

Department of Civil Engineering

In Association With



IGBC WEEK CELEBRATION

(Expert talks, Technical and Non-Technical Events)

Organized by:

IGBC Student Chapter
Civil Engineering Department

Dates: 24, & 25th September, 2021

Faculty Coordinator:

Prof. Krunali Patel

Student Coordinator:

IGBC CORE TEAM

Venue:

G H PATEL COLLEGE OF ENGINEERING AND TECHNOLOGY,
AUDITORIUM HALL, BAKROL ROAD,

VALLABH VIDYANAGAR - 388120

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IGBC WEEK CELEBRATION, THEMED “BUILDING RESILIENCE TO CLIMATE, PEOPLE & ECONOMIES”

1.1 Introduction of the Seminar:

“Building Resilience to Climate, People and Economies” was the theme of an event that celebrated on the 7th year celebration of the Indian Green Building Council. This event was organized by **G H Patel College of Engineering & Technology (A Constituent College of CVM University)** under the **Civil Engineering Department** by the **IGBC Core team**, lead by faculty coordinator **Prof. Krunali Patel**. It was held in the **GCET, Auditorium Hall**.

1.2 Introduction of IGBC & its involvement in GCET.

The Indian Green Building Council (IGBC), part of the Confederation of Indian Industry (CII) was formed in the year 2001. The vision of the council is, "To enable a sustainable built environment for all and facilitate India to be one of the global leaders in the sustainable built environment by 2025".

The council offers a wide array of services which include developing new green building rating programmes, certification services and green building training programmes. The council also organises Green Building Congress, its annual flagship event on green buildings.

The Indian Green Building Council (IGBC), managed by Confederation of Indian Industry (CII) has launched student’s chapter in G H Patel College of Engineering on 15th of October 2015. IGBC week is celebrated every year in the 3rd week of September. In this context, the department is going to organize activities such as Expert Talks on Green Building & Entrepreneurship, Technical Quiz as well as Tech and Non-Tech Events with the Theme: **“Building Resilience”, IGBC 2021”,** during the IGBC Week Celebration.

2. EVENTS HELD DURING THE IGBC WEEK CELEBRATION

2.1 Expert Talks:

There was a total of two expert lectures that were held in the IGBC week celebration themed “Building Resilience”. These lectures were held on the 24th of September 2021, by honourable **Neetu Jain**, Vice Chairperson at Vadodara IGBC Chapter and the admirable **Shreya Dalwadi**, Green architect. They enlighten the students and the faculty of various technologies and innovations within the civil engineering field that will promote longevity within buildings and green solutions for the upcoming problems.

Expert Lecture 1: “IGBC & the Concept of Green Building.”

Held at the G H Patel College of Engineering and Technology, Auditorium Hall the expert lecture on “IGBC and the concept of Green Building” was taught by **Ms Neetu Jain**, the Vice-Chairperson at the IGBC CHAPTER, Vadodara.

She proceeded to explain about IGBC along with the countless activities that the council had held to make its vision come to fruition, and the steps that it takes to promote this vision as well as instil them into young professional and upcoming engineers within the field. This was majorly achieved through the IGBC Student Chapter introduced in colleges as well as zonal chapters like Vadodara, Anand, Surat etc. in the state of Gujarat.

The talk ended on a high note focusing on the definition and elaboration of what a green building is and how it is rated. She also paid attention on the concept of Sustainability as well as the future trends of Green Building. Contrary to people’s beliefs or even the illusion of the name a green building is not a building that is surrounded by plants or painted green, but instead it is

defined as the building which is “green” in its design. It promotes efficiency of systems and limits the negative impacts that the construction and operation of a building can cause to the environment.

Expert Lecture 2: Low Carbon Footprint Building

Commencing at 11:30AM IST, **Ms Shreya Dalwadi**, an architect and green building rating consultant gave a talk on “**Low Carbon footprint Building**”. She started by giving an introduction on what a carbon footprint is and its significance in our society. A carbon footprint is defined as the total greenhouse gas emissions caused by either a person an organization, and event or even an activity (driving per se). Carbon footprint is expressed in carbon dioxide equivalents.

Due to the increase of carbon emissions due to industrial activities and urban development, the carbon footprint of many individuals, companies and even countries have seen an increase. It is important to note that is this emission of greenhouse gases that is the greatest causing factor of global warming. As the year have progressed, we have witnessed the cumulative and induced impacts of global warming to be, meteorological imbalances, flooding and rise of sea levels due to the melting of glaciers, as well as the increased use of refrigeration and air-cooling systems to manage the increasing temperatures.

With this information MS. Shreya was able to elaborate the gravity and weight of a carbon footprint as well as the adverse effects of having an elevated number. She encouraged the decrease of carbon footprints not only at an industrial level but also at personal more approachable level, through the design of a low carbon footprint building.

She gave her input of the mitigation measure or changes that can be implemented in a conventional building in order to lower the amount of carbon emissions as well as those of other greenhouse gases. Methods that decrease the need for irrigation technologies that consume a lot of energy or

produce carbon as an output. Increasing natural lighting, as well as natural resources by the usages of solar energy or harvesting of rainwater will decrease the need for exterior resources and prevent their depletion.

Ms. Shreya encouraged students and upcoming engineers to be more alert when it comes to their design as well as cautious in terms of the resources and facilities available to construct a building.

2.2 Technical Events: Glorious Technus.

Held at the college's Auditorium Hall the **Glorious Technus** was an assembly of technical events that fostered a competitive yet educative environment for the participants. The Glorious Technus, consisted of the following events:

- Wheel of Fortune
- Guess the Advertisement
- Spitfire
- Tic Tech Toe
- Debate

Of these events participants were narrowed down, of which the winners proceeded to debate each to other of topics related building resilience. This was a light-hearted way to test the skill of the students from fourth year to our youngest freshers and to ensure that they were able to gain knowledge throughout the duration of the online semesters.

The proud winners of the Glorious Technus were:

- Vivek Jain
- Jainam
- Het Patel
- Anushka

2.3 Non- Technical Events:

Tesoro Cazar (Treasure hunt):

This event was an active and jovial one as it consisted of having students solve puzzles that contained the clues with their proceeding destination. Students were placed in groups of 5-6 and together had to make it to the finish line which was their destination.

The winners of this event were:

- Vivek Jain
- Harshil Parsana
- Dharm Patel
- Raj Patel
- Harmish Gabani
- Pal Pananara

Planetizen (City Panning) :

This was the second event of the second day, 25th September 2021. In this event the students we placed in groups of four and were given supplies with which they had to design a city.

Rules and regulations were given on requirements for a sustainable and feasible design of a city, the students were given the opportunities to put into practice what they had learned in the previous lectures.

The winners of the events were:

First Place Winners:

Smit Makhecha, Bhavik Prajapati, Yash Kanani.

Second Place Winners:

Hemang Barai, Karan Kariya, Isha Shah.

3. Attendance and conclusion:

There was a total of **303 entries** for the event and the student turn around was also good. Students of all departments participated in the events held by the IGBC STUDENT CHAPTER, GCET and they were able to learn about diverse technologies and innovations of the civil engineering field and learn ways to implement it into their own field.

The event was a great success and received much appreciation for the events held as well as the decoration of the college done by the students. The rangoli design of the event was even featured in the WorldGBC Bulletin, and students were highly praised by the principal for the tremendous job done.

4. Pictures of the Celebration:





