**N.B.K.R. INSTITUTE OF SCIENCE & TECHNOLOGY:: VIDYANAGAR**

Approved in the BOS meetingheld on 16.09.2022

*(AUTONOMOUS)*

**CIVIL ENGINEERING**

**SCHEME OF INSTRUCTION AND EVALUATION**

(With effect from the batch admitted in the academic year 2020-2021)

**III YEAR OF FOUR YEAR B.TECH. DEGREE COURSE – I SEMESTER**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| S.NO | Course  Code | | Course Title | Contact Hours/  Week | | | Credits | Evaluation | | | | | | | | | | | | | | | | | | | | |
| Sessional  Test-I | | | | | | | | Sessional  Test-II | | | | | | | Total Sessional Marks (Max. 40) | | | Semester  End Examination | | Max.  Total Marks |
| **THEORY** | L | T | P | Test-I  (2 hrs.) | | Assignment-I | Max.  Marks | | | | | Test-II  (2 hrs.) | | | Assignment-II | | | Max.  Marks | 0.8(Better of two sessional tests)  +  0.2(Other) | | | Duration  In Hours | Max. Marks |
| 1 | 20CE3101 | | Elemental Design of RC structures | 2 | 1 | 0 | 3 | 34 | | 6 | 40 | | | | | 34 | | | 6 | | | 40 | 3 | 60 | 100 |
| 2 | 20CE3102 | | Concrete Technology | 3 | 0 | 0 | 3 | 34 | | 6 | 40 | | | | | 34 | | | 6 | | | 40 | 3 | 60 | 100 |
| 3 | 20CE3103 | | Steel Structural design | 2 | 1 | 0 | 3 | 34 | | 6 | 40 | | | | | 34 | | | 6 | | | 40 | 3 | 60 | 100 |
|  | | | **OPEN ELECTIVE COURSE/JOB ORIENTED COURSE** | | | | | | | | | | | | | | | | | | | |  | | |
| 4 | 20XX3101 | | *Open Elective Course*  */Job Oriented Course\** | 3 | 0 | 0 | 3 | 34 | | 6 | 40 | | | | | 34 | | | 6 | | | 40 | 3 | 60 | 100 |
| 5 | 20CE31EX | | **Professional Elective-I** | 3 | 0 | 0 | 3 | 34 | | 6 | 40 | | | | | 34 | | | 6 | | | 40 | 3 | 60 | 100 |
|  | | | **PRACTICALS** |  | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 20CE31P1 | | Concrete Technology Laboratory | 0 | 0 | 3 | 1.5 | - | - | | | - | | | | | - | | | - | | - | | Day-to-day Evaluation and a test  (40 marks) | | 3 | 60 | 100 |
| 2 | 20CE31P2 | | CACED Lab | 0 | 0 | 3 | 1.5 | - | - | | | - | | | | | - | | | - | | - | | 3 | 60 | 100 |
|  |  | | **SKILL ADVANCEDCOURSE / SOFT SKILL COURSE** | | | | | | | | | | | | | | | | | | | | |  | | |
| 1 | 20CE31SC | | Revit Architecture | 0 | 0 | 4 | 2 | - | - | | | - | | | | | - | | | - | | - | | 3 | 60 | 100 |
|  |  | | **MANDATORY COURSE** | | | | | | | | | | | | | | | | | | | | | 0.8(Better of two)  +  0.2(Other) | |  | | |
| 1 | 20MC3101 | | *Advanced Aptitude and Reasoning Skills* | 2 | 0 | 0 | 0 | 34 | 6 | | | 40 | | | | | 34 | | | 6 | | 40 | | 3 | 60 | 100 |
|  |  | | **INTERNSHIP:** | | | | | | | | | | | | | | | | | | | | | | |  | | |
| 1 | 20CE31IS | | Summer Internship  (Community Service Projects) | 0 | 0 | 0 | 1.5 | - | | - | | | - | | - | | | - | | | - | | | 40 marks | | - | 60 | 100 |
|  |  | | **TOTAL** |  |  |  | **21.5** |  | | | | | | | | | | | | | | | | | | | | |
| 1 | 20xx31xx | | Honors/Minor Course | 4 | 0 | 0 | 4 | The hours distribution can be 3-0-2 or 3-1-0 also | | | | | | | | | | | | | | | | | | | | |
| **Professional Elective-I:** | | **20CE31E1**: **Hydraulics & Hydraulic Machineries** 20CE31E2: Ground Water Hydrology | | | | | | | | | | | | 20CE31E3: Traffic Engg. & Management | | | | | | | | | | | 20CE31E4: Adv. Foundation Engg. | | | |
| *\**Any one of the open electives (III-I/III-II/IV-I) during the four year UG Programme may be taken by the students under MOOCs. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |