





### REPORT OF

# "GREEN BUILDING WEEK CELEBRATION 2021"

BY

# INDIAN GREEN BUILDING COUNCIL (IGBC) STUDENTS' CHAPTER,

# A.D. PATEL INSTITUTE OF TECHNOLOGY 20<sup>th</sup>-24<sup>th</sup> SEPTEMBER 2021

Faculty Coordinators

Dr Rajiv B. Bhatt

Prof Drashti Bhatt

Prof Bhavin Patel

**Student Coordinator Khyati Patel** 



Chief Patron
Er. Bhikhubhai Patel
(Chairman, CVM)



Patron
Dr. S. G. Patel
(Hon. Secretary, CVM)



Patron
Shri Manish Patel
(Vice President, CVM)



Patron
Shri M .D. Patel
(Hon. Jt. Secretary, CVM)



Program Chair Dr. V. N. Singh (Principal, ADIT)

### **ORGANIZING COMMITTEE**

Sr. No.	Name of Student
1.	Patel Khyati
2.	Patel Urvi
3.	Jadav Mohishraj
4.	Shah Parth
5.	Parmar Mehul
6.	Patel Rohan
7.	Shah Neh
8.	Dipak Rathod
9.	Vasava Harshal
10.	Pandey Sonu
11.	Abid Vahora

#### **FLYER OF PROGRAMME**



Indian Green Building Council (IGBC) Students' Chapter of A.D. Patel Institute of Technology of New Vallabh Vidyanagar, Gujarat did the "**GREEN BUILDING WEEK CELEBRATION 2021**" during "WORLD GREEN BUILDING WEEK" from 20<sup>th</sup>-24<sup>th</sup> September 2021. Whole program was supported by IGBC Ahmedabad & IGBC Vadodara Chapter as well as IGBC, Hyderabad.

Detailed report of whole celebration is as given below:

#### **SCHEDULE**

#### 'GREEN BUILDING WEEK CELEBRATION' (ONLINE MODE)

#### <u>By</u>

#### IGBC STUDENTS' CHAPTER, ADIT

#### (under WORLD GREEN BUILDING WEEK 20-24 SEPTEMBER 2021)

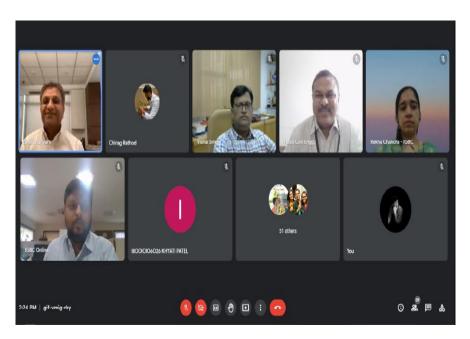
**Theme: Building Resilience** 

Sr No	Date & Day	Time	Details of activity	Details of Invitee / speaker	Topic / Remarks
1	20-09-2021, Monday	2 PM- 2:30 PM	Inaugural function	Chief guest: Sh Jayesh Hariyani, Co-chair, IGBC Ahmedabad Chapter and CMD, INI Design Studio, Ahmedabad	Beginning of celebration, speech of chief guest to cover importance of green buildings in today's era
2	20-09-2021, Monday	2:40 PM TO 3:40 PM	Webinar 1	Sri Rekha Mavulati, Counsellor, CII Hyderabad	Green Building and Green Building Rating Systems
3	21-09-2021, Tuesday	3 to 4 pm	Webinar 2	Shri Habil Attarwala, Furaat Earth Pvt Ltd, Ahmedabad	Importance of science and design for effective and efficient Rainwater Harvesting
4	22-09-2021, Wednesday	11 to 12 am	Webinar 3	Sumesh Nair, Asist General Manager, Godrej & Boyce Mfg Co Ltd, Mumbai	Energy efficiency strategies for Green Buildings
5	23-09-2021, Thursday	3 to 4 pm	Webinar 4	Varun Yadav, Integrated Consulting Engg Services, Ahmedabad	Case studies of Green Buildings
6	24-09-2021, Friday	10:00 am	Quiz Competition	Online	An online quiz competition covering topics of all webinars.
7	24-9-21, friday	11 am	Tree Plantation	-	Students and faculty members will do the tree plantation at garden.
8	24-09-2021, Friday	11:30 am – 1:00 pm	Poster Competition	Posters will be prepared by the group of two students and to be presented in front of juries. Best three posters will be awarded with the certificates.	Theme – Building Resilience for climate, people and economies [1] Sustainable building design [2] Innovative Building Construction techniques / Materials [3] Waste recycling from construction industry
9	24-09-2021, Friday	3 pm to 4 pm	Valedictory function	Chief guest: Ms Neetu Jain, Co- Chairperson, IGBC Vadodara Chapter	Certificate distribution to winners of Poster Competition and Quiz Competition

## DAY 1: 20/09/2021: INAUGURAL FUNCTION, 1:30 PM ON GOOGLE MEET PLATFORM

On 1<sup>st</sup> day, 20<sup>th</sup> September 2021 celebration started with Inaugural function. Chief Guest of the function was Shri Jayesh Hariyani, Vice Chairman, IGBC Ahmedabad chapter & CMD at INI Design Studio, Ahmedabad. The Inaugural function started with Khyati who described the activities undertaken by the chapter during the last year. She also introduced the new committee members. Shri Jayesh Hariyani emphasized on importance of Green Buildings for sustainable development. He discussed about the need to move from green building to net zero building. He conveyed that IGBC is playing a leading role in Green Building movement in our country. As per statistics, he told the number of Green Building Projects have been increasing in India, but now we need to move towards net zero buildings. He shared that there are 26 chapters of IGBC currently in India. Sir invited the young students to join Green Building movement in future. Dr Vishal Singh, Principal, ADIT gave the presidential remarks and gave best wishes for the success of the programme.

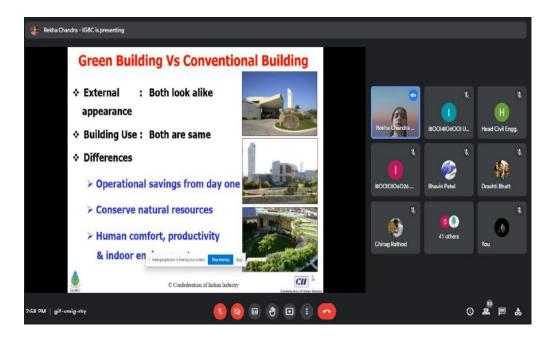
Vote of Thanks was delivered by Chirag Rathod. Inaugural function was handled by Khyati Patel from 4<sup>th</sup> Civil Engineering Department. There were 99 participants in the function.



**Inaugural function** 

#### DAY 1: 20/09/2021: WEBINAR 1 REKHA MAVULATI, COUNSELLOR CII HYDERABAD, 02:45 PM ON GOOGLE MEET

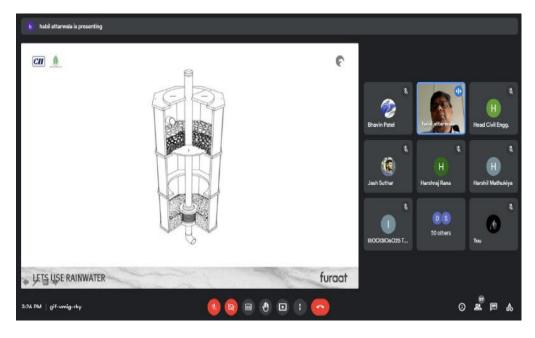
Ms. Rekha Mavulati delivered a webinar on "Green Buildings, Rating systems & Green Education". She explained the key features of green building and role of Indian Green Building Council (IGBC). She described the vision of IGBC to the participants. She discussed that IGBC has been the founding member of the World GBC since 2004. She also informed everyone that the World GBC is a global network of GBC's from over 70 countries. She discussed about the India GBC HQ now being a net zero energy platinum building and discussed the growth of Green Projects in India. She discussed the key areas of the green building rating system. She further compared Green Buildings & Conventional Building. She also explained different benefits of Green Buildings. She also discussed the IGBC certification process for green buildings. Q & A was also interesting, and many students asked questions to ma'am. Webinar was anchored by Urvi Patel from 4<sup>th</sup> year Civil Engineering Department.



Webinar 1 by Rekha Mavulati, CII Hyderabad

#### DAY 2: 21/09/2021: WEBINAR 2 HABIL ATTARWALA, FURAAT EARTH PVT LTD, AHMEDABAD 02:45 PM ON GOOGLE MEET

On 2<sup>nd</sup> day webinar 2 was delivered by Shri Habil Attarwala on "**Importance of Science & Design for Effective & Efficient Rainwater Harvesting**". He began his speech with importance of water. He told that 80% of the water requirement is dependent on underground water. The he started discussing about rainwater harvesting, the traditional way of rainwater harvesting and how a new and modern solution was needed. He then explained the design intervention that led to the new way of rainwater harvesting. He also showed how the new modular rainwater system can be assembled by very less manpower. Then he showed us some of his projects and how the stepwell system developed over time. He also showed us how easy it is to do maintenance of the stepwell. The webinar was anchored by Jash Suthar from 3<sup>rd</sup> year Civil Engineering.

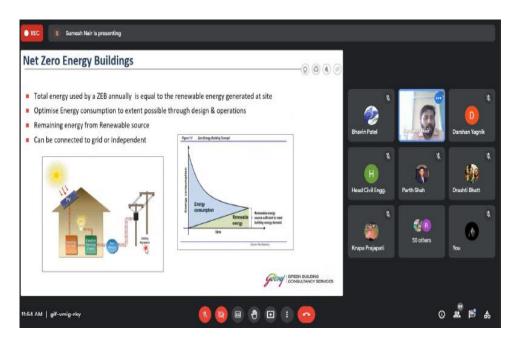


Webinar 2 by Shri Habil Attarwala

# DAY 3: 22/09/2021: WEBINAR 3 SHRI SUMESH NAIR, ASST. GENERAL MANAGER, GODREJ & BOYCE MFG CO LTD, 11:00 AM ON GOOGLE MEET

On 3<sup>rd</sup> day Webinar 3 was delivered by Shri Sumesh Nair on "Energy Efficiency strategies for Green Buildings". He started with the discussion about global warming and how it is affecting us. He then explained that buildings account for a large part of energy used worldwide and greenhouse gas emissions. He then discussed about ECBC and how implementing it would help us in saving energy. He then discussed the passive and active design strategies to save energy consumption in the buildings. He also discussed about net zero energy buildings. He explained energy simulation for building envelopes and further explained its importance.

Anchoring of 3<sup>rd</sup> webinar was done by Parth Shah from 4<sup>th</sup> year Civil Engineering Department.

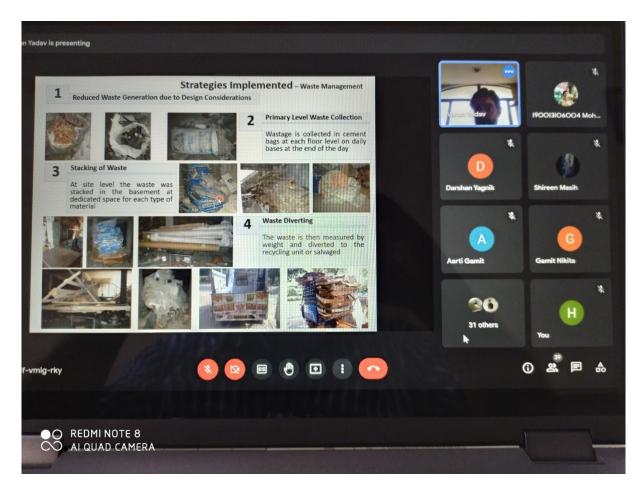


Webinar 3 by Shri Sumesh Nair

#### DAY 4: 23/09/2021: WEBINAR 4

# SHRI VARUN YADAV, INTEGRATED CONSULTING ENGG SERVICES, AHMEDABAD, 03:00 PM ON GOOGLE MEET

On 4<sup>th</sup> day webinar 4 was delivered by Shri Varun Yadav on "Case studies of green buildings". He started by discussing the different types of houses, public buildings, and interiors in India by comparing the houses, public buildings in Rajasthan, Haryana and Gujarat. He then started discussing the passive design techniques and optimization. He continued by taking up a case study of a building and explaining how the design of the building can be modified to reduce heat. He then discussed the active design techniques. Then he showed the comparison of the base case and design case. He then compared the project cost for both the cases. Anchoring was done by Shireen Masih from 2<sup>nd</sup> year Civil Engineering Department.



Webinar 4 by Shri Varun Yadav

#### DAY 5: 24/09/2021: QUIZ COMPETITION: 10:00 AM

An online Quiz Competition was held on the last day of the celebration. It had total 20 questions from the content of webinars delivered during the first 4 days. Quiz is attached at the end of this report. Total 47 students participated in this online quiz. Results are as given below.

#### WINNERS OF QUIZ COMPETITION

RANK	NAME	ENROLLMENT
		NUMBER
FIRST	JAIN PARTH	SMAID, NEW VVN
SECOND	KUNVAR ASHISHKUMAR	190013106016
SECOND	CHAUDHARI RACHANA	180010106007
SECOND	PATEL KHYATI	180010106026
SECOND	PATEL URVI	180014106001
THIRD	PATEL PRANAY	SMAID, NEW VVN
THIRD	PATEL HARMEET	SY, D TO D

Winners were given the certificates by Ms Neetu Jain, Co-chairperson, IGBC Vadodara Chapter during the valedictory function.



#### **Certificate to winners**

#### **QUIZ COMPETITION – Questions**

## A.D.PATEL INSTITUTE OF TECHNOLOGY, CIVIL ENGINEERING DEPARTMENT CORRECT ANSWERS OF GREEN BUILDING WEEK CELEBRATION QUIZ

DATE: 24-09-2021

QUESTIONS CORRECT ANSWER

Q-1 Full form of IGBC	INDIAN GREEN BUILDING COUNCIL
Q-2 A green building is a one	All of above
Q-3 Approximate saving in energy and water in green building is as compared to Green buildings	30%
Q-4 First platinum rated Green building located in India is in state	Hyderabad
Q-5 Green building design will improve productivity of Occupants	Strongly agree
Q-6 Full form of HFM is in rain water harvesting	Horizontal Filtration Module
Q-7 A rain water harvesting system is incomplete without	Sand filtration chamber
Q-8 What percent of the water requirement is dependent on underground water?	80%
Q-9 Which Survey is used to find underground water for borewell?	Geo-Electric Survey
Q-10 Electrical Resistivity Survey is used to detect and map subsurface archaeological features and patterning.	TRUE
Q-11 Which chiller is most energy efficient?	Water Cooled Chillers
Q-12 How much Co2 is released in atmosphere every day?	70 million Tons
Q-13 Buildings account for almost of energy used world wide and of greenhouse gas emissions.	40% & 50%
Q-14 of the building stock in India that will exist in 2040, is yet to be built	60%
Q-15 Which code states the energy standards and energy conservation building code?	ASHRAE 90.1
Q-16 Lux level required for reading is?	300
Q-17 VOC stands for?	Volatile organic compounds
Q-18 How much energy is saved by using photo Sensor/Occupancy Sensor	10%
Q-19 Sustainable approach will increase the project cost by	3-4%
Q-20 Which software can be used for Daylight & Energy simulation	IES VE

Faculty coordinator : Tausif F Kauswala Student Coordinator : Sonu Pandey

# DAY 5: TREE PLANTATION: 11 AM – GARDEN AT NEW VVN



**Final Year students** 



Girl's Group



**Faculty members** 



**Group of students and faculty members at tree plantation** 

## DAY 5: 24/09/2021: POSTER MAKING COMPETITION AT 11:30 AM

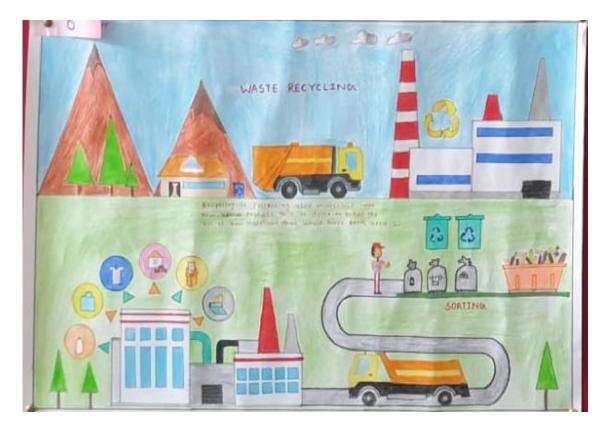
Poster making competition was held on the fourth day of the celebration. Participants were given following themes for the poster making:

- 1) Sustainable Building Design
- 2) Innovation Bldg. Construction Techniques / Materials
- 3) Waste Recycling from Construction Industry

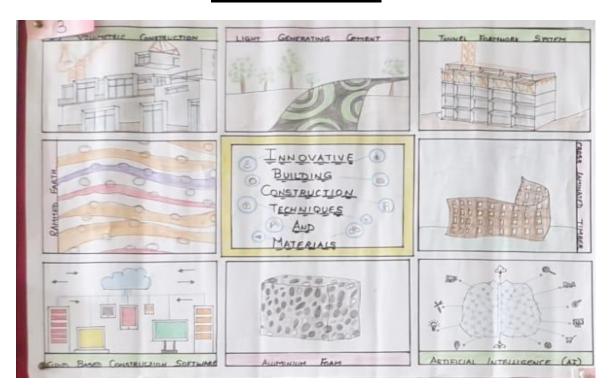
Total 5 posters were presented by the students. Posters were judged by Dr Bhasker Bhatt from SMAID, New VVN & Prof. Drashti Bhatt from ADIT. First and second Rank posters were given winner certificates in the valedictory function. It was coordinated by Khyati Patel and Yug Ratanpara from 4th year Civil Engineering.

#### WINNERS OF POSTER COMPETITION

RANK	NAME	ENROLLMENT
		NUMBER
FIRST	PATEL KASTY	200010106519
SECOND	MASIH SHIREEN	21CE003



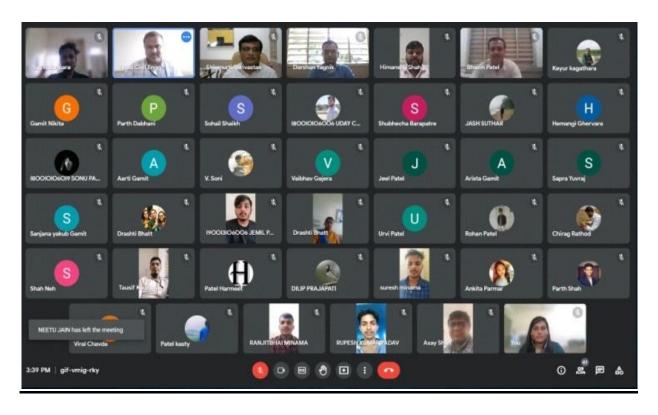
Poster - 1<sup>st</sup> Rank



Poster - 2<sup>nd</sup> Rank

#### DAY 5: 24/09/2021: VALEDICTORY FUNCTION: 03:00 PM

Valedictory function was held on 24<sup>th</sup> September 2021. It was attended by Ms Neetu Jain,Co-Chairperson, IGBC Vadodara Chapter as the Chief Guest. Ms Neetu Jain did the honors of certificate distribution in virtual mode to the winners of poster competition and quiz competition and conveyed appreciation for the celebration to the IGBC Students' chapter, faculty members and to the institute. Ma'am told that new planning of activities for the whole year can be done and all support of IGBC will be provided in the future. President of the function Dr. Srivastava sir conveyed best wishes to the Chapter and congratulated coordinators for successful execution of the programme. Vote of thanks was delivered by student coordinator Khyati Patel. Function was anchored by Yug Ratanpara and Khyati Patel from 4th year Civil Engineering.



Valedictory function

### <u>List of participants of "Green Building Week Celebration"</u>

Sr No	Name of participant	Enrollment Number	Department	Year
1	Vyomesh Gamit	190013106003	CE	Final
2	RANJITBHAI	200010106517	CE	Third
3	PARMAR MEHUL	190013106020	CE	Fourth
4	SHASHANK GARG	180010106011	CE	Fourth
5	Akash A Prajapati	190013106021	CE	Final
6	Yash sutariya	190013106013	CE	Final
7	Parth C. Dabhani	180010106009	CE	Fourth
8	SONI VRAJ	190013106012	CE	Fourth
9	Uday Chandarana	180010106006	CE	Final
10	Niamatullah Mazidi	170010106054	CE	Final
11	Chaudhari Rachana	180010106007	CE	Fourth
12	Shah Parth	190013106010	CE	Fourth
13	Prit ravat	180010106031	CE	Final
14	Mahin Bin Mamun	170010106051	CE	Final
15	Jash Suthar	200010106507	CE	Third
16	RATHOD CHIRAG	200010106501	CE	Third
17	Krupa Prajapati	180014106002	CE	Fourth
18	Shubhecha	12002030601006	CE	Second
19	LADHER MAHESHKUMAR	170010106018	CE	Fourth
20	ANKIT PATEL	202	Architecture	Final
21	KUNVAR ASHISHKUMAR	190013106016	CE	Fourth
22	Jeet Patil	180010106029	CE	Fourth
23	Aesha Dholakia	2018001052	Architecture	Final
24	Sagar Muchhadiya	190013106019	CE	Final
25	Divyesh Gandhi	190013106014	CE	Fourth
26	Yug Ratanpara	190013106009	CE	Fourth
27	Dilen P Lakhani	190013106005	CE	Fourth
28	Utsav.A.Lakhani	190013106017	CE	Fourth
29	Patel kasty	200010106519	CE	Third
30	SAXENA CHIRAG MAHESHKUMAR	200610106019	CE	Second

31	Patel shailesh	200610106012	CE.	771 ' 1
32	padmabhai	200610106013	CE	Third
	Fakir Fateali Ishakali	200610106508	CE	Third
33	BADALKUMAR SAUMILKUMAR			
	PATEL	12002030601001	CE	Second
34	PATEL JIL	12002030601003	CE	Second
35	Sanidhya b swaraj	12002030601005	CE	Second
36	Keyur kagathara	180010106014	CE	Fourth
37	Parmar Dipika Rajubhai	190013106007	CE	Fourth
38	Gamit Nikitaben Rajeshbhai	2000010106527	CE	Third
39	Shah Neh Hiteshkumar	200010106514	CE	Third
40	GAMIT JIGNESABEN	200010106529	СЕ	Third
41	PRAJAPATI DILIPBHAI N	190013106022	СЕ	Final
42	Chaudhari Divya Rohitbhai	200010106520	CE	Third
43	Parth Jain	140	Architecture	Third
44	Rinkuben Laljibhai Jua	190610106030	CE	Third
45	Meet	200010106531	other	Third
46	Patel Rohan Pankaj	200010106523	CE	Third
47	Chandni Nair	2018001055	Architecture	Fourth
48	Jaykumar Yogeshbhai Gajjar	190013119003	ME	Final
49	Sapra Yuvraj	200010106510	CE	Third
50	Ujas Dobariya	190013106002	CE	Final
51	Meet Sameja	180010106032	CE	Fourth
52	JASMINABEN BIPINCHANDRA RATHVA	200010106506	CE	Third
53	MINAMA SURESHBHAI SHANABHAI	200010106518	СЕ	Third
54	Gajera Vaibhav	12002030601008	CE	Second
55	VASAVA HARSAHALKUMAR	200010106512	CE	Third
56	Ghervara hemangi ketankumar	200010106516	СЕ	Third

57	Palak Akshaybhai	1,0010102070	OF.	г. 1
<b>70</b>	vankar	160010106058	CE	Final
58	Mansuri Nihal Dinmohammed	180010106018	CE	Fourth
59	Vanpariya Nikhil S.	150010106063	CE	Final
60	Sonu Pandey	180010106019	CE	Fourth
61	PRADIPKUMAR MISTRY	200010106528	CE	Third
62	Sohail Shaikh	303	CE	Second
63	Rana Harshvardhansinh b	190013106008	CE	Final
64	Vaghela jay	20010106503	CE	Third
65	Vohra Mohammad Faizan Rafik bhai	306	CE	Second
66	Rohit manishaben Dineshbhai	307	ME	Third
67	JENIL C. THORAT	170010106049	CE	Fourth
68	Khyati Patel	180010106026	CE	Fourth
69	Gadher Aarti Manshukhbhai	309	CE	Second
70	Sonam Upadhyay	12002030601007	CE	Second
71	Aishwary Gohil	180610106020	CE	Fourth
72	Harshil Jigneshbhai Mathukiya	12002030601002	CE	Second
73	Rupesh Kumar Yadav	18012071042	CE	Fourth
74	Yogeshbhai Gayakwad	12002030601009	CE	Second
75	Pabari Jemil Nitinbhai	190013106006	other	Fourth
76	Patel Urvi Hemant	180014106001	CE	Fourth
77	Ashish Kumar mishra	170010106003	CE	Fourth
78	Dhyey patel	180010106025	CE	Final
79	Devji M Makwana	304	CE	Second
80	Ayaz Malek	190013106018	CE	Final
81	Patel Harmeet	312	CE	Second
82	Tushar Singh	180013106025	CE	Final
83	Ashwin k Rathod	200010106541	CE	Third
84	Gamit sanjana y.	200010106534	CE	Third
85	Rathod dipak Dhirubhai	200010106513	CE	Third

86	Chudasama			
	bhaveshkumar	200010106511	CE	Third
87	Gamit Aarti b.	200010106533	CE	Third
88	GAMIT ARISTABEN	200010106532	CE	Third
89	Rohit dipesh	200010106536	CE	Third
90	PARMAR			
	BHARGAV	200010106505	CE	Third
91	Parmar Ankitaben	200010106524	CE	Third
92	Heet prajapati	200010106544	CE	Third
93	Dwija Goswami	115	Architecture	Third
94	Parmar Devansh	200010106530	CE	Third
95	Srushti Trivedi	155	Architecture	Third
96	Patel meet	180010106027	CE	Final
97	Kishan Prajapati	130	Architecture	Final
98	Bhumika	106	Architecture	Third
99	Riddhi Chauhan	2018001050	other	Fourth

#### **PRESSNOTE**

Divya Samachar; 28.09.21; Pg.5



સીવીએમ યુનિવર્સિટીની ન્યુ વિદ્યાનગર સ્થિત એડીઆઈટી કોલેજ ખાતે ઇન્ડિયન ત્રીન બિલ્ડિંગ કાઉન્સિલ IGBC સ્ટુડન્ટ્સ ચેપ્ટર દ્વારા ૨૦ થી ૨૪ સપ્ટે.ના સમયગાળામાં ત્રીન બિલ્ડિંગ વીકની તાજેતરમાં ઓનલાઇન ઉજવણી કરવામાં આવી હતી. પ્રોત્રામ કો-ઓર્ડીનેટર ડો. રાજીવ ભટ્ટના જણાવ્યા મુજબ, ઉપરોક્ત સમયગાળામાં કુલ ચાર ટેકનિકલ, વેબીનાર, અલગ અલગ થીમ પર પોસ્ટર કોમ્પિટિશન, કવીઝ કોમ્પિટિશન તથા વૃક્ષારોપણ જેવા કાર્યક્રમ નું આયોજન કરવામાં આવેલ.

Sardar Gurjari; 28.09.21; Pg.2

### એડીઆઈટી કોલેજમાં ગ્રીન બિલ્ડીંગ વીકની ઉજવણી



આણંદ, તા. ર

સીવીએમ યુનિ.ની ન્યુ વિદ્યાનગર સ્થિત એડીઆઈટી કોલેજ ખાતે ઈન્ડિયન ગ્રીન બિલ્ડીંગ કાઉન્સિલ (આઈજીબીસી) સ્ટુડન્ટ્સ ચેપ્ટર દ્વારા ગ્રીન બિલ્ડીંગ વીકની તાજેતરમાં ઓનલાઈન ઈજવણી કરવામાં આવી હતી. પ્રોગ્રામ કો-ઓર્ડિનેટર ડો. રાજીવ ભક્ષના જણાવ્યા મુજબ ઉપડોક્ત સમયગાળામાં કુલ ચાર ટેકનિકલ, વેબિનાર, અલગ અલગ થીમ પર પોસ્ટર કોમ્પિટીશન તથા વૃક્ષારોપણ જેવા કાર્યક્રમનું આયોજન કરવામાં આવ્યું હતં.

ં આ પ્રોગ્રામનું આયોજન પ્રો. ભાવિન પટેલ, પ્રો. દૃષ્ટિ ભટ્ટ, પ્રો. તોસીફ કોષવાલા તથા વિદ્યાર્થીઓની ટીમ દ્વારા કરવામાં આવેલ. આઈજીબીસી હૈદરાબાદ,

અમદાવાદ તથા વડોદરા ચેપ્ટરના વિવિધ તજજ્ઞો દ્વારા વિદ્યાર્થીઓની ગ્રીન બિલ્ડીંગનું મહત્વ, ગ્રીન બિલ્ડીંગ, રેટિંગ સિસ્ટમ, વરસાદી પાણીનો સંગ્રહ તથા એનર્જીનો બચાવ જેવા વિવિધ કેસ સ્ટડી વિશે ઉપયોગી માહિતી આપવામાં આવી હતી. આ પ્રોગ્રામના સમારંભમાં ઉદ્દઘાટનમાં આઈજીબીસી અમદાવાદ ચેપ્ટરના કો. ચેરમેન જયેશ હરિયાણી તથા સમારોહમાં વડોદરા ચેપ્ટરના કો ચેરપર્સન નીતુ જૈન ઉપસ્થિત રહ્યા હતા. એડીઆઈટી કોલેજના પ્રિન્સિપાલ ડો. વિશાલ સિંઘ તથા સીવીએમ અધ્યક્ષ ભીખુભાઈ પટેલ તથા અન્ય હોદ્દેદારોએ આઈજીબીસી સ્ટ્રડન્ટ ચેપ્ટર, એડીઆઈટીને માહિતીસભર પ્રોગ્રામના આયોજન બદલ હાર્દિક અભિનંદન પાકવ્યા હતા.

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