



## ISTE STAFF CHAPTER (TN 205) ACADEMIC YEAR 2019-20(ODD SEMESTER)

### Staff Seminar Report

The ISTE Staff Chapter, Kings College of Engineering, organized a staff seminar delivered by Mr.K.Arun, Assistant Professor/ Department of Civil Engineering on **Prefabricated Structure** on 04.07.2019 between 3.30pm and 4.00pm for the faculty members of the institution.



**Resource Person's Talk Audience listening the seminar**

### **About the Seminar Topic**

Prefabrication is the Process of assembling components of a structure in a factory or other Manufacturing site/plant and transporting complete assemblies to the construction site where the structure is to / be located. The term 'prefabricated' means, buildings built in components (e.g. panels), modules (modular homes), transportable sections (manufactured homes). The structural components are standardized and produced in plants in a location away from the building site. Then the components are transported to the site for assembly. The components are manufactured by industrial methods based on mass production in order to build a large number of buildings in a short time at low cost. The concept of precast structures also known as prefabricated/ modular structures.

The Prefabrication is classified as follow from the view of degree of Precast construction.

- ⊙ Small prefabrication
- ⊙ Medium Prefabrication
- ⊙ Large Prefabrication

- ⊙ Cast in Site Prefabrication
- ⊙ Off-Site (or) factory Prefabrication
- ⊙ Open system of prefabrication
- ⊙ Closed system of prefabrication
- ⊙ Partial prefabrication
- ⊙ Total prefabrication

#### **Advantages of Prefabrication**

- ⊙ Quick Construction
- ⊙ Less labor involved
- ⊙ Reduce wastage of materials
- ⊙ Possibility of conversion, disassembling and moving to another site.
- ⊙ Possibility of erection in areas where a traditional construction practice is not possible or difficult
- ⊙ Easier management of construction sites
- ⊙ Better overall construction quality

#### **Limitations of Prefabrication**

- ⊙ Size of the units.
- ⊙ Location of window openings has a limited variety.
- ⊙ Joint details have complexity.
- ⊙ Require high quality control.
- ⊙ Difficult to handling & transporting.
- ⊙ Installation and Transportation cost in high.



**ISTE STAFF CHAPTER (TN 205)  
ACADEMIC YEAR 2019-20(ODD SEMESTER)**

**Staff Activity Report**

The ISTE Staff Chapter, Kings College of Engineering, organized a competition on **Crossword - Number Cruncher Puzzle** on 04.07.2019 between 4.00pm and 4.30pm for the faculty members of the institution.

**Prize Winners**

<b>POSITION</b>	<b>STAFF NAME WITH DESIGNATION</b>
1	Mr.K.ARUN, AP/CIVIL Mr.R.SUNDHARAM, AP/CIVIL
2	Mr.P.RAJAPIRIAN Mr.S.RAMARAJAN, AP/ECE