**NBKR INSTITUTE OF SCIENCE & TECHNOLOGY :: VIDYANAGAR**

*(AUTONOMOUS)*

**CIVIL ENGINEERING**

SCHEME OF INSTRUCTION AND EVALUATION

(With effect from the batch admitted in the academic year 2013-2014)

**II YEAR OF FOUR YEAR B.TECH. DEGREE COURSE – II SEMESTER**

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| --- | --- | --- | --- | --- | --- |
| S.No. | CourseCode | Course Title | Contact Hours/Week | Cred-its | Evaluation |
| SessionalTest-I | SessionalTest-II | Total Sessional Marks (Max. 40) | Semester EndExamination | Max.Total Marks |
| **THEORY** | L | P | T |  | Durationin Hours | Max.Marks | Durationin Hours | Max.Marks | 0.8(Better of two sessional tests)+0.2(Other) | Durationin Hours | Max.Marks |  |
| 1 | 13CE2201 | Strength of materials | 3 | - | 1 | 4 | 2 | 40 | 2 | 40 | 3 | 60 | 100 |
| 2 | 13CE2202 | Fluid Mechanics - II | 3 | - | 1 | 4 | 2 | 40 | 2 | 40 | 3 | 60 | 100 |
| 3 | 13CE2203 | Soil Mechanics | 3 | - | 1 | 4 | 2 | 40 | 2 | 40 | 3 | 60 | 100 |
| 4 | 13CE2204 | Transportation Engineering - I | 4 | - | - | 4 | 2 | 40 | 2 | 40 | 3 | 60 | 100 |
| 5 | 13CE2205 | Building Planning & Drawing | 1 | 3 | - | 4 | 2 | 40 | 2 | 40 | 3 | 60 | 100 |
| 6 | 13CE2206 | Surveying - II  | 3 | - | 1 | 4 | 2 | 40 | 2 | 40 | 3 | 60 | 100 |
|  | **PRACTICALS** |  |  |  |  |
| 1 | 13CE22P1 | Surveying Laboratory - II | - | 3 | - | 2 | - | - | - | - | Day-to-day Evaluation and a test | 3 | 60 | 100 |
| 2 | 13CE22P2 | Fluid Mechanics & Hydraulic Machinery Laboratory | - | 3 | - | 2 | - | - | - | - | 3 | 60 | 100 |
|  |  | **TOTAL** | **17** | **09** | **04** | **28** |  |  |  |  |  |  | **800** |

**Note:-** *Survey camp for a duration of 10 days to be conducted before the last day of instruction for II B.Tech, II – Sem. This shall be evaluated as part of Survey Laboratory –II.*

**13CE2205 - BUILDING PLANNING AND DRAWING**

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| --- | --- | --- | --- |
| **Course category:** | Program core | **Credits:** | 4 |
| **Course Type:** | Theory | **Lecture - Tutorial - Practical:** | 1 - 3 - 0 |
| **Prerequisite:** | **Building Technology** | **Sessional Evaluation :****Univ.Exam Evaluation:****Total Marks:** | 4060100 |

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| --- | --- | --- |
| **Course Outcomes** | CO1 | Understand the terms in building drawing, and able to apply the NBC standards in building drawing. |
| CO2 | Be able to plan various types of buildings. |
| CO3 | Be familiar with plan approval procedure. |
| CO4 | Be able to draw various components of buildings. |
| CO5 | Be able to prepare detailed drawings of a two story building. |
| **Course Content** | **Part-A (Theory)****INTRODUCTION:** Terms used in building drawing as per NBC – Factors affecting in selection of site – Functional requirements of a residential building – Minimum size requirements as per NBC - Standard sizes of Door, Windows and ventilators**PLANNING:** Principles of planning – Factors to be considered in Planning – Planning of residential , office , school and hospital buildings– Preliminaries of vaastu.Municipal bye-Law – List of documents to be submitted for building plan approval**Part-B (Drawing)**Standard conventional signs and symbols used in Civil Engineering Drawing – Bonds in brick masonry – Paneled and flush doors – Glazed windows – Steel Roof Truss Preparation of Plan, Section and Elevation of simple residential buildings with flat roof not exceeding two storeys.**EVALUATION:**1. For University Examination, two out of three questions to be answered from Part–A (Theory) for 30 marks (i.e. 2x15=30). And one compulsory drawing question to be answered from Part-B (Drawing) for 30 marks (i,e.1x30=30)
2. For internal evaluation, a weightage of 20 marks out of a total of 40 marks to be given for day‑to‑day work.
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| **Text Books and reference Books:** | **TEXT BOOKS:**1. Building Planning and Drawing by Dr. N. Kumara Swamy & A. Kameswara Rao
2. Building Planning Design and Scheduling by Gurucharan Singh & Jagadish Singh

**REFERENCE BOOKS:**1. Building Drawing by Shah M.H and Kale C.M.

Civil Engineering Drawing & House planning by B.P.Verma. |