

	Course Title: <b>IN-PLANT TRAINING</b>		
	Hours (L:T:P) <b>0:0:4</b>	Total Contact Hours: 52	Course Code: 15CE67P
	Type of Course: <b>In-plant training/ Field training</b>	<b>Credit : 02</b>	Core/ Elective: <b>Core</b>
CIE – 25 Marks			

**Pre-requisite:** Knowledge of Civil Engineering.

**Course objectives**

1. To expose students to the working environment of the construction industry and make them familiar with construction activities undertaken in field.
2. To enable them to integrate theory with practice and develop as professional Civil engineers in the competitive construction field.
3. To give importance to practical aspects of the field and prepare engineers for future challenges.
4. To develop students' ability to think strategically, and to lead, motivate and work with teams.
5. To enhance written and oral communication competencies to technical effectiveness of relevant articles and real time projects.

*On successful completion of the course, the students will be able to:*

Course Outcome		CL	Linked PO	Visiting Hrs
<b>CO1</b>	Experience the industrial environment, recognize the requirement of the industry and cope up with the industrial circumstances.	<b>U/Ap/Ay</b>	1,2,3,4,5,6,7,8,9,10	4 hours per week
<b>CO2</b>	Recognize career paths taking into account their individual abilities and prepare a report about the work experience in the industry.	<b>U/Ap/Ay</b>	1,2,3,4,5,6,7,8,9,10	
<b>CO3</b>	Communicate effectively about the training through technical presentation.	<b>U/Ap/Ay</b>	1,2,3,4,5,6,7,8,9,10	
<b>CO4</b>	Develop their employability and start-up skills and to enhance the ability to engage in, life-long learning.	<b>U/Ap/Ay</b>	1,2,3,4,5,6,7,8,9,10	
<b>CO5</b>	Develop individual confidence to handle various engineering assignments and ability to think strategically, and to lead, motivate and <b>work</b> with teams	<b>U/Ap/Ay</b>	1,2,3,4,5,6,7,8,9,10	

Legend- R: Remember U: Understand Ap: Application Ay: Analysis C: Creation E: Evaluation

## Programme outcome Attainment Matrix

Course	Programme Outcome									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
	Basic knowledge	Discipline knowledge	Experiments and Practice	Engineering Tools	Engineer and society	Environment & Sustainability	Ethics	Individual and Team work	Communication	Life long learning
IN-PLANT TRAINING	3	3	3	3	3	3	3	3	3	3

### Level 3- Highly Addressed, Level 2-Moderately Addressed, Level 1-Low Addressed.

Method is to relate the level of PO with the number of hours devoted to the COs which address the given PO. If >40% of classroom sessions addressing a particular PO, it is considered that PO is addressed at Level 3  
 If 25 to 40% of classroom sessions addressing a particular PO, it is considered that PO is addressed at Level 2  
 If 5 to 25% of classroom sessions addressing a particular PO, it is considered that PO is addressed at Level 1  
 If < 5% of classroom sessions addressing a particular PO, it is considered that PO is considered not-addressed.

## Course Guidelines

Civil engineering diploma students have to undergo in-plant training

1. In-plant training is a course of training in any industry or establishment undergone by the student of final year diploma in civil engineering in pursuance of the memorandum of understanding between industry and department of the concerned institute.
2. Industry means any construction industry including Government, Public or Private sector in the field of Civil engineering or technology in which any trade, occupation or subject may be specified as a designated trade. Establishment includes any place where any industrial work is carried out.
3. Students have to identify an establishment, firm or organisation (industry) involved in the field of civil engineering projects. The HOD and concerned faculty will guide and help students in identifying the project. Assistance from Industry Institute Interaction cell may also be taken.

Fifth semester civil engineering diploma students have to undergo in-plant training in any one of the following Departments/ industries/ Agencies /projects.

- |   |  |
|---|--|
| a. Public sector enterprises                          | g. Rural Development and Panchayath raj Department |
| b. State government undertaking                       | h. Water Treatment Plants                          |
| c. Public limited companies                           | i. Sewage treatment plants                         |
| d. Private limited companies                          | j. Minor Irrigation department                     |
| e. Individual ownership organisations                 | k. Irrigation department                           |
| f. Karnataka Rural Infrastructure Development Limited | l. Public works department                         |
|   | m. Land Army                                       |

- |  |  |
|--|--|
| n. Karnataka Housing board                     | cc. Road/ Bridge Projects                |
| o. Town planning department                    | dd. Local cement industries              |
| p. Urban Development authorities               | ee. Brick Manufacturing industries       |
| q. Zilla Nirmiti Kendra                        | ff. Tile Manufacturing industries        |
| r. Department of Surveys                       | gg. Quarries and crushers                |
| s. Water supply boards                         | hh. M-sand plants                        |
| t. Municipal/City/Town corporations            | ii. Steel structure fabrication workshop |
| u. Minor irrigation department                 | jj. Solid waste management unit          |
| v. Irrigation Department                       | kk. Local contractors                    |
| w. Karnataka Industrial Area Development board | ll. Solar manufacturers                  |
| x. Karnataka State Highway Improvement Project | mm. Private Consultants                  |
| y. RMC plants                                  | nn. Construction Companies               |
| z. Local Concrete block preparation units      | oo. Material Testing Labs                |
| aa. Cement industries                          | pp. Wood Industries                      |
| bb. Precast yards                              | qq. Laterite block manufacturing units.  |
|  | rr. Panchayatraj Engineering department  |

1. This activity may be taken up immediately after V Semester examinations and continued in VI semester .How ever Training can be scheduled as per the mutual co-ordination agreed by the course co-ordinator & officer In charge -Industry.
2. To follow the Rules and Regulations of the Industry/Establishment in all matters of conduct and discipline.
3. The students are required to enrol with the industry.
4. The student will take instructions from the agencies involved in the identified project. It is suggested that a training schedule be drawn for each student before starting of the training in consultation with the training providers.
5. The student has to keep the concerned faculty about the progress of the training. The progress of the student is to be assessed by the concerned faculty by conducting three reviews, one each during or after the theory tests. The faculty should visit the field or site at least two times during the in-plant training.
6. The students should submit the in-plant training evaluation form as per Annexure-1 duly signed by the officer in-charge of training from the industry before each review. The evaluation form is shown at the end of this course curriculum.

#### **D. Monitoring of Implant Training**

1. At the end of the course each student has to submit a report which will be consisting of a certificate from the Officer in-charge of training from the industry highlighting the topics to which the student is exposed to in the field. The student is required to make a presentation of the skills that he has acquired during the in plant training.

#### **E. Internal practical examination**

1. . The assessment of the internal shall consist of
  - A. Seminar Performance
  - B. An oral on the work done.
  - C. Assessment of the term work.(Annexure1)

## Course Assessment and Evaluation Scheme:

	What		To whom	When/Where (Frequency in the course)	Max Marks	Evidence collected	Course outcomes
Direct Assessment	CIE	IA	Students	Review 1	25	Presentation & Report (Annexure1&2)	CO1 to CO5
				Review 2			
				Review 3			
	SEE			End of the course	No end Exam		
Indirect Assessment	Student Feedback on course		Students	Middle of the course		Feedback forms	CO1 to CO5 Delivery of course
	End of Course Survey			End of the course		Questionnaires	CO1 to CO5 Effectiveness of Delivery of instructions & Assessment Methods

*Note to IA verifier:*

*The following documents to be verified by CIE verifier at the end of semester*

1. Student feedback on course regarding Effectiveness of Delivery of instructions & Assessment Methods.

**ANNEXURE 1**

**IN-PLANT TRAINING EVALUATION FORM \***

**FOR THE STUDENTS OF FINAL YEAR DIPLOMA IN CIVIL ENGINEERING**

**\* The Evaluation form is only a sample. Alternate evaluation form by the concerned industry where the student has undergone training may also be considered.**

Date:

Name of the Student and Reg. No. :

Branch :

Implant training Offered : From To

Evaluation of the Student may be done with the following letter grades. The grade point for the letter grades is given below.

<b>Grades</b>	A	B	C	D	E (Low)
<b>Points</b>	5	4	3	2	1

<b>S.No</b>	<b>Parameters</b>	<b>Grade Awarded</b>
1.	Knowledge Acquired During Internship	
2.	Ability to use Techniques and Methods Appropriate for Assignments	
3.	Ability to Display the Technical Skills required	
4.	Ability to Organize, Classify and Deliver the job	
5.	Perseverance to Complete the job	
6.	Takes Initiative and Works with Minimal Supervision	
7.	Attendance and Punctuality	
8.	Ability to Establish Positive Relationships with the Managers and Peers	
9.	Personal Conduct and Behaviour	
10.	Ability to Cope Up with the Stressful Situations	

11. Department (s) / Section (s) where the intern was accommodated:

SL. No.	Department (s) / Section (s)	Type of Work	Period	
			From	To
01				
02				
03				
04				
05				

12. Areas where student excels:

13. Areas where student needs to improve:

14. Areas where student gained new skills, insights, values, confidence, etc.:

15. Did student demonstrate continued progress throughout the internship term?:

16. Was student's academic preparation sufficient for this internship?

17 Additional comments or suggestions for the student?

18	Overall Evaluation of the Intern's Performance	Grade Awarded

Name

Name

Signature of Officer In-charge (Industry)

Signature of course Co-ordinator

Note:

- Every student undergoing implant training in the respective branch of Engineering in any Establishment shall be treated as a trainee. The provision of any law with respect to labour will not apply to such a trainee
- It shall not be obligatory on the part of the Employer / Industry to offer any stipend and other welfare amenities available, if any, to the students undergoing implant training. However, if the industry is desirous to do so, it will be a privilege for the students

## **ANNEXURE 2**

### **FORMAT FOR PREPARATION OF REPORT ON IN-PLANT TRAINING**

#### **ORGANISATION OF THE REPORT:**

The sequence in which the CONTENTS of the training report should be arranged and bound is as follows:

1. Cover Page
2. Inner Title Page (Same as cover page)
3. Certificate by Company/Industry/Institute
4. Acknowledgement
5. About Company/industry/institute
6. Table of Contents
7. List of Tables
8. List of Figures
9. Abbreviations and Nomenclature(If any)
10. Chapters
11. References
12. Data Sheet(If any)
13. Appendices ( If any)

Students should submit Two Copies of the In-plant training report (one for department and one for the library) duly signed by the HOD. Students should also submit a CD containing the soft copy of the report in pdf format to the department library.

The tables and figures shall be introduced in the appropriate places.

#### **TYPING INSTRUCTIONS:**

1. The In-plant training report shall be typed in English- India, Font -Times Roman, Size- 12 point and printed on A4 size paper.
2. The training report shall be typed with 1.5 line spacing with a margin 3.5 cm on the left, 2.5 cm on the top, and 1.25 cm on the right and at bottom. Every page in the report must be numbered. The page numbering, starting from acknowledgements and till the beginning of the introductory chapter, should be printed in small Roman numbers, i.e, i, ii, iii, iv..... The page number of the first page of each chapter should



not be printed (but must be accounted for). All page numbers from the second page of each chapter should be printed using Arabic numerals, i.e. 2,3,4,5... All printed page numbers should be located at the bottom centre of the page.

3. In the training report, the title page [Refer sample sheet (inner title pager)] should be given first and printed in black letters.
4. **The table of contents** should list all headings and sub-headings. The title page and certificates will not find a place among the items listed in the Table of Contents. One and a half line spacing should be adopted for typing the matter under this head.
5. **The list of tables** should use exactly the same captions as they appear above the tables in the text. One and a half spacing should be adopted for typing the matter under this head.
6. **The list of figures** should use exactly the same captions as they appear below the figures in the text. One and a half spacing should be adopted for typing the matter under this head.
7. The list of symbols, abbreviation & nomenclature should be typed with one and a half line spacing. Standard symbols, abbreviation etc should be used.
8. Training report should consist of following chapters.
  - Chapter 1- Introduction
  - Chapter 2- Details of area of study in which the student has undergone in-plant training.

(This chapter will be divided into several sections. Each section should be numbered separately. A section may be further divided into several divisions and sub-divisions depending on the content).
  - Chapter 3- PO/Skills attained in the training.
  - Chapter 4- Conclusion by the student.
9. The In-plant training report may consist of about 40 to 50 pages. The training report shall be hard bound with cover page in Maroon color. The name of the students, degree, duration of training period, institute name shall be printed in **Bold Black** letters on the cover page