

NIRMAAN

THE NEWSLETTER: DEPARTMENT OF CIVIL
ENGINEERING

July 2020 – December 2020, ISSUE NO. 5



**SCIENTISTS INVESTIGATE THAT ALREADY IS; CIVIL
ENGINEERS CREATE THAT WHICH HAS NEVER BEEN**



Dr. VISHAL SINGH,
PRINCIPAL, ADIT

FROM THE DESK OF PRINCIPAL

At the outset, I congratulate Civil Engineering Department on the occasion of the release of their fifth issue of the departmental newsletter “NIRMAAN”. India is going through the tremendous growth of Infrastructure facilities in urban and rural areas. Civil Engineering plays a crucial role in such development. The avenues in front of Civil Engineering graduates are vast and job opportunities are booming in the field. Anand City has unique opportunity as 3 major mega infrastructure projects like Bullet Train, Express Way and Dedicated Freight Corridor are on-going nearby. The effort put in by the department to start the IGBC students’ chapter is appreciated at this juncture. Newsletter gives an insight into the activities and achievements of the department. I congratulate all the winner students of different competitions and examinations.



Dr. RAJIV BHATT,
HEAD (CED), ADIT

FROM THE DESK OF HEAD OF DEPARTMENT

We are hereby releasing the fifth issue of the newsletter of the Civil Engineering Department for the period of July to December 2020. During this period department has started Indian Green Building Council (IGBC) Student’s chapter at the Institute and organized two technical programs under this chapter. Two students from the final year batch of 2020 Raj Bhavsar and Amrita Kartha, achieved 10 out of 10 SPI in semester 8 examinations. I congratulate students and faculty members for active participation in co-curricular activities. Department is committed to the overall growth of the students. Department is thankful to Charutar Vidhya Mandal for continuous motivation and support.

MESSAGE FROM EDITORIAL BOARD

It is with great pleasure and enthusiasm that we bring to you the fifth issue of the Newsletter for the Civil Engineering Department. We feel privileged for the faith reposed in us for performing the role of editor of the Department's Newsletter. The essential purpose of "NIRMAAN" is to inform, engage, and inspire a diverse readership including alumni, faculty, staff, students, and parents. We have worked hard for this newsletter and we would like to thank Dr. Rajiv Bhatt (HOD, Civil Engg. Dept.) for the continuous motivation, inputs, and time to time feedback for the final draft of this newsletter. The current newsletter will give you a glimpse of all the activities and achievements of both students and faculties during the past six months.



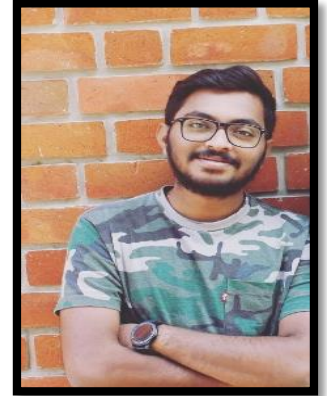
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(180010106019)



Team Member
Keyur Kagathara
(180010106014)

DEPARTMENT STRENGTH



Dr. Rajiv B. Bhatt
Head, Civil Engg Dept.,
Associate Professor



Kumarpal R. Trivedi
Associate Professor



Darshan M. Yagnik
Assistant Professor



Drashti K. Bhatt
Assistant Professor



Bhavin V. Patel
Assistant Professor



Tausif F. Kauswala
Assistant Professor



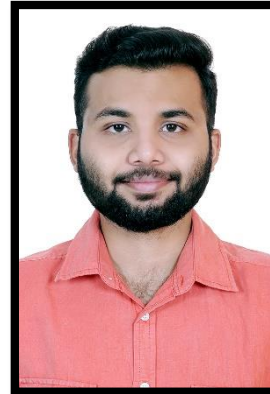
Axay S. Shah
Assistant Professor

KEY ACHIEVEMENTS OF DEPARTMENT

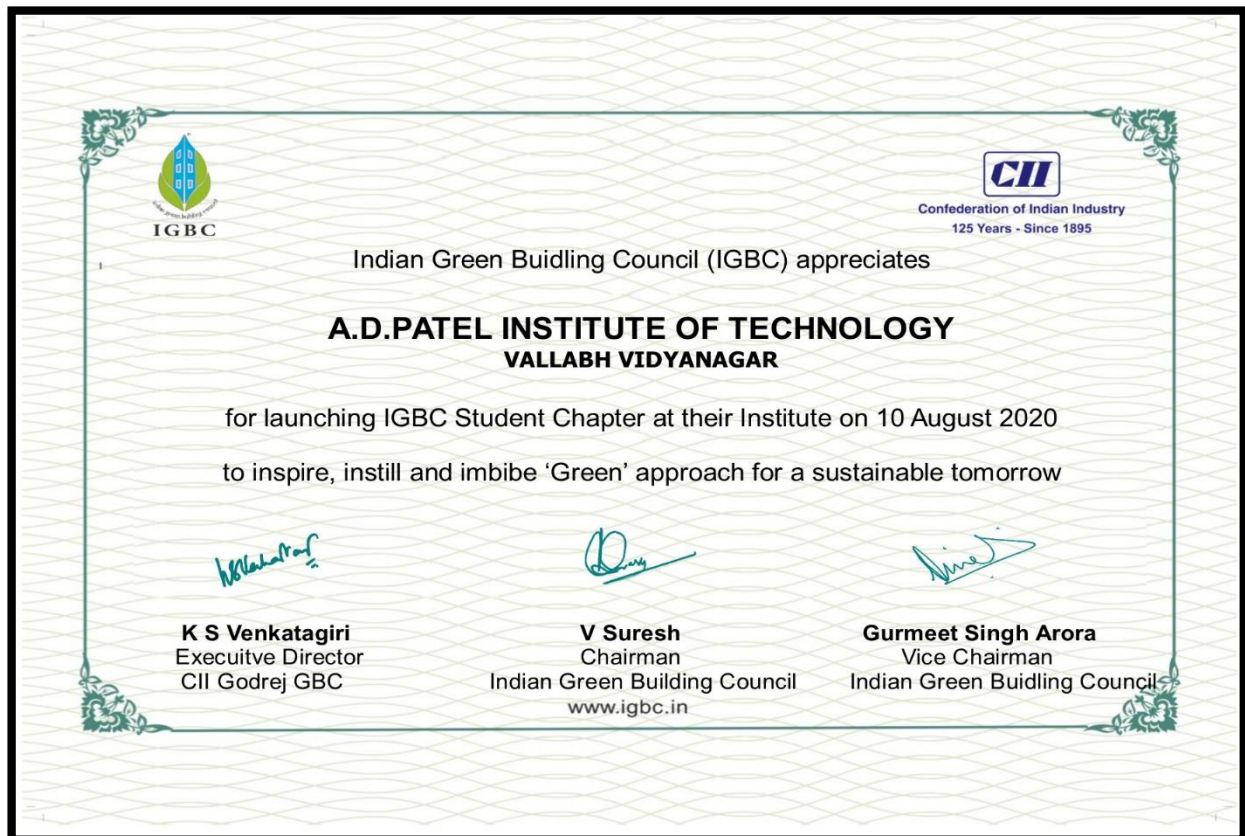
- Department has started “Indian Green Building Council (IGBC) Students’ Chapter” at Institute Level on 10th August 2020.
- Amrita Kartha (160010106015) and Raj Bhavsar (160010106039) from final year class has secured 10.00 SPI in University Summer-2020 examination in 8th Semester.
- Prof. Darshan Yagnik passed NPTEL Course on “Earthquake Resistant Design of Structure” as a topper among 71 candidates at India level during September 2020- November 2020.
- Faculty members have successfully completed the 5 hours online course on “Basics of Disaster Risk Management” organized by Gujarat Institute of Disaster Management.



AMRITA KARTHA
(160010106015)
10 SPI-SEMESTER 8



RAJ BHAVSAR
(160010106039)
10 SPI-SEMESTER 8



CERTIFICATE OF IGBC STUDENTS' CHAPTER

FACULTY SEMINARS

Sr. No.	Name of Faculty	Topic	Date
1.	Dr. Rajiv Bhatt	1)Paver block with waste material 2) Cost delay analysis for construction projects	04/07/2020
2.	Prof. Kumarpal Trivedi	Opportunities in Infrastructure Projects	05/08/2020
3.	Prof. Darshan Yagnik	Performance of Soft Storey & Vertical Geometrical Irregular Structures	08/08/2020
4.	Prof. Drashti Bhatt	Application of Nano-Technology in Civil Engineering	19/09/2020
5.	Prof. Bhavin Patel	Grey Water Characteristics & Reuse in Tower Gardens in Peri- Urban Areas	10/10/2020

DETAILS OF CO-CURRICULAR ACTIVITIES

Sr. No.	Date	Detail of Event/Activity	Group of Students	No. of Students Participated	Detail Of Speaker	Faculty Coordinator
1.	10/08/2020	Expert lecture on “Green Buildings”	All	70	Ms. Rekha Maulati IGBC Counsellor, Hyderabad	Dr. Rajiv Bhatt
2.	14/08/2020	Expert lecture on “STAAD Pro Software”	All	28	Mr. Tej Parmar Khodiyar CAD Centre	Prof. Darshan Yagnik
3.	21/08/2020	Expert lecture on “Green Building Rating System”	All	69	Ms. Manisha Shetty Architect, GB, IGBC, Hyderabad	Dr. Rajiv Bhatt and Prof. Bhavin Patel
4.	22/08/2020	Expert lecture on “STP Technologies for Water Efficiency”	All	83	Mr. Vinod Malviya Shubham Industries, Ahmedabad	Shubham Industries, Ahmedabad
5.	23/08/2020	Expert lecture on “Energy Efficiency Through Cool Roof”	All	83	Ms. Neetu Jain Co-Chairperson, IGBC Vadodara Chapter	Dr. Rajiv Bhatt and Prof. Bhavin Patel
6.	23/08/2020	Expert lecture on “Case Studies- Green Building”	All	70	Mr. Amith M C Associate Counsellor, CII – IGBC, Hyderabad	Dr. Rajiv Bhatt and Prof. Bhavin Patel
7.	24/08/2020	Poster competition “Net Zero Efficient Building” and “Climate Change”	All	14	-	Dr. Rajiv Bhatt and Prof. Bhavin Patel

Sr. No.	Date	Detail of Event/Activity	Group of Students	No. of Students Participated	Detail Of Speaker	Faculty Coordinator
8.	25/08/2020	Quiz competition (IGBC) "Net Zero Efficient Building" and "Climate Change"	All	61	-	Dr. Rajiv Bhatt and Prof. Bhavin Patel
9.	05/10/2020	Webinar on "Housing for All- A Better Urban Future" under World Habitat Day-2020	All	63	Dr. Bhasker Bhatt Associate Professor, APIED, Vallabh Vidyanagar	Prof Axay Shah
10.	24/10/2020	Expert lecture on "Overview of Design of Reinforced Structures: Practical Exposure"	Final Year	24	Lokeshkumar Soni Senior Structural Engineer, Air Product, Vadodara.	Prof. Tausif Kauswala
11.	29/10/2020	Expert lecture on "Digital Image Interpretation"	Third Year	25	Prof. Hasmukh Chauhan, Assistant Professor, BVM, Vallabh Vidyanagar	Prof. Bhavin Patel

KNOWLEDGE ENHANCEMENT PROGRAMMES ATTENDED BY FACULTY MEMBERS

Sr. No.	Name Of Faculty	Type of Program	Details of Program
1.	Dr. Rajiv Bhatt	Workshop / Seminar/ FDP	"Engineer's for Self-Reliant India" on 15 th Sept.2020.
2.	Prof. Kumarpal Trivedi	Workshop / Seminar/ FDP	"Outcome Based Engineering education And Accreditation 2020" from 21 st Sept. to 23 rd Sept. 2020.
3.	Prof. Drashti Bhatt	Workshop / Seminar/ FDP	"Unnat Bharat Abhiyan for Sustainable Development of the Villages" on 17 th August 2020.
			"Sustainable Village Development and Unnat Bharat Abhiyan" from 24 th August to 28 th August 2020.
			"Renewable energy Transition in Gujarat" in the web series of "Climate Change and Covid 19" on 11 th Sept. 2020.
4.	Prof. Bhavin Patel	Workshop / Seminar/ FDP	"Bin Pani Sab Sun- Emerging Threats Against the Water Security" on 15 th Sept. 2020.
			"Advances in Waste Management Systems" from 2 nd Nov. to 6 th Nov. 2020.

Sr. No.	Name Of Faculty	Type of Program	Details of Program
5.	Prof. Tausif Kauswala	Workshop / Seminar/ FDP	“Advanced Post Tensioning System for Building Construction” on 4 th July 2020.
			“BIS Codes for Building Materials” on 20 th July 2020.
			“Understanding the Concrete through Micro- Structure Characterization” on 27 th August 2020.
6.	Prof. Axay Shah	Workshop / Seminar/ FDP	“Recent Advances in Pavement Material Testing and Design” from 17 th August to 22 nd August 2020.
			“Advances in Waste Management Systems” from 2 nd Nov. to 6 th Nov. 2020.

FACULTY ACHIEVEMENTS

Sr. No.	Name Of Faculty	Description
1.	Dr. Rajiv Bhatt	Acted as a session chair and reviewer in 2 nd International Conference on Research and Innovations in Science, Engineering and Technology, ICRISSET-2020 at BVM during Sept, 2020.
2.	Prof. Bhavin Patel	Acted as an reviewer in 2 nd International Conference on Research and Innovations in Science, Engineering and Technology, ICRISSET- 2020 at BVM during Sept, 2020.

RESEARCH PAPER PUBLICATION

Sr. No.	Name Of Faculty	Title of paper	Details Of Publication
1.	Dr. Rajiv Bhatt	Application of Six Sigma for Quality Improvement in Building Construction	Journal of Engineering Technologies and Innovative Research, September 2020
2.	Dr. Rajiv Bhatt	Study on Effect of Urban Heat Island Measured in Anand City ,Gujarat	2 nd International Conference on Research and Innovations in Science, Engineering and Technology, September 2020
3.	Prof. Bhavin Patel and Prof. Axay Shah	A Study of Ambient Noise Quality Monitoring of GIDC, Vitthal Udyognagar, Gujarat	2 nd International Conference on Research and Innovations in Science, Engineering and Technology, September 2020
4.	Prof. Tausif Kauswala	Use of Silica Fume and Stone Dust as a Partial Replacement in Concrete	2 nd International Conference on Research and Innovations in Science, Engineering and Technology, September 2020

ACADEMIC ACHIEVEMENTS

4th Semester

Rank	Enrollment no	Name of student	SPI
1.	180010106014	Kagathara Keyur	8.00
2.	180010106019	Pandey Sonu	7.48

6th Semester

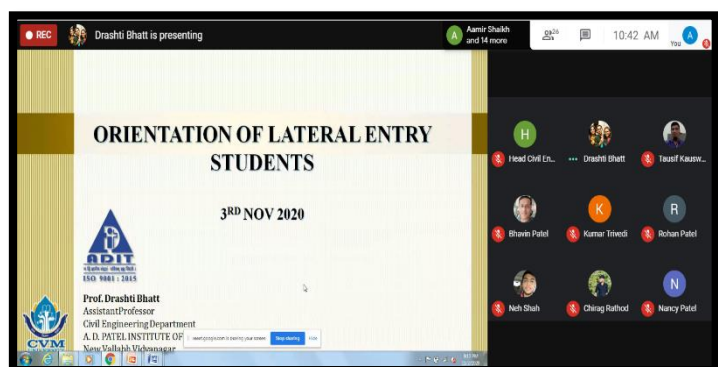
Rank	Enrollment no	Name of student	SPI
1.	170010106017	Savan Koyani	9.83
2.	170010106055	Sardarwali Mohammad	9.40

8th Semester

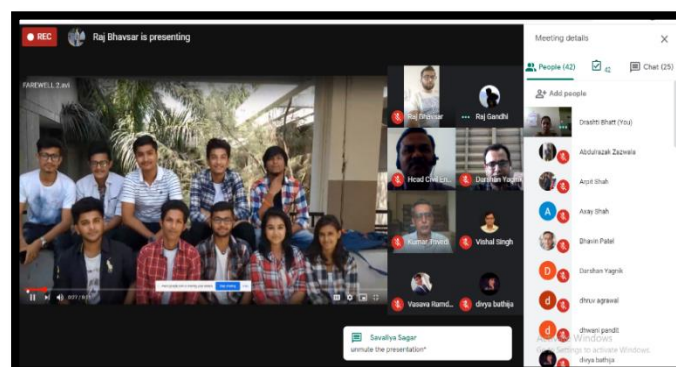
Rank	Enrollment no	Name of student	SPI
1.	160010106015	Amrita Kartha	10.00
1.	160010106039	Raj Bhavsar	10.00
2.	160010106022	Naik Neel	9.81

INTERACTION WITH STAKE HOLDERS

Sr. No.	Date	Description	No. of Participants
1.	22/06/2020	Parents Teacher Meet	40
2.	17/07/2020	Farewell Function 2016-2020 batch	42
3.	03/11/2020	Orientation Program of D-D Students of 2 nd year	18



Orientation Program of D-D Students of 2nd year

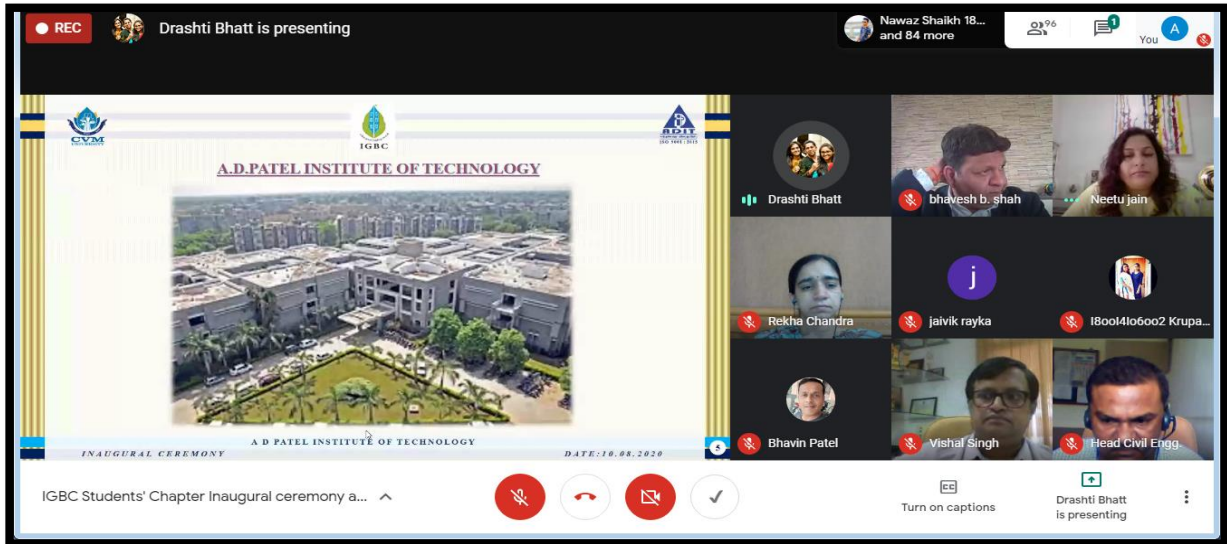


2016-2020 Batch Farewell Function (17/07/2020)

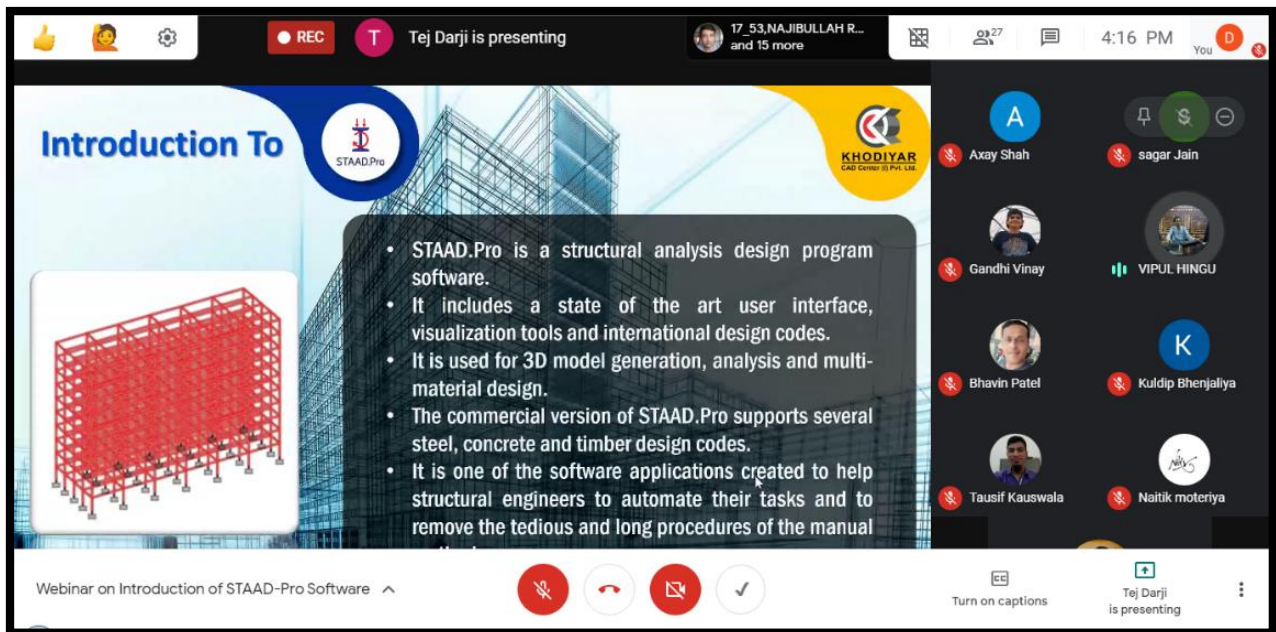
STUDENTS' ACHIEVEMENTS

1. Bathija Divya (160010106005), Shah Harsh (160010106048), Patel Parth (160010106032) and Virola Deep (160010106059) published a paper titled "Application of Six Sigma for Quality Improvement in Building Construction" in 'Journal of Engineering Technologies and Innovative Research', Volume 7, Issue 9, September-2020.
2. Patel Bhumit (180013106010) secured 1st rank in a poster competition on "Net Zero Efficient Building" and "Climate Change" during Green Building Week Celebration under Indian Green Building Council Students' Chapter on 24/9/2020.
3. Patel Urvi (180014106001) secured 2nd rank in a poster competition on "Net Zero Efficient Building" and "Climate Change" in Green Building Week Celebration under Indian Green Building Council Students' Chapter on 24/9/2020.
4. Bhavik Thanki (180013106024) secured 3rd rank in a poster competition on "Net Zero Efficient Building" and "Climate Change" in Green Building Week Celebration under Indian Green Building Council Students' Chapter on 24/9/2020.
5. Patel Urvi (180014106001) secured 1st rank in a quiz competition in Green Building Week Celebration under Indian Green Building Council Students' Chapter on 25/9/2020.
6. Sikhar Sangule (170010106041) and Shah Nisarg (170010106042) worked as a student coordinator in Green Building Week Celebration under Indian Green Building Council Students' Chapter during 21/9/2020 to 25/9/2020.
7. Devrajsinh Chauhan (180010106008) and Ratanpara Yug (190013106009) secured 2nd rank in a quiz competition in Green Building Week Celebration under Indian Green Building Council Students' Chapter Launch on 25/9/2020.
8. Rajan Tank (180013106023) secured 3rd rank in a quiz competition in Green Building Week Celebration under Indian Green Building Council Students' Chapter on 25/9/2020.
9. Hemang Dave (170010106009) worked as a Student Co-ordinator of E- Spectrum2020.
10. Kagathara Keyur (180010106014) secured 1st rank in poster making competition in E-Spectrum2020.
11. Hemang Dave (170010106009) is working as a house captain of Saheed Bhagat Singh House since 2020.
12. Jeet Chande (170010106006) secured 2nd rank in quiz competition organized by department on 16/1/2021.
13. Smit Kalathiya (170010106015), Parth Patel (180013106011) and Rohit Ashwin (180013106017) secured 3rd rank in quiz competition organized by department on 16/1/2021.
14. Patel Charmie (180010106022) secured 2nd rank in quiz competition organized by department on 16/1/2021.
15. Kagathara Keyur (180010106014) secured 3rd rank in quiz competition organized by department on 16/1/2021.
16. Savan Koyani (170010106017) secured 1st rank in quiz competition organized by department on 16/1/2021.
17. Parth Shah (190013106010) secured 1st rank in quiz competition organized by department on 16/1/2021.
18. Kagathara Keyur is currently working as a member in CENTRAL COMMITTEE of ADIT.
19. Dhyey Patel (180010106025) secured 1st rank in Brotherhood Cup and also secured the position of best goalkeeper on 17/09/2020.

PHOTO GALLERY



Inauguration of IGBC Students' Chapter ADIT -10/08/2020



Expert lecture on “STADD Pro Software”-14/08/2020



Expert lecture on “Green Building Rating System (During IGBC Week Celebration) on 21/08/2020

Vinod Malviya is presenting

17_22 JANVI PAN... and 66 more

Why is WHY so important

By 2030,

40 PERCENT of the population will have no access to drinking water

6 PERCENT India's GDP will be lost because of the water crisis

India's water demand is projected to be twice the available supply

Shubham

17_41 Shikhar Sengupta

Head Civil Engg.

17-64 TANMAY BHAGAT

Elita Patel

18_00106007 Barkhara Ch...

18_21 HARSH SHANI

17_0106003 MEHULKUMA...

Expert lecture on “STP Technologies for Water Efficiency”-22/08/2020

REC Amith m.c is presenting

17_38 KEVIN RADA... and 57 more

09:50 You

What Bombay House did Differently

Leading Factors ... RECs

Solar Thermal

Solar PV System

Rain Water Harvesting

Wind

Dual Flush Toilet

Faucet Aerator

Rain water Collection

Compost

Natural Landscaping

Energy Efficient Lighting

VFDs & BMS systems

Expert lecture on “Case Studies- Green Building”-23/08/2020

REC Bhasker Vijaykumar Bhatt is presenting

17_48 RUTVIJ S... and 46 more

09:57 3:40 PM You

The 74th Constitutional Amendment Act, 1992

05-10-2020 Housing for All – A Better Urban Future by Bhasker V. Bhatt

[TWELFTH SCHEDULE (Article 243W)]

1. Urban planning including town planning.
2. Regulation of land-use and construction of buildings.
3. Planning for economic and social development.
4. Roads and bridges.
5. Water supply for domestic, industrial and commercial purposes.
6. Public health, sanitation conservancy and solid waste management.
7. Fire services.
8. Urban forestry, protection of the environment and promotion of ecological aspects.
9. Safeguarding the interests of weaker sections of society, including the handicapped and mentally retarded.
10. Slum improvement and upgradation.
11. Urban poverty alleviation.
12. Provision of urban amenities and facilities such as parks, gardens, playgrounds.
13. Promotion of cultural, educational and aesthetic aspects.
14. Burials and burial grounds; cremations, cremation grounds; and electric crematoriums.
15. Cattle pounds; prevention of cruelty to animals.
16. Vital statistics including registration of births and deaths.
17. Public amenities including street lighting, parking lots, bus stops and public conveniences.
18. Regulation of slaughter houses and tanneries.]

You

17_11 HARSH HARWANI

Dixita Mistry

17_54_Niamatullah Mazidi

Darshan Yagnik

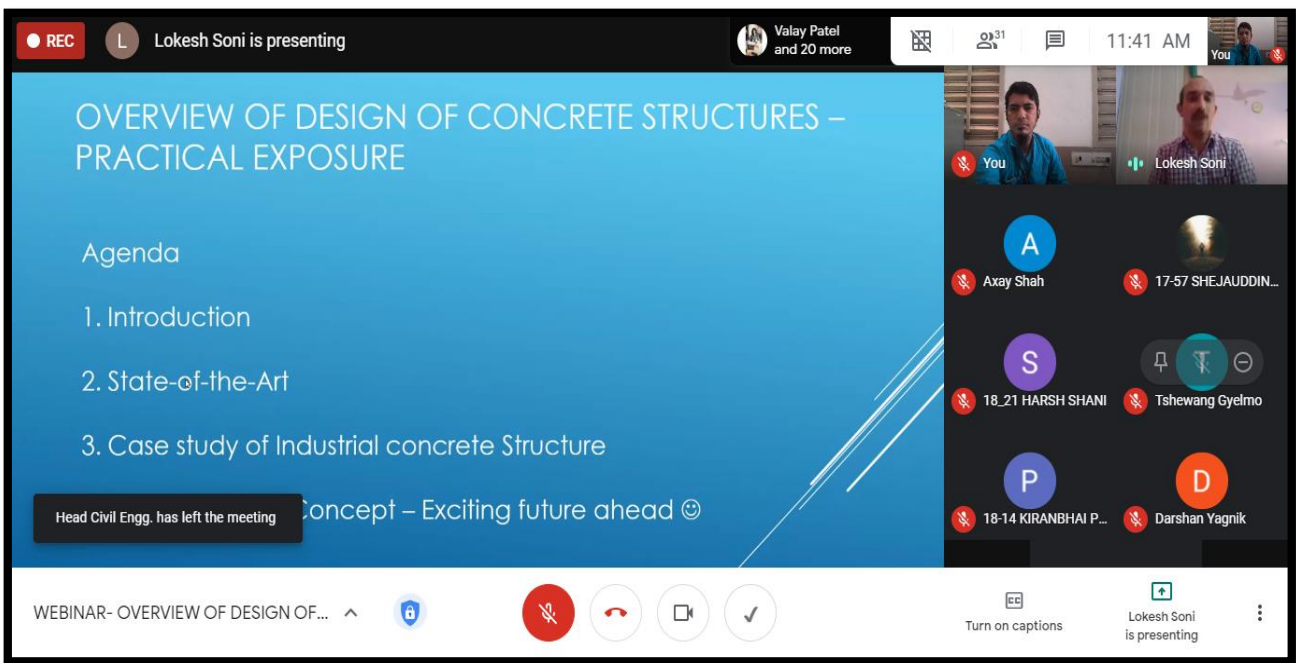
190013106003 VYOMESH G...

Drashti Bhatt

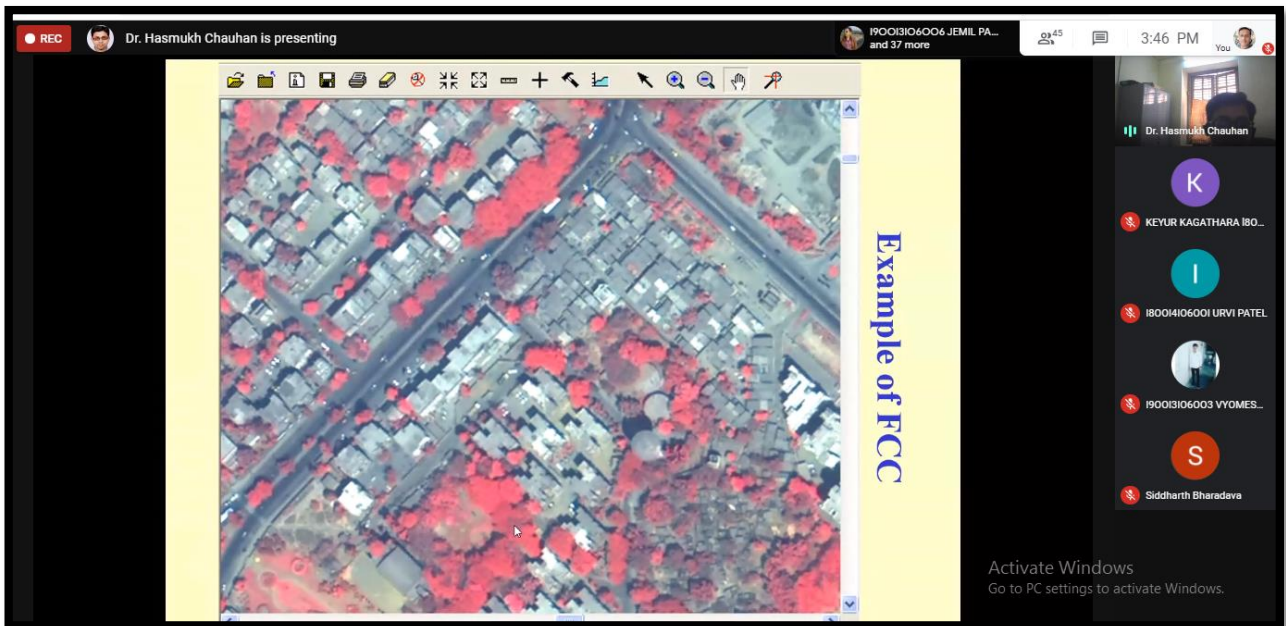
Ekta Patel

Bhasker Vijaykumar Bhatt

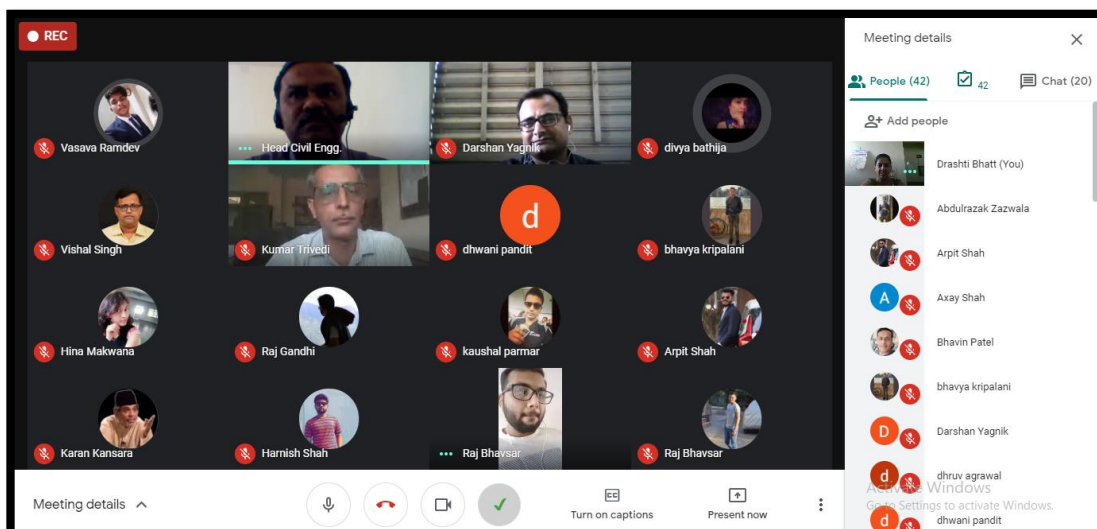
Webinar on “Housing for All- A Better Urban Future” Under World Habitat Day-2020 -05/10/2020



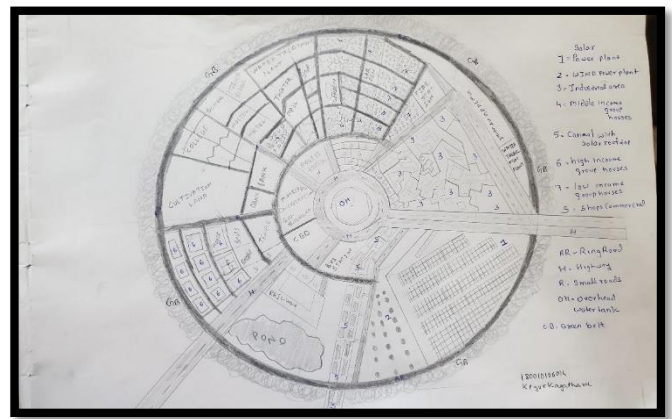
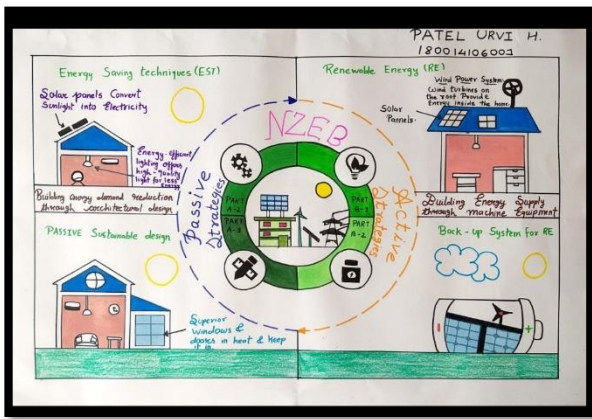
Expert lecture on “Overview of Design of Reinforced Structures: Practical Exposure”-24/10/2020



Expert lecture on “Digital Image Interpretation”-29/10/2020



2016-2020 Batch Farewell Function -17/07/2020



Best Posters of Technical Events during E-Spectrum 2020



Practical work in Concrete Technology & Highway Engineering Lab. During COVID-19 Period



Dhyey Patel (180010106025) Secured 1st Rank and Best Goal Keeper Award in Brother Hood Cup at Anand.

-END OF REPORT -