

## C.U.SHAH UNIVERSITY – Wadhwan City



**FACULTY OF:** -Technology and Engineering (Diploma Engineering)

**DEPARTMENT OF:** -Civil Engineering

**SEMESTER:** - V                      **CODE:** -2TE05PRT1

**NAME** – Project-I

### Teaching & Evaluation Scheme:-

| Subject Code | Subject Name | Teaching Scheme (Hours) |    |    |       | Credits | Evaluation Scheme |       |                 |       |                   |    |            |    |       |
|--------------|--------------|-------------------------|----|----|-------|---------|-------------------|-------|-----------------|-------|-------------------|----|------------|----|-------|
|              |              | Th                      | Tu | Pr | Total |         | Theory            |       |                 |       | Practical (Marks) |    |            |    | Total |
|              |              |                         |    |    |       |         | Sessional Exam    |       | University Exam |       | Internal          |    | University |    |       |
|              |              |                         |    |    |       |         | Marks             | Hours | Marks           | Hours | Pr                | TW | Pr         | Tw |       |
| 2TE05PRT1    | Project-I    | 00                      | 00 | 08 | 08    | 04      | ---               | ---   | ---             | ---   | --                | 50 | 50         | -- | 100   |

**Objectives:** Students will be able to:

- 1) Collect the information for a given project.
- 2) Apply principles, theorems and bye-laws in the project planning and design.
- 3) Interpret and analyze the data.
- 4) Develop professional abilities such as persuasion, confidence, perseverance and Communication skill I.
- 5) Develop presentation skill.
- 6) Enhance creative thinking.

**Pre-requisite** a Civil Engineer is concerned with the basic needs of living beings such as shelter, Water and environment. He has to supervise the construction of buildings and structures for irrigation, transportation, water supply and sanitary system etc. This subject is intended to apply civil engineering principles, rules and regulations to solve a real life problem and to provide a feasible solution. For this he will collect data through survey work and contacting various resources and prepare drawings and write a Detailed project report.

### Course contains

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| <b>General Guidelines for the</b>                           |
| <b>The project report shall be in the following format:</b> |
| 1. Topic and objectives                                     |
| 2. Selection of Site / Place                                |
| 3. Collection of data, required survey work and Leveling    |
| <b>LIST OF CIVIL ENGINEERING PROJECTS CAN BE :</b>          |
| 1) Khet Talavadi / Weir                                     |
| 2) Lift Irrigation scheme.                                  |
| 3) Micro irrigation –Drip / Sprinkler Irrigation.           |

|  |  |
|--|--|
| 4) Junction planning for city roads/planning for roads for congested area/parking Studies  |  |
| 5) Water shed development of small catchments.   |  |
| 6) Rain water harvesting for domestic or public building.  |  |
| 7) Campus development.   |  |
| 8) Interior decoration.  |  |
| 9) Concrete mix design.  |  |
| 10) Bridge design.   |  |
| 11) Non Destructive Testing of any RCC building.   |  |
| 12) Solid waste management.  |  |
| 13) Hospital waste disposal.   |  |
| 14) Recycling of resources.  |  |
| 15) Manufacturing of Pre cast concrete products.   |  |
| 16) Pre stressed concrete.   |  |
| 17) Non-conventional sources of energy.  |  |
| 18) Concrete pipe manufacturing unit.  |  |
| 19) Advance construction techniques.   |  |
| 20) Transfer of technology to villages.  |  |
| 21) Planning and design for residential colony, apartments or commercial complex.  |  |
| 22) Planning and design of water treatment plant for given data / site.  |  |
| 23) Planning and design of water supply scheme for given lay out / site.   |  |
| 24) Planning and design of sewage treatment plant for given data / site.   |  |
| 25) Planning and design of sanitary scheme for given lay out / site.   |  |
| Any other similar project can be selected.   |  |
| <p><b>Term Work:</b> Skills to be developed:</p> <p>Intellectual skills:</p> <p>i. Decide and collect data for projects. ii. Read and interpret the drawing, data. iii. Design the components. iv. Apply the principles rules regulations and byelaws.</p> <p><b>Note for all students</b></p> <p><b>1 group maximum 3 students are working</b></p> <p><b>Learning outcomes:</b> The project and seminar activities will provide students the exposure to handle real life problems and their solutions and prepare him to enter in the world of work.</p> |  |