

**COURSE NAME : Civil Engineering Group**  
**COURSE CODE : CE/CR/CV/CS**  
**SEMESTER/YEAR : Fifth for CE/CS/CR and Sixth for CV**  
**SUBJECT TITLE : PROFESSIONAL PRACTICES - III**  
**SUBJECT CODE :**

**Teaching and Examination Scheme:**

| Teaching Scheme |    |    | Examination Scheme |    |    |    |     |       |
|-----------------|----|----|--------------------|----|----|----|-----|-------|
| TH              | TU | PR | PAPER HRS.         | TH | PR | OR | TW  | TOTAL |
| --              | -- | 03 | --                 | -- | -- | -- | 50@ | 50    |

@ Internal Assessment, # External Assessment, \* Online Examination

**Rationale:**

Due to globalization and competition in the private and service sectors, the employment is based either on campus interview competitive test. In such process of selection normally the competencies like general confidence, leadership, and communication and presentation skill, problem solving techniques are normally ascertained through various tests.

The topic on group discussion will provide an opportunity for development of confidence in the students and enhance the communication and presentation skills.

Through information the student will be trained in assessing the information from various means and presenting the information in the specific format.

Various industrial visits will provide an avenue to a student to observe and understand various construction processes in the construction industry. Visits will expose a student to newer and latest technology, material and use of various machines in the construction industry. This will further impose his theoretical knowledge and may encourage him to become versatile in the profession as a diploma engineer.

## **Learning Structure:**

**Practicals:**

**Objectives:**

**To develop the following skills**

**Intellectual Skills:**

1. Understand Leadership and problem solving skill through group discussion.
2. Understand the Preparation of legal documents of project.
3. Assess quality control parameters at site.
4. Give feasible solution for the burning problems for the benefit of society.

**Motor Skills:**

1. Do Information search.
2. Enlist information and data.
3. Take Field observations.
4. Prepare power point presentation.

## **LEARNING STRUCTURE:**

**Application**

**Procedure**

**Concept**

**Facts**

### List of Activities

| Name of the activity   | Hours | Marks |
|--|-------|-------|
| <b>1.GROUP DISCUSSION/ EXPERT LECTURE<br/>(any one topic per batch)</b> Suggested areas are,<br>i) Safety measures at construction site<br>ii) Green building<br>iii) Disaster Management<br>iv) New Trends in Civil Engineering as a service industry/Future challenges in Civil Engineering.                 | 06    | -     |
| <b>2. INFORMATION SEARCH AND DATA COLLECTION<br/>(Any one topic)</b><br>i) Housing project<br>ii) Legal documents required for an apartment building, such as P.R Card,7/12,city survey map, sale-deed, N.A. order, building permission and completion certificate.<br>(List and collect all sample documents) | 12    |       |
| <b>3. INDUSTRIAL VISIT (Any one)</b><br>i) RCC framed structure building for study of its detail.<br>ii) Residential /Public building to study plumbing system<br>iii) Dam/canal/spill-way and gates.<br>iv) Water treatment/ sewage treatment plant.  | 12    |       |
| <b>4. SEMINAR/POWER POINT PRESENTATION<br/>(Any one)</b><br>The seminar topic should be related to the latest technology/problems pertaining to civil engineering. Each student shall submit a report of 10to20 pages and deliver seminar for 10 minutes.  | 18    |       |
| <b>Total</b>   | 48    | --    |

## **List of assignment to be done by each student as a term work.**

### **1. Report on Group Discussion**

The report should consist of: Name of topic, date of discussion, group size, name of group leader, introduction of the topic, concept, need, procedure, causes, sequence / operation, new trends, preventive measures, benefits to the society, conclusion(report should be of 3 to 5 pages).

### **2. Report on information search and data collection**

The report should consist of: Title, Introduction, Need, list of documents/ photos/ information searched from internet/ magazines/ reference books/Xerox document from Government Office to be attached and conclusion of the exercise. Help of owner/contractor/site engineer/ architect etc. may be taken.

### **3. Report on industrial visit**

The report should consist of: Title, date of visit, place of visit, address of the project, contact numbers, type of the project, cost of the project/unit, Material Management, Labour Management, Tools and plants management, advanced techniques used, out put of the project, safety measures, flow chart, Xerox copies of plans/layout/drawings and conclusion.

### **4. Seminar/power point presentation:**

The report should consists of : Name of topic, introduction, concept, facts, principles, procedures, latest technology, problem, literature ,solutions, benefits to the society, alternative methods, cost and benefit ratios, feasibility of the project, sample calculations and approximate costing, Xerox copies of drawings, layout, line plan, flow chart, pie chart or any graphical representation and conclusion etc. for the work / topic of the seminar. Presentation of 10 mints is expected.

### **Learning Resources:**

1. Indian concrete journal
2. Indian water works association journal
3. Inside outside journal
4. A to Z construction by Mantri Publishing House.
5. District Industries Centre –Project reports
6. Building bye laws and rules of local bodies/ Town planning Acts.
7. Professional communication skills ( Revised edition ) by A.K. Jain, S. Chand & Co. Ltd New Delhi.
8. Technical communication with CD by Kogent Learning solutions by Wiley India Publications.
9. Effective Technical communication by Ashraf Rizvi, Tata McGrahill New Delhi.
10. Guide to Presentations third editions by Mary Munter, Pearson Education.
11. The ACE of Soft Skills, Attitude, communication, and etiquettes for success 1<sup>st</sup> edition by Gopalswamy Ramesh by Pearson Education.
12. Internet web sites.  
[www.slideshow.com](http://www.slideshow.com)  
[www. Maharashtra.gov.in](http://www.Maharashtra.gov.in)