**COURSE STRCUTURE FOR UG ENGINEERING UNDER**

**DIBRUGARH UNIVERSITY**

**CIVIL ENGINEERING**

**SEMESTER I**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl No. | Course Code | Course Title | L | T | P | Contact hrs/wk | Credit |
| 01 | HS1C01 | Sociology | 2 | 0 | 0 | 2 | 2 |
| 02 | HS1C02 | Business Communications | 2 | 0 | 0 | 2 | 2 |
| 03 | MA1C01 | Mathematics I | 3 | 1 | 0 | 4 | 4 |
| 04 | PH1C01 | Applied Physics I | 3 | 1 | 0 | 4 | 4 |
| 05 | PH1C02 | Applied Physics Laboratory I | 0 | 0 | 2 | 2 | 1 |
| 06 | CH1C01 | Engineering Chemistry I | 3 | 1 | 0 | 4 | 4 |
| 07 | CH1C02 | Engineering Chemistry Laboratory I | 0 | 0 | 2 | 2 | 1 |
| 08 | CE1C01 | Engineering Graphics | 1 | 3 | 0 | 4 | 4 |
| 09 | EE1C01 | Basic Electrical Engineering | 3 | 1 | 0 | 4 | 4 |
| 10 | EE1C02 | Basic Electrical Engineering Laboratory | 0 | 0 | 2 | 2 | 1 |
| 11 | ME1C01 | Engineering Workshop I | 0 | 0 | 2 | 2 | 1 |
| **Total** | | | | | | **32** | **28** |

**SEMESTER II**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl No. | Course Code | Course Title | L | T | P | Contact hrs/wk | Credit |
| 01 | HS1C03 | Economics for Engineers | 2 | 0 | 0 | 2 | 2 |
| 02 | HS1C04 | Presentation Skills | 1 | 2 | 0 | 3 | 2 |
| 03 | MA1C02 | Mathematics II | 3 | 1 | 0 | 4 | 4 |
| 04 | PH1C03 | Applied Physics II | 3 | 1 | 0 | 4 | 4 |
| 05 | PH1C04 | Applied Physics Laboratory II | 0 | 0 | 2 | 2 | 1 |
| 06 | CH1C03 | Engineering Chemistry II | 3 | 1 | 0 | 4 | 4 |
| 07 | CH1C04 | Engineering Chemistry Laboratory II | 0 | 0 | 2 | 2 | 1 |
| 08 | CS1C01 | Computer Programming | 3 | 0 | 0 | 3 | 3 |
| 09 | CS1C02 | Computer Programming Laboratory | 0 | 0 | 2 | 2 | 1 |
| 10 | ME1C02 | Engineering Mechanics | 3 | 1 | 0 | 4 | 4 |
| 11 | ME1C03 | Engineering Mechanics Laboratory | 0 | 0 | 2 | 2 | 1 |
| 12 | ME1C04 | Engineering Workshop II | 0 | 0 | 2 | 2 | 1 |
| **Total** | | | | | | **34** | **28** |
| 13 | AC1C01 | Environmental studies |  |  |  |  | 0 |

**SEMESTER III**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl No. | Course Code | Course Title | L | T | P | Contact hrs/wk | Credit |
| 01 | MA2C01 | Mathematics III | 3 | 1 | 0 | 4 | 4 |
| 02 | CE2C01 | Concrete Technology | 3 | 1 | 0 | 4 | 4 |
| 03 | CE2C02 | Building Material & Construction | 3 | 1 | 0 | 4 | 4 |
| 04 | CE2C03 | Structural Analysis I | 3 | 1 | 0 | 4 | 4 |
| 05 | CE2C04 | Engineering Surveying I | 3 | 1 | 0 | 4 | 4 |
| 06 | CE2C05 | Civil Engineering Drawing | 3 | 1 | 0 | 4 | 4 |
| 07 | CE2C06 | Concrete Technology Laboratory | 0 | 0 | 2 | 2 | 1 |
| 08 | CE2C07 | Engineering Surveying Laboratory I | 0 | 0 | 6 | 6 | 3 |
| **Total** | | | | | | **32** | **28** |
| 09 | AC2C01 | Language laboratory | 0 | 0 | 4 | 4 | 0 |

**SEMESTER IV**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl No. | Course Code | Course Title | L | T | P | Contact hrs/wk | Credit |
| 01 | MA2C02 | Mathematics IV | 3 | 1 | 0 | 4 | 4 |
| 02 | CE2C08 | Engineering Geology | 3 | 1 | 0 | 4 | 4 |
| 03 | CE2C09 | Engineering Surveying II | 3 | 1 | 0 | 4 | 4 |
| 04 | CE2C10 | Structural Analysis II | 3 | 1 | 0 | 4 | 4 |
| 05 | CE2C11 | Transportation Engineering I | 3 | 1 | 0 | 4 | 4 |
| 06 | CE2C12 | Hydraulics I | 3 | 1 | 0 | 4 | 4 |
| 07 | CE2C13 | Engineering Surveying Laboratory II | 0 | 0 | 6 | 6 | 3 |
| 08 | CE2C14 | Engineering Geology | 0 | 0 | 2 | 2 | 1 |
| **Total** | | | | | | **32** | **28** |
| 09 | AC2C01 | Language laboratory | 0 | 0 | 4 | 4 | 0 |

**SEMESTER V**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl No. | Course Code | Course Title | L | T | P | Contact hrs/wk | Credit |
| 01 | MA3C01 | Mathematics V | 3 | 1 | 0 | 4 | 4 |
| 02 | CE3C01 | Hydraulics II | 3 | 1 | 0 | 4 | 4 |
| 03 | CE3C02 | Transportation Engineering II | 3 | 1 | 0 | 4 | 4 |
| 04 | CE3C03 | Environmental Engineering I | 3 | 1 | 0 | 4 | 4 |
| 05 | CE3C04 | Geotechnical Engineering I | 3 | 1 | 0 | 4 | 4 |
| 06 | CE3C05 | Reinforced Concrete Design I | 3 | 1 | 0 | 4 | 4 |
| 07 | CE3C06 | Transportation Engineering Laboratory | 0 | 0 | 2 | 2 | 1 |
| 08 | CE3C07 | Environmental Engineering Laboratory | 0 | 0 | 2 | 2 | 1 |
| 09 | CE3C08 | Hydraulics Laboratory | 0 | 0 | 2 | 2 | 1 |
| 10 | CE3C09 | Geotechnical Engineering Laboratory | 0 | 0 | 2 | 2 | 1 |
| **Total** | | | | | | **32** | **28** |

**SEMESTER VI**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl No. | Course Code | Course Title | L | T | P | Contact hrs/wk | Credit |
| 01 | HS3C01 | Introduction to Accountancy & Management | 3 | 1 | 0 | 4 | 4 |
| 02 | CE3C10 | Hydraulics III | 3 | 1 | 0 | 4 | 4 |
| 03 | CE3C11 | Environmental Engineering II | 3 | 1 | 0 | 4 | 4 |
| 04 | CE3C12 | Geotechnical Engineering II | 3 | 1 | 0 | 4 | 4 |
| 05 | CE3C13 | Structural Analysis III | 3 | 1 | 0 | 4 | 4 |
| 06 | CE3EXX | Elective I | 3 | 1 | 0 | 4 | 4 |
| 07 | CE3C14 | Mini Project | 0 | 0 | 3 | 3 | 3 |
| 08 | CE3C15 | Industrial/Professional Training | 0 | 0 | 0 | 0 | 1 |
| **Total** | | | | | | **27** | **28** |

**SEMESTER VII**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl No. | Course Code | Course Title | L | T | P | Contact hrs/wk | Credit |
| 01 | CE4C01 | Professional Practice & Construction Technology | 3 | 1 | 0 | 4 | 4 |
| 02 | CE4C02 | Estimating and Valuation | 3 | 1 | 0 | 4 | 4 |
| 03 | CE4C03 | Reinforced Concrete Design II | 3 | 1 | 0 | 4 | 4 |
| 04 | CE4C04 | Hydrology and Irrigation Engineering | 3 | 1 | 0 | 4 | 4 |
| 05 | CE4EXX | Elective II | 3 | 1 | 0 | 4 | 4 |
| 06 | CE4C05 | Seminar Presentations | 0 | 0 | 4 | 4 | 2 |
| 07 | CE4C06 | Project I | 0 | 0 | 6 | 6 | 6 |
| **Total** | | | | | | **30** | **28** |

**SEMESTER VIII**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl No. | Course Code | Course Title | L | T | P | Contact hrs/wk | Credit |
| 01 | CE4C07 | River Engineering and Flood Control | 3 | 1 | 0 | 4 | 4 |
| 02 | CE4C08 | Building Planning | 3 | 1 | 0 | 4 | 4 |
| 03 | CE4C09 | Steel Design | 3 | 1 | 0 | 4 | 4 |
| 04 | CE4EXX | Elective III | 3 | 1 | 0 | 4 | 4 |
| 05 | CE4C10 | Comprehensive Viva-Voce | 0 | 0 | 4 | 4 | 2 |
| 06 | CE4C11 | Project II | 0 | 0 | 10 | 10 | 10 |
|  |  |  |  |  |  | **30** | **28** |

**SUBJECTS FOR ELECTIVE I, II& III**

|  |  |
| --- | --- |
| **Course Serial Number(XX)** | **Name of subjects** |
| 01 | Disaster Management |
| 02 | Pavement Design |
| 03 | Ground Improvement |
| 04 | Remote Sensing & GIS |
| 05 | Water Quality & water management |
| 06 | Pollution & Control Engineering |
| 07 | Traffic Engineering |
| 08 | Water Resources Engineering |
| 09 | Bridge Engineering |
| 10 | Geotechnical in situ testing and exploration & geotechnical instrumentation |
| 11 | Engineering Optimization |
| 12 | Environmental Assessment Methodologies |
| 13 | Design of Hydraulic Structure |
| 14 | Industrial Waste Treatment & Disposal |
| 15 | Geometric Design of transportation facilities |
| 16 | Environmental Geotechnique and Geosynthetics |
| 17 | Advanced Wastewater Engineering |
| 18 | Reinforced Soil Structure |
| 19 | Advanced Foundation Engineering |
| 20 | Advanced Structural Design |
| 21 | Finite Element Method |
| 22 | Elements of Earthquake Engineering |