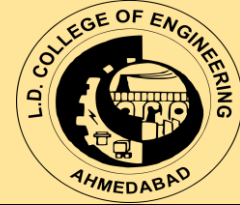




L.D. COLLEGE OF ENGINEERING AHMEDABAD
CIVIL ENGINEERING DEPARTMENT
KAIZEN-2020: ONLINE PROJECT PRESENTATION



**A
REPORT
ON**

Three Days

**“KAIZEN-2020:
ONLINE PROJECT PRESENTATION”**

Organized on
ZOOM-Online Platform

Organized by



**Civil Engineering Department,
L. D. College of Engineering,
Ahmedabad, Gujarat**

During: 6th April -8th April 2020

Organizing & Project Committee:

- Dr. R.B. Khasiya, Prof. & Head, Civil Engg. Dept.
- Prof. S.C. Rathod, Asst. Prof., Civil Engg. Dept.
- Prof. Utkarsh P. Nigam, Asst. Prof. Civil Engg. Dept.
 - Prof. S.S.Dixit, Asst. Prof., Civil Engg Dept.
 - Prof. J.S. Kamble, Asst. Prof., Civil Engg. Dept.



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PREFACE

L.D. College of Engineering, Ahmedabad has planned to organize an online internal project presentation “KAIZEN-2020” for all the 14 Departments. In the event more than 1400 students of all the departments in 510 teams represented their project online. In Civil Engineering Department total 101 students in 27 teams have presented the work and reviewed with a positive response by the project committee members



ORGANIZING COMMITTEE

Patron: Dr. R.K.Gajjar, Principal, L.D. College of Engineering Ahmedabad

H.O.D. of Host Department : Dr. R. B. Khasiya, H.O.D, Civil Engg. Dept., LDCE Ahmedabad

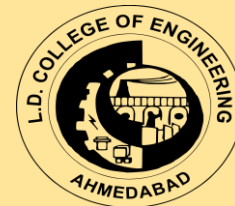
Members of Organizing Committee

Below mentioned faculty members of the Civil Engineering Department, LDCE Ahmedabad were assigned the following duties for the successful organization and conduction of the internal review.

Sr. No.	Name of Duty/ Duties	Name of Faculty Memebers
1.	Convener	Dr. R.B. Khasiya
2.	Coordinator, Project committee	Prof. S.C.Rathod
3.	Co-coordinator & committee Member	Prof. Utkarsh.P.Nigam
4.	Project committee member	Prof. S.S. Dixit
5.	Project committee member	Prof. J.S.Kamble



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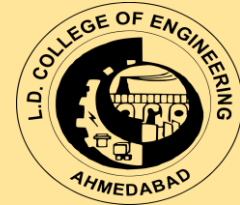
SCHEDULE OF THE KAIZEN-2020 (ONLINE INTERNAL REVIEW)

All the 27 projects were kept online from 4th April 2020 and the project presentation with internal review was organized from 6th April to 8th April 2020. Total 101 students in 27 Teams have presented the work and reviewed online using ZOOM platform.

L.D.COLLEGE OF ENGINEERING, AHMEDABAD						
CIVIL ENGINEERING DEPARTMENT						
FINAL YEAR PROJECT TITLE AND GUIDE DETAILS-2019-20						
DAY 1: 06.04.2020 (MONDAY)						
Group No.	DATE OF PPT	Time	Project Title	Guide	Enroll no	Student Name
1	6.4.20	3.00 PM	A CASE STUDY OF DHAROI DAM	Prof. Z J Chovatiya	160280106094	Prajapati Pragnesh Vishnubhai
					160280106073	PATEL KARTIKKUMAR ASHOKKUMAR
					160280106120	Vibhakar kishan
2	6.4.20	3.15 PM	Analysis of trip attraction rate for commercial land use	Prof. R N Shukla	170283106004	CHAUHAN MOHIT MAHENDRABHAI
					170283106006	Dudhrejiya maya pragneshbhai
					150280106114	Suthar akashkumar vasantbhai
					170283106026	Suthar Rajeshkumar Mahadevbhai
3	6.4.20	3.30 PM	Lean construction (Productivity improvement by implementation of lean construction tools)	Prof. P K Lalwani	170283106030	Vala Jaysinh Kanaksinh
					160280106055	Dhruv Mistry
4	6.4.20	3.45 PM	Design of water supply system for a virtual city	Prof. P K Lalwani	160280106083	Sunny Patel
					160280106091	Jimmy Prajapati
					160280106066	PARMAR HARDIK B.
5	8.4.20	4.00 PM	VISHWAKARMA YOJANA-CHITAL	Prof. U P Nigam	160280106122	Yadav manish shrinivas
					160280106115	Kevin harsukhbhai sutariya
					160280106121	Vyas Hardik Navinchandra
6	6.4.20	4.15 PM	Cinder waste material for construction of pavement layers	Prof. A M Mirza	160280106006	Bhagora Deep r
					160280106014	Chauhan pragneshkumar Arjunsinh
					160280106052	Mali Vipul
					160280106019	Darji Mayurkumar Dalabhai
7	6.4.20	4.30 PM	CORRECTIVE AND SUGGESTIVE	Prof. V J Chitaria	160280106068	Parmar Nikulkumar Manubhai



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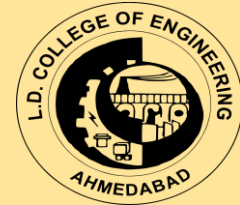
			IMPROVEMENT MEASURES FOR URBAN ROAD INFRASTRUCTURE - CASE STUDY OF SATELLITE AREA IN AHMEDABAD CITY		160280106093	Prajapati Mihir Ajitbhai
					160280106103	Sankaliya Rajbhai Dhanjeebhai
					160280106124	Zala Dipesh Bhupendrabhai
8	6.4.20	4.45 PM	Desalination Plant	Prof. U P Nigam	160280106051	Makwana Chirag
					160280106079	Patel Rahil R
					160280106086	Patel Zeel Shaileshkumar
					160280106113	Solanki Smit
					160280106070	Patel Chintankumar Dineshkumar
9	6.4.20	5.00 PM	Design and planning of self sustainable building	Prof. N J Dalal	160280106026	Gajera Rutuben Rajeshbhai
					160280106025	Doshi Smit Satishbhai
					160280106050	Lokhandwala Abbas Saifuddinbhai
					160280106064	Umang Pandya
10	6.4.20	5.15 PM	Design of Smart Parking in the Smart city	Prof. M S Gadhvi	160280106088	PRAJAPATI ALPESH PRABHUBHAI

DAY 2: 07.04.2020 (TUESDAY)

Group No.	DATE OF PPT	Time	Project Title	Guide	Enroll no	Student Name
11	7.4.20	11.00 AM	DESIGN OF STORM DRAINAGE NETWORK AND RAINFALL PATTERN ANALYSIS FOR ASLALI AREA OF AHMEDABAD CITY	Prof. P K Shah	170283106003	Chaudhari yogeshvari v.
					170283106013	Krupali Vijaykumar
					170283106015	Parmar Nishita Rameshbhai
					170283106016	Patel Neha Pravinbhai
					170283106022	Sathwara Dharaben v.
12	7.4.20	11.20 AM	Feeder circuit planning for Ahmedabad Metro	Prof. V J Chitaria	160280106059	Akhil Nair
					160280106116	Jay Tewary
					160280106046	Kori Sandipkumar Motilal
					160280106034	Yash Jain
					160280106047	Vedant Nikeshkumar Kotadiya
13	7.4.20	11.40 AM	HYDRAULIC BRIDGE	Prof. U P Nigam	160280106002	AYAR GAUTAMBHAI ARJANBHAI
					160280106029	GARVAL MITULKUMAR CHHAGANBHAI
					160280106061	Pampaniya kapil
					160280106117	Ulva chirag lakhabhai
					160280106092	PRAJAPATI KRUNAL DILIPBHAI
14	7.4.20	12.00 NOON	Hydroelectric Power Plant	Dr. R B Khasiya	160280106011	Chaudhari Meghna
					160280106033	JADEJA POOJABA SAMPATSINH



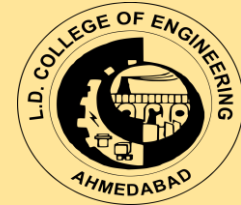
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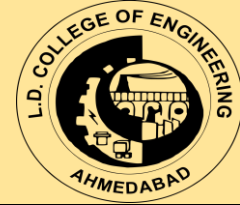
					160280106110	Preet Shah
					160280106085	PATEL UMANGKUMAR HARESHBHAI
16	7.4.20	3.00 PM	Innovation in Design of Energy Dissipation Device	Prof. M. M. Shaikh	170283106008	Gopani Nikulkumar Rameshbhai
					170283106009	GOSWAMI DHRUVGIRI RAMESHGIRI
					170283106019	Prajapati Avinash A.
					170283106021	Rathod jatin
					170283106025	Sonagara Meetkumar Hiteshbhai
17	7.4.20	3.20 PM	Planning and management of rural water supply scheme	Prof. S H Kazi	160280106089	Ashok Prajapati
					160280106071	Dhairya Amrutbhai Patel
					160280106074	Kaushik J Patel
					160280106119	Mayur Vaghela
					160280106076	PATEL Nikul Kumar Karashanbhai
18	7.4.20	3.40 PM	ROAD WITH VERTICAL AXIS WIND TURBINE	Prof. J S Kamble	160280106048	Lim bani Pragneshkumar Prakashbhai
					160280106053	Maulikkumar Dineshbhai Mangroliya
					160280106001	Akbari Mehul Mukeshbhai
					160280106112	Solanki Rakeshkumar Vishabhai
					160280106042	Vatsal Kanani
19	7.4.20	4.00 PM	Water purification by roughing filter	Prof. J P Modi	160280106077	Patel Prinkesh Nareshkumar
					160280106065	Parasiya Darshan
					160280106040	Joshi Urvisha Pankajbhai
					160280106114	Surani akash r
20	7.4.20	4.20 PM	VISHWAKARMA YOJANA- ASLALI	Prof. U P Nigam	170283106014	Parmar mitva Sanjaykumar
					160280106090	Prajapati Gauravbhai Dasharthbhai
DAY 3: 08.04.2020 (WEDNESDAY)						
Group No.	DATE OF PPT	Time	Project Title	Guide	Enroll no	Student Name
21	8.4.20	11.00 AM	Scada compressor method	Prof. R M Jadav	160280106007	Atri Bhatt
					160280106015	Chavda Dhruvil Anilkumar
					160280106022	Dave Dharmik Harshadkumar
					160280106005	Savan H Baria



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23	8.4.20	11.30 AM	Smart Vacuum Garbage Collection System For Residential Building	Prof. C N Bhavsar	160283106005	Chotaliya Bhaumik maheshbhai
					170283106010	Jadav vimalbhai Khodabhai
					170283106017	Patel Savanbhai Maheshbhai
					170283106023	Shah Jenir Naimish
					170283106028	Tank Meet Rajendrakumar
27	8.4.20	12.00 NOON	Artificial ground water recharge	Prof. U P Nigam	160280106049	LIMBOLA RAVIRAJBHAI MAHIPATBHAI
					160280106045	Rajnikant Kidecha
					160280106043	Khachar Bharat Bahadurbhai
25	8.4.20	12.20 PM	TRAFFIC SIGNAL COORDINATION	Prof. T H Vyas	160280106016	Chudasama Karan
					160280106020	DARJI SACHIN DIPAKKUMAR
					160280106023	DESAI APURVKUMAR AMRUTBHAI
					160280106056	MODHVADIYA JAYSHREEBEN HAJABHAI
26	8.4.20	3.00 PM	VEHICLE ACTUATED SIGNAL	Prof. M S Gadhvi	170283106001	BHIL SONABEN DEVSINGBHAI
					160280106010	Chaudhari Mayurkumar rajeshbhai
					160280106058	MORI VISHWAS DHIRUBHAI
					160280106078	Patel raginikumari Kantilal
24	8.4.20	3.20 PM	Stormwater Management	Prof. S S Dixit	160280106133	Judy Lalrinchhani
					160280106135	THEOPHIL THANGCHHUANA
					160280106125	Aviwie Nyuthe
					160280106131	Vetolu Swuro
28	8.4.20	3.45 PM	VISHWAKARMA YOJANA-GAMDI	Prof. U P Nigam	160280106096	Prajapati Vipul
					170283106024	Solanki Neetaben Tribhovandas
29	8.4.20	4.00 PM	VISHWAKARMA YOJANA-TIMBA	Prof. U P Nigam	160280106098	RANGANI KRUTAGNA PARSOTTAMBHAI
					160280106099	RATHAVA TUSHARBHAI SOMABHAI



Day 1 (6.4.2020) KAIZEN Poster & Project Review Report

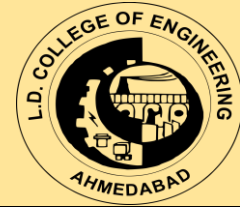
Out of the ten groups (33 students) presentation scheduled on the first day, all the project's presentation had been carried out online using zoom platform successfully. Respective project guides along with the project committee members, respective students and head of the department have joint the online presentation. Project committee members with project guide have reviewed the project based on the work done till date by students, the skills of presentation, methodology, presenting style, society innovation best approach in the project, it's utility and economy in society's concern.

As an overall faculty members, project guides students and committee members appreciated the effort of the online platform best internal review. Students were reviewed and asked questions related to their project more foxing on the methodology discussion and industry based approach of further using the project in the industrial aspect and societal aspect. Few of the screenshots of the online presentation has been carryout during the presentation and review. Feedback from the project guides and respective students were also taken after the end of online presentations.

Many of the innovative projects such as *Design of smart parking in the smart city, Design of self-sustainable building, trip attraction rate for commercial land use, suggestive improvements for urban road infrastructure, cinder waste material use in pavement layer, lean construction, development of desalination plants were discussed and presented. Also projects including case studies and design improvements were also included in the projects such as of the Hydrological analysis and perspectives of Dharoi dam, Design of water supply, Design of community components etc. were presented and discussed on the first day of review.*

Day 2 (7.4.2020) KAIZEN Poster & Project Review Report

On the 7th April, 2020 *nine project's (40 students) online review has been scheduled in two sessions, i.e. Morning session from 11 AM to 12.30 PM and 3 PM to 5 PM.* Out of the nine groups presentation scheduled on the second day all the project's presentation has been carried out online using zoom platform successfully. Respective project guides along with the project committee members, respective students of the group and head of the department have joined the online

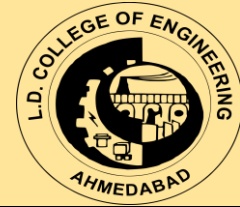


presentation. Project committee members & project guide have reviewed the project based on the work done till date by the students, the skills of presentation, methodology, literature survey carried out, presenting style, society innovation best approach in the project, it's utility and economy in society's concern. As an overall, faculty members, project guides students and committee members appreciated the effort of institute in organizing poster presentation on this online platform for conducting internal review. Students were reviewed and asked questions related to their project more focusing on the methodology, discussion and industry based approach of further using the project in the industrial and societal aspect. Few of the screenshots of the online presentation has been carryout during the presentation and review. Feedback from the project guides and respective students were also taken after the end of online presentations.

Many of the innovative projects such as *development of innovative hydropower plants, Innovation in Design of energy dissipation devices, Road with vertical axis wind turbine, water purification by roughening filter, hydraulic bridge, feeder circuit planning for Ahmedabad Metro were presented. Projects based on real case studies and sustainable innovative design approaches such as Planning and management of rural water supply scheme, design of storm drainage network design, Design of community components etc. were also presented and discussed on the second day of review.* Comments, reviews, suggestions and scope of improvements were given by faculty members, project committee members, head of the department and guide.

Day 3 (8.4.2020) KAIZEN Poster & Project Review Report

On 8th April, 2020, Eight project's online review has been *scheduled in two sessions, i.e. Morning session from 11 AM to 12.30 PM and 3 PM to 5 PM.* Out of the Eight groups (28 students) presentation scheduled today all the project's presentation has been carried out online using zoom platform successfully. Respective project guides along with the project committee members, respective students of the group and head of the department have joined the online presentation. Project committee members & project guide have reviewed the project based on the work done till date by the students, the skills of presentation, methodology, literature survey carried out, presenting style, society innovation best approach in the project, it's utility and economy in society's concern. As an overall, faculty members, project guides students and committee members appreciated the



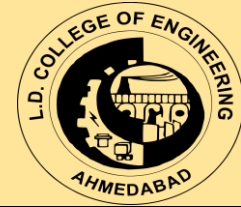
effort of institute in organizing poster presentation on this online platform for conducting internal review. Students were reviewed and asked questions related to their project more focusing on the methodology, discussion and industry based approach of further using the project in the industrial and societal aspect. Few of the screenshots of the online presentation has been carryout during the presentation and review. Feedback from the project guides and respective students were also taken after the end of online presentations.

Many of the innovative projects such as *SCADA Application in Water Distribution Network, Smart Vacuum Garbage collection system, Vehicle Actuated signal, Advanced Traffic coordination system, . Projects based on real case studies and sustainable innovative design approaches such as Artificial groundwater recharge, design of storm drainage network design, Design of community components etc. were also presented and discussed* on the third and final day of review. Comments, reviews, suggestions and scope of improvements were given by faculty members, project committee members, head of the department and guide.

GENERAL COMMENTS AND FEEDBACK OF PROJECT GUIDE

- Faculty guides have coordinated the project work on online platform for preparing the project presentation/ poster. Guides have appreciated the efforts of students in project work.
- Students have worked hard for the realistic problem's solution.
- Students have gone through the case studies, sufficient literature survey, data collection in rural and urban area of project domain. They have learnt a lot after assessing the potential of project and worked realistically and practical for its solution..
- The project work is found satisfactory. Students have tried well. Presentation skills were also good. Suggested to use some software/ technique/ methods to implement in the project.
- Extreme satisfaction and good review has been obtained and concluded in the general feedback received by the faculty members through online Google form.

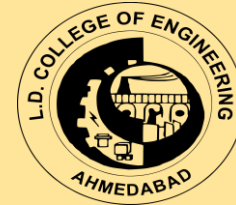
SPECIFIED COMMENTS BY FACULTY MEMBERS		
Sr. No.	Name of Faculty	Feedback/Comment
1	Dr. M.S.Gadhavi	Overall, it is a good concept with unique idea of sharing of private spaces for parking in busy city



		areas. There are few Apps based on concept of geo-referenced parking system in the market. Further hardware part to develop such an system in a city is main concern.
2	Prof. R.M.Jadav	Students hard work is seen and they have obtained real problem's solution. The problem belongs to the water distribution supply and students have provided SCADA based solution.
3	Prof. R.N.Shukla	To develop regression model is suggested. Query about status of paper publication in journal. good team work but time spared for project is less.
4	Prof. P.K.Lalvani	Professors always guide students in the long journey of the project work. They make surety that students meet the deadlines on time. Because of this today students have achieved the target of making research paper out of this project at this level.

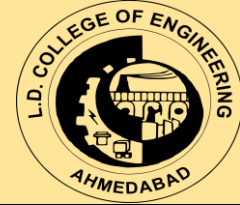
GENERAL COMMENTS AND FEEDBACK OF STUDENTS

- Online organization of project review is found to be a promising platform for presenting project work at KAIZEN-2020.
- Enthusiasm and support shown by organizing committee and project guide during the project work is outstanding.
- Many of the queries have been solved by the project guide and head of the department related to the project and project review.
- Project review based on the work done and methodology is found practical and helpful.
- Satisfactory review has been obtained and concluded in the general feedback received by the project students through online Google form.
- Technical&Network issues have been seen by students of remote area while joining in online presentation, however majority of student have not faced any network related problem.



SPECIFIED COMMENTS BY STUDENTS

Sr. No.	Name of the Student	Enrollment Number	Feedback/Comment
1	Chauhan Mohit Mahendrabhai	170283106004	The review through online medium is found good and satisfactory. In our project we collect trip attraction rate on shopping mall. And also visiter & employees data related with our project.
2	Darji Sachin	160280106020	We found the online medium confortable for the online review and coordination of faculty guide is appreciable. With the implementation of coordinated traffic signals on Major urban routes, delay can be reduced effectively, and will maximize the utilisation of the existing transportation facilities of the city. Which will result into speedy transportation of goods and people.
3	Pragnesh Chauhan	160280106014	The online session, presentation and review has been found good and promising. In our project we select two industrial waste materials cinder and steel slag, and performed analysis.
4	Dipesh Zala	160280106124	Discussion with project guide and integration with faculty members was found quite confortable. The urban transportation infrastructure is one of the most important component for the cities, and involves many aspects that concern to citizens, goverment and the socio-economical growth of the people. The development of urban road infrastructure systems is an integral part of smart city.



IDENTIFIED INNOVATIVE PROJECTS & CONCEPTUAL MODELS

- *Design of smart parking in the smart city,*
- *Smart Vacuum Garbage collection system*
- *Design of self-sustainable building*
- *SCADA Application in Water Distribution Network,*
- *Cinder waste material use in pavement layer*
- *Design of energy dissipation devices,*
- *Road with vertical axis wind turbine,*
- *water purification by roughening filter*

INNOVATIVE PROJECTS DETAILS

1. Name of Project : Design of Smart Parking Network in the Smart City

Team Leader:- Prajapati Alpesh Prabhubhai (160280106088)

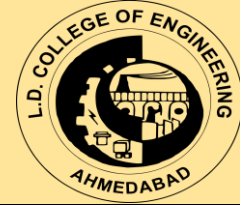
Project Guide:- Dr. M.S. Gadhavi

Aims and Objectives :-

1. Providing an application to find geo-tagged parking spot in the city center.
2. Provide interface to reserve available parking space using mobile application.
3. GPS navigation to the parking spot, hassle free parking and retrieval of the car.
4. Parking regulation using mobile application based interface with smart billing system by replacing the paper-based ticketing
5. Car security and protection in the parking lot with automated barrier system.
6. Provision to involve citizen to rent out private space on hourly basis for paid parking in busy city areas

Modules designed are

1. Android App to locate and reserve the parking.
2. Design of boom- barrier or spike guard in the parking area for car security Ready business model



2. Name of the Project: Smart Vacuum Garbage Collection System For Residential Building

Team Leader & Other Members:- Chotaliya Bhaumik maheshbhai(160283106005),
Jadav vimalbhai Khodabhai(170283106010), Patel Savanbhai Maheshbhai(170283106017)
Shah Jenir Naimish(170283106023), Tank Meet Rajendrakumar(170283106028)

Project Guide:- Prof. C.N.Bhavsar

OBJECTIVES:

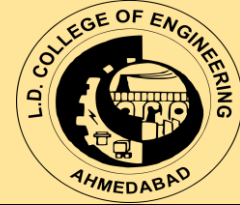
- To minimize the operating cost of municipal solid waste.
- To minimize the use of garbage collection truck in urban areas.
- To minimize the air, land and noise pollution from municipal waste collection method.
- To collect different types of waste separately.

INNOVATION

- This system represents a new way of dealing with the waste in densely populated urban areas. The development of underground infrastructures for the efficient management and collection of urban waste offers great advantages and solutions in tackling problems relating to the conventional method. This system is 24 by 7 operational and pipe network have valve system.
- The underground vacuum (pneumatic) pipe system can collect the waste from shops, restaurants, boutiques, offices and householders. Vacuum collection system reduces manpower and traditional storage bins. Waste is transported from buildings through an underground pipe network, to a central collection station where it is collected and recycled.

USEFULNESS

- SVGCS system will minimized the operational cost of municipal solid waste management, therefore it provides long term savings.
- This system has ability to collect efficiently all types of waste.
- It is flexible with the ability to easily adopt all types of changes.
- It minimizes the use of garbage collection trucks in urban areas.
- It minimizes air pollution, noise pollution, aesthetic pollution and odour nuisance from MSW (municipal solid waste).



- Space traditionally reserved for communal waste room can be reallocated for commercial development of parks and public spaces.
- It is safe and hygiene for MSW collection workers.
- The system helps in reducing health risks and also improves the living standards for the residents.

3. Design and Planning of Self Sustainable Building

Team Leader:- Gajera Rutuben Rajeshbhai (160280106026)

Team Members:-, Doshi Smit Satishbhai (160280106025), Lokhandwala Abbas Saifuddinbhai (160280106050), Umang Pandya (160280106064)

Project Guide:- Prof. N.J.Dalal

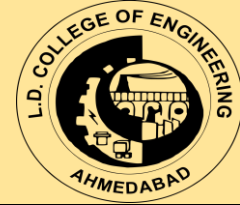
Self Sustainable buildings are structures that are built in an environmentally responsible manner by maximizing the use of materials, minimizing the use of resources and ensuring the health and well-being of occupants and the surrounding the built environment both today and for generations to come. Self-sustainable building codes and assessment schemes have been developed on a global basis to give guidance on the factors to review during a building's life cycle that enhance sustainability and minimize environmental impact.

Objective:

- To identify the methods which can be effectively applied in all the buildings so that it serves maximum use of energy consumed with the economic criteria.
- To maximize the potential for using renewable energy in an efficient manner and thereby producing minimum waste.
- By increasing re-use and recycling both during construction and after the occupation
- To conserve resources and to maximize the use of used water.
- To decrease polluting emission to water, air, and soil.
- To maximize use of material from sustainable sources.

Components:

- Orientation of building
- Cavity wall
- Solar panel



- Building Integrated Photovoltaics
- Solid waste management: - Biogas
 - Collection of waste
- Rainwater harvesting
- Wastewater reuse

A self-sustainable building is an end result of a design philosophy which focuses on increasing the efficiency of resource use electricity, water, and various materials, while reducing building impacts on human health and the surrounding environment during the building's lifecycle, through better sifting, design, construction, operation, maintenance, and demolition. Though self-sustainable building is interpreted in many different ways, a common view is that they should be designed and operated to reduce the overall impact of the built environment on human health and the environment by

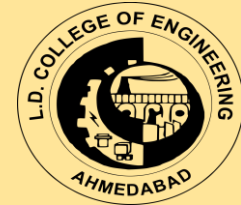
- (a) Efficiently using energy, water, and other resources,
- (b) Protecting occupant health and improving employee productivity, and (c) Reducing waste, pollution and environmental degradation.

CONCLUDING REMARKS

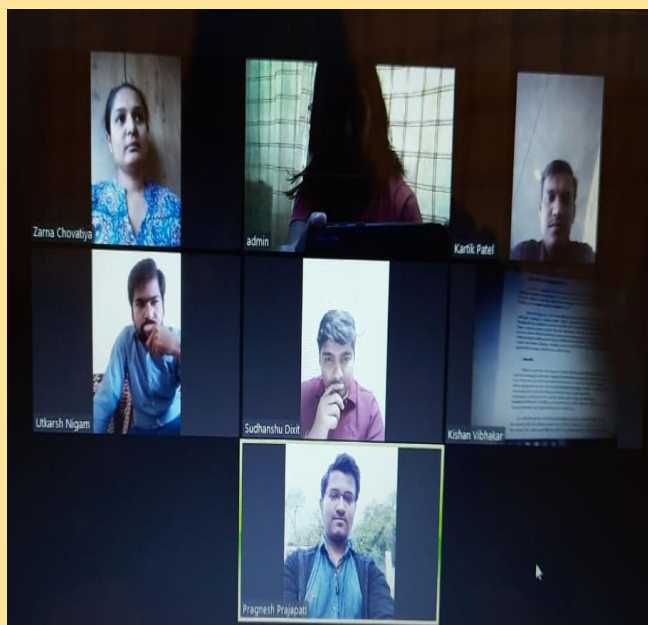
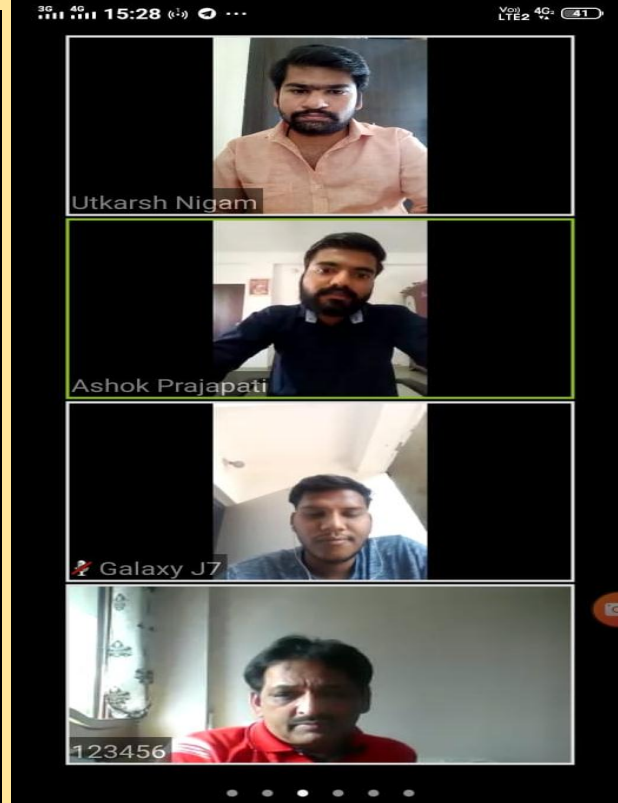
Civil Engineering Department of L.D.C.E. Ahmedabad has successfully coordinated in organizing the Online KAIZEN-2020. As a whole, 101 students associated with 27 teams have presented the project work successfully using the ZOOM based online platform. Organizing committee has received positive feedbacks from the student participant and for the organization of this KAIZEN-2020 online using ZOOM based platform. Project guides have appreciated the efforts of the students for participating in this Project Review- KAIZEN-2020 online. On the first day 10 groups and 33 students have presented the project online, on second day 9 groups and 40 students have presented and on the third day 28 students in 8 groups have presented the work. As a whole, head of the department, faculty members, project guides and students have praised the effort of institute and department in online organizing of KAIZEN-2020.

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#Attached Screenshots of the Presentations



#Attached Screenshots of the Presentations





L.D. COLLEGE OF ENGINEERING AHMEDABAD
CIVIL ENGINEERING DEPARTMENT
KAIZEN-2020: ONLINE PROJECT PRESENTATION

