2000B04CL022 | SBS-PCC         | -               | -  | 2  | 40                    | -   | 20  | 60          | 1       | 30             | 10               |
| 10      | Humanities                              | Indian Constitution                                   | 2000B06ET046 | IKS             | 1               | -  | -  | -                     | -   | 20  | 20          | 1       | 15             | 25               |
| 11.     | Humanities                              | Universal Human Value-I                               | 2000B07FT046 | VAC-MNC AU      | 2               | -  | -  | -                     | -   | 20  | 20          | -       | 30             | 10               |
| 12.     | Humanities                              | Sports and Social/Community Services                  | 2000B05FL046 | VAC-MNC AU      | -               | -  | 2  | -                     | -   | 20  | 20          | -       | 30             | 10               |
| 13      |                                         | Library                                               |              |                 |                 | 1  | -  | -                     | -   | -   | -           | -       | -              | -                |
|         | Total                                   |                                                       |              |                 | 15              | 05 | 12 | 660                   | 100 | 240 | 1000        | 22      | 465            | 135              |
|         | Total Learning Hours/Semester           |                                                       |              |                 |                 |    |    |                       |     |     |             |         | 600            |                  |

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## CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI (C.G.)

### Scheme of Teaching and Examination

#### Scheme for Diploma Mining and Mine Surveying Third Semester (2093)

| Sl. No.                      | Board of Studies (BOS)           | Courses (Subject)                                   | Subject Code | Course Category | Period per Week |   |    | Scheme of Examination |     |     | Total Marks | Credits | Teaching Hours/sem | Assessment hours/sem (Assignment/ Practical file) |
|------------------------------|----------------------------------|-----------------------------------------------------|--------------|-----------------|-----------------|---|----|-----------------------|-----|-----|-------------|---------|--------------------|---------------------------------------------------|
|                              |                                  |                                                     |              |                 | L               | T | P  | Theory/Lab            |     |     |             |         |                    |                                                   |
|                              |                                  |                                                     |              |                 |                 |   |    | ESE                   | CT  | TA  |             |         |                    |                                                   |
| 1                            | Mining and Mine Surveying        | Basic Electrical Engineering                        | 2093C01BT093 | PCC             | 2               | 1 | -  | 100                   | 20  | 20  | 140         | 3       | 45                 | 15                                                |
| 2                            | Mining and Mine Surveying        | Fundamentals of Mining Engg.                        | 2093C02BT093 | PCC             | 2               | 1 | -  | 100                   | 20  | 20  | 140         | 3       | 45                 | 15                                                |
| 3                            | Mining and Mine Surveying        | Mining Geology                                      | 2093C03BT093 | PCC             | 2               | 1 | -  | 100                   | 20  | 20  | 140         | 3       | 45                 | 15                                                |
| 4                            | Mining and Mine Surveying        | Elements of Mine Surveying                          | 2093C04CT093 | SBS-PCC         | 2               | 1 | -  | 100                   | 20  | 20  | 140         | 3       | 45                 | 15                                                |
| 5                            | Mining and Mine Surveying        | Mine Environmental Engg.                            | 2093C05CT093 | SBS-PCC         | 2               | 1 | -  | 100                   | 20  | 20  | 140         | 3       | 45                 | 15                                                |
| 6                            | Mining and Mine Surveying        | Basic Electrical Engineering (Lab)                  | 2093C01BL093 | PCC             | -               | - | 2  | 40                    | -   | 20  | 60          | 1       | 30                 | 15                                                |
| 7                            | Mining and Mine Surveying        | Mining Geology (Lab)                                | 2093C02BL093 | PCC             | -               | - | 2  | 40                    | -   | 20  | 60          | 1       | 30                 | 15                                                |
| 8                            | Mining and Mine Surveying        | Elements of Mine Surveying (Lab)                    | 2093C03CL093 | SBS-PCC         | -               | - | 2  | 40                    | -   | 20  | 60          | 1       | 30                 | 15                                                |
| 9                            | Mining and Mine Surveying        | Mine Environmental Engg. (Lab)                      | 2093C04CL093 | SBS-PCC         | -               | - | 2  | 40                    | -   | 20  | 60          | 1       | 30                 | 15                                                |
| 10                           | Humanities                       | Indian Traditional Knowledge: Science and Practices | 2093C06ET046 | IKS             | 1               | - | -  | -                     | -   | 20  | 20          | 1       | 15                 | 15                                                |
| 11                           | Computer Science and Engineering | Idea and Innovation (Lab)                           | 2093C05EL022 | VAC MNC-AU      | -               | - | 2  | -                     | -   | 30  | 30          | 1       | 30                 | 15                                                |
| 12                           | Humanities                       | Personality Development                             | 2093C07DT046 | AEC-MNC - AU    | 1               | - | -  | -                     | -   | 10  | 10          | -       | 15                 | 15                                                |
| 13                           |                                  | Library                                             |              |                 | -               | 1 | -  | -                     | -   | -   | -           | -       | 15                 | -                                                 |
| Total                        |                                  |                                                     |              |                 | 12              | 6 | 10 | 660                   | 100 | 240 | 1000        | 21      | 420                | 180                                               |
| TotalLearning Hours/Semester |                                  |                                                     |              |                 |                 |   |    |                       |     |     |             |         | 600                |                                                   |

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