

## DIPLOMA IN CIVIL ENGINEERING

### FIRST SEMESTER

|        |        |                                     | Contact Hour |   |   |           |           |
|--------|--------|-------------------------------------|--------------|---|---|-----------|-----------|
| S. No. |        | Subject Name                        | L            | T | P | Total     | Credits   |
| 1      | DMA101 | Mathematics-I                       | 2            | 1 | 0 | 3         | 3         |
| 2      | DPH101 | Applied Physics-I                   | 2            | 1 | 0 | 3         | 3         |
| 3      | DCH101 | Applied Chemistry                   | 2            | 1 | 0 | 3         | 3         |
| 4      | DHS101 | Communication Skills in English     | 2            | 0 | 0 | 2         | 2         |
| 5      | DCE201 | Engineering Graphics                | 0            | 0 | 3 | 3         | 1.5       |
| 6      | DME201 | Engineering Workshop Practice       | 0            | 0 | 3 | 3         | 1.5       |
| 7      | DPH201 | Applied Physics-I Lab               | 0            | 0 | 2 | 2         | 1         |
| 8      | DCH201 | Applied Chemistry Lab               | 0            | 0 | 2 | 2         | 1         |
| 9      | DGE201 | Introduction to Computers           | 0            | 0 | 2 | 2         | 1         |
| 10     | DHS201 | Communication Skills in English Lab | 0            | 0 | 2 | 2         | 1         |
|        |        | <b>SUB TOTAL</b>                    |              |   |   | <b>25</b> | <b>18</b> |

### SECOND SEMESTER

|        |        |                                                          | Contact Hour |   |   |           |           |
|--------|--------|----------------------------------------------------------|--------------|---|---|-----------|-----------|
| S. No. |        | Subject Name                                             | L            | T | P | Total     | Credits   |
| 1      | DMA102 | Mathematics-II                                           | 3            | 1 | 0 | 4         | 4         |
| 2      | DPH102 | Applied Physics-II                                       | 2            | 1 | 0 | 3         | 3         |
| 3      | DCS101 | Introduction to IT Systems                               | 2            | 0 | 0 | 2         | 2         |
| 4      | DEC101 | Fundamentals of Electrical & Electronics Engineering     | 2            | 1 | 0 | 3         | 3         |
| 5      | DCE101 | Engineering Mechanics                                    | 2            | 1 | 0 | 3         | 3         |
| 6      | DPH202 | Applied Physics-II Lab                                   | 0            | 0 | 2 | 2         | 1         |
| 7      | DCS201 | Introduction to IT Systems Lab                           | 0            | 0 | 4 | 4         | 2         |
| 8      | DEC201 | Fundamentals of Electrical & Electronics Engineering Lab | 0            | 0 | 2 | 2         | 1         |
| 9      | DCE202 | Engineering Mechanics Lab                                | 0            | 0 | 2 | 2         | 1         |
| 10     | DGE001 | Environmental Science                                    | 2            | 0 | 0 | 2         | 0         |
|        |        | <b>SUB TOTAL</b>                                         |              |   |   | <b>27</b> | <b>20</b> |

### THIRD SEMESTER

|        |        |                               | Contact Hour |   |   |           |           |
|--------|--------|-------------------------------|--------------|---|---|-----------|-----------|
| S. No. |        | Subject Name                  | L            | T | P | Total     | Credits   |
| 1      | DCE102 | Construction Material         | 3            | 0 | 0 | 3         | 3         |
| 2      | DCE103 | Basic Surveying               | 2            | 0 | 0 | 2         | 2         |
| 3      | DCE104 | Mechanics of Materials        | 2            | 0 | 0 | 2         | 2         |
| 4      | DCE105 | Building Construction         | 2            | 0 | 0 | 2         | 2         |
| 5      | DCE106 | Concrete Technology           | 2            | 0 | 0 | 2         | 2         |
| 6      | DCE107 | Geotechnical Engineering      | 2            | 0 | 0 | 2         | 2         |
| 7      | DCE203 | Construction Material Lab     | 0            | 0 | 2 | 2         | 1         |
| 8      | DCE204 | Basic Surveying Lab           | 0            | 0 | 2 | 2         | 1         |
| 9      | DCE205 | Mechanics of Materials Lab    | 0            | 0 | 2 | 2         | 1         |
| 10     | DCE206 | Concrete Technology Lab       | 0            | 0 | 2 | 2         | 1         |
| 11     | DCE207 | Geotechnical Engineering Lab  | 0            | 0 | 2 | 2         | 1         |
| 12     | DCEXXX | Summer Internship-I (4 weeks) | 0            | 0 | 0 | 0         | 2         |
|        |        | <b>SUB TOTAL</b>              |              |   |   | <b>23</b> | <b>20</b> |

### FOURTH SEMESTER

|        |        |                                           | Contact Hour |   |   |           |           |
|--------|--------|-------------------------------------------|--------------|---|---|-----------|-----------|
| S. No. |        | Subject Name                              | L            | T | P | Total     | Credits   |
| 1      | DCE108 | Hydraulics                                | 2            | 0 | 0 | 2         | 2         |
| 2      | DCE109 | Advanced Surveying                        | 2            | 0 | 0 | 2         | 2         |
| 3      | DCE110 | Theory of Structure                       | 2            | 0 | 0 | 2         | 2         |
| 4      | DCE111 | Building Planning and Drawing             | 1            | 0 | 0 | 1         | 1         |
| 5      | DCE112 | Water Resource Engineering                | 2            | 0 | 0 | 2         | 2         |
| 6      | DCE113 | Transportation Engineering                | 2            | 0 | 0 | 2         | 2         |
| 7      | DCE208 | Hydraulics Lab                            | 0            | 0 | 2 | 2         | 1         |
| 8      | DCE209 | Advanced Surveying Lab                    | 0            | 0 | 2 | 2         | 1         |
| 9      | DCE210 | Building Planning and Drawing Lab         | 0            | 0 | 4 | 4         | 2         |
| 10     | DCE211 | Water Resource Engineering Lab            | 0            | 0 | 2 | 2         | 1         |
| 11     | DCE212 | Transportation Engineering Lab            | 0            | 0 | 2 | 2         | 1         |
| 12     | DCE3XX | Elective - I                              | 3            | 0 | 0 | 3         | 3         |
| 13     | DCEXXX | Minor Project                             | 0            | 0 | 4 | 4         | 2         |
| 14     | DHS001 | Essence of Indian Knowledge and Tradition | 2            | 0 | 0 | 2         | 0         |
|        |        | <b>SUB TOTAL</b>                          |              |   |   | <b>32</b> | <b>22</b> |

**FIFTH SEMESTER**

|               |        |                                       | <b>Contact Hour</b> |          |          |              |                |
|---------------|--------|---------------------------------------|---------------------|----------|----------|--------------|----------------|
| <b>S. No.</b> |        | <b>Subject Name</b>                   | <b>L</b>            | <b>T</b> | <b>P</b> | <b>Total</b> | <b>Credits</b> |
| 1             | DCE114 | Design of Steel and RCC structure     | 3                   | 0        | 0        | 3            | 3              |
| 2             | DCE115 | Estimating, Costing and valuation     | 2                   | 0        | 0        | 2            | 2              |
| 3             | DCE213 | Design of Steel and RCC structure Lab | 0                   | 0        | 2        | 2            | 1              |
| 4             | DCE214 | Estimating, Costing and valuation Lab | 0                   | 0        | 2        | 2            | 1              |
| 5             | DCE3XX | Elective - II                         | 3                   | 0        | 0        | 3            | 3              |
| 6             | DCE3XX | Elective -III                         | 3                   | 0        | 0        | 3            | 3              |
| 7             | DYYXXX | Open Elective - I                     | 3                   | 0        | 0        | 3            | 3              |
| 8             | DCEXXX | Summer Internship-II (6 weeks)        | 0                   | 0        | 0        | 0            | 3              |
| 9             | DCEXXX | Major Project - I                     | 0                   | 0        | 2        | 2            | 1              |
|               |        | <b>SUB TOTAL</b>                      |                     |          |          | <b>20</b>    | <b>20</b>      |

**SIXTH SEMESTER**

|               |        |                                | <b>Contact Hour</b> |          |          |              |                |
|---------------|--------|--------------------------------|---------------------|----------|----------|--------------|----------------|
| <b>S. No.</b> |        | <b>Subject Name</b>            | <b>L</b>            | <b>T</b> | <b>P</b> | <b>Total</b> | <b>Credits</b> |
| 1             | DCE116 | Public Health Engineering      | 2                   | 0        | 0        | 2            | 2              |
| 2             | DCE215 | Public Health Engineering Lab  | 0                   | 0        | 2        | 2            | 1              |
| 3             | DCE3XX | Elective - IV                  | 3                   | 0        | 0        | 3            | 3              |
| 4             | DHS102 | Entrepreneurship and Start-ups | 3                   | 1        | 0        | 4            | 4              |
| 5             | DYYXXX | Open Elective - II             | 3                   | 0        | 0        | 3            | 3              |
| 6             | DYYXXX | Open Elective - III            | 3                   | 0        | 0        | 3            | 3              |
| 7             | DHS002 | Indian Constitution            | 2                   | 0        | 0        | 2            | 0              |
| 8             | DCEXXX | Major Project - II             | 0                   | 0        | 6        | 6            | 3              |
| 9             | DCEXXX | Seminar                        | 1                   | 0        | 0        | 1            | 1              |
|               |        | <b>SUB TOTAL</b>               |                     |          |          | <b>26</b>    | <b>20</b>      |

**Total Credits for 120  
Diploma**

| Elective Courses                              |        |                                        |   |   |   |       |         |
|-----------------------------------------------|--------|----------------------------------------|---|---|---|-------|---------|
| S. No.                                        |        | Subject Name                           | L | T | P | Total | Credits |
| <b>Elective I (any one to be selected)</b>    |        |                                        |   |   |   |       |         |
| 1                                             | DCE301 | Precast and Prestressed concrete       | 3 | 0 | 0 | 3     | 3       |
| 2                                             | DCE302 | Construction Management                | 3 | 0 | 0 | 3     | 3       |
| 3                                             | DCE303 | Rural Construction Technology          | 3 | 0 | 0 | 3     | 3       |
| <b>Elective II ( any one to be selected)</b>  |        |                                        |   |   |   |       |         |
| 1                                             | DCE304 | Traffic Engineering                    | 3 | 0 | 0 | 3     | 3       |
| 2                                             | DCE305 | Solid Waste Management                 | 3 | 0 | 0 | 3     | 3       |
| 3                                             | DCE306 | Advanced Construction Technology       | 3 | 0 | 0 | 3     | 3       |
| <b>Elective III ( any one to be selected)</b> |        |                                        |   |   |   |       |         |
| 1                                             | DCE307 | Pavement Design & maintenance          | 3 | 0 | 0 | 3     | 3       |
| 2                                             | DCE308 | Green Building and Energy Conservation | 3 | 0 | 0 | 3     | 3       |
| 3                                             | DCE309 | Building Services and Maintenance      | 3 | 0 | 0 | 3     | 3       |
| <b>Elective IV ( any one to be selected)</b>  |        |                                        |   |   |   |       |         |
| 1                                             | DCE310 | Repairs and Maintenance of Structures  | 3 | 0 | 0 | 3     | 3       |
| 2                                             | DCE311 | Advanced Design of Structures          | 3 | 0 | 0 | 3     | 3       |
| 3                                             | DCE312 | Tendering and Accounts                 | 3 | 0 | 0 | 3     | 3       |