



A.D. PATEL INSTITUTE OF TECHNOLOGY  
(AFFILIATED TO CHARUTAR VIDYA MANDAL UNIVERSITY)



# NIRMAAN

THE NEWSLETTER: DEPARTMENT OF CIVIL ENGINEERING

“ENGINEERING IS THE CLOSEST THING TO  
MAGIC THAT EXISTS IN THE WORLD.”



January 2020 – June 2020, ISSUE NO.4



**Dr. VISHAL SINGH**  
PRINCIPAL, ADIT

## FROM THE DESK OF PRINCIPAL

At the outset, I congratulate the Civil Engineering Department for the release of fourth issue of departmental newsletter “NIRMAAN”. The current pandemic situation has initiated the need of digital education. The faculty members of Civil Engineering Department accepted this challenge and provided the knowledge through various technical webinars to the students’ community. This newsletter gives an overview to the stakeholders about the achievements of faculty and students. It is expected that Department of Civil Engineering will continue the practice of publishing the newsletter in future too.

## FROM THE DESK OF HEAD OF THE DEPARTMENT



I am happy to release the 4<sup>th</sup> issue of newsletter of Civil Engineering Department for the period of January to June 2020. During the COVID -19 pandemic since March 2020, department has organized many online lectures and webinars. Through online mode technical knowledge sharing has continued which reflects through activity report. I congratulate students and faculty members for active participation in all the activities. Department has started “Unnat Bharat Abhiyan” project under which survey of 5 villages will be carried out in Anand District.

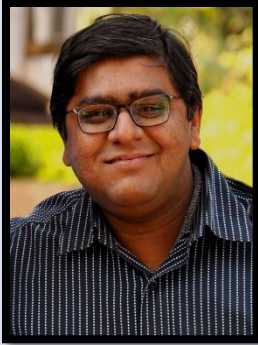
**Dr. RAJIV BHATT**

Head, Civil Engineering Department,  
A. D. Patel Institute of Technology.

Email: head.civil@adit.ac.in

## MESSAGE FROM EDITORIAL BOARD

It is our great pleasure that we are coming up with the fourth issue of Newsletter for Civil Engineering Department. We feel privileged for the faith reposed in us for performing the role of editor of Department's Newsletter. The lockdown has brought everything to standstill. At Civil Engineering Department, we have come up with various initiatives to respond to the COVID-19 challenge so that the delay in our academic schedule is minimized without impacting the studies. The current newsletter highlights the activities of our students and the achievements of faculties during the past six months.



Prof. Axay Shah  
(Assistant Professor)



Krushil Patel  
(Final Year)



Princee Soni  
(Third Year)



Sonu Pandey  
(Second Year)

### Editorial Board Members

Chief Editor	Dr. Rajiv Bhatt, Head & Associate Professor
Editor	Prof. Axay Shah, Assistant Professor
Student Editor	Krushil Patel (Fourth Year 170013106010)
Team Members	Princee Soni (Third Year 170010106047), Sonu Pandey (Second Year 180010106019)

### KEY ACHIEVEMENTS OF DEPARTMENT

Sr No.	Details of Achievements
1.	Department has received a grant of <b>Rs. 50,000/-</b> from Govt. of India under “ <b>UNNAT BHARAT ABHIYAN (UBA)</b> ” scheme, for sustainable rural development. Department is going to do survey about Infrastructural facilities for 5 towns of Anand district: Boriya, Hadgood, Rahtalav, Meghva Gana and Vaghasi.
2.	Department of Civil Engineering, ADIT has been selected by <b>National Highway Authority of India (NHAI)</b> for adopting few stretches of National Highways (NH) under <b>Institutional Social Responsibility (ISR)</b> for Hands-on-Learning, Internships for the students. Faculties will get areas for research & access to their data.
3.	Students from final year Desai Nisarg (160010106008), Gambhava Kirit (160010106011), Bhavya Kriplani (160010106018) & Raj Bhavsar (160010106039) under the guidance of Prof. Kumarpal Trivedi has got the grant of <b>Rs. 90,000/-</b> for their project on “ <b>Mobile Shelter with Light Gauge Steel Frame</b> ” under <b>SSIP Scheme</b> .

## DETAILS OF CO-CURRICULAR ACTIVITIES

Sr. No	Date	Detail of Event/ Activity	Group of Students	No. of Students Participated	Subject	Faculty Coordinator
1	24/01/2020	Construction Site Visit of Krishna Towers, A.V. Road, Anand	4 <sup>th</sup> year	12	Repairs And Rehabilitation of Structures	Prof K R Trivedi
2	11/02/2020	Construction Site Visit of Industrial Steel Structure at Anupam Industries, GIDC, V.U.Nagar	4 <sup>th</sup> year	41	Design of Steel Structures	Prof Tausif Kauswala
3	15/02/2020	Visit of National Academy of Indian Railway, Vadodara	3 <sup>rd</sup> year	47	RBT	Prof. Axay Shah. & Prof. Bhavin Patel
4	17/02/2020	Construction Site Visit at Sukirtan Flora Project, New V.V.Nagar	3 <sup>rd</sup> year	52	Elementary Structural Design	Prof Darshan Yagnik
5	24/02/2020	Expert Lecture on “Recent Developments in High Speed Rails” by Mr. Ashit Shah , Japan International Consultant	3 <sup>rd</sup> year	89	Railway, Bridge And Tunnel Engineering	Prof Axay Shah
6	29/02/2020	One Day Workshop on “Structural Analysis and Design using STAAD-Pro Software”	4 <sup>th</sup> year	45	Design of Reinforced Concrete Structures	Prof Darshan Yagnik
7	04/03/2020	Industrial Site Visit at MAPEI Construction Products India Pvt. Ltd. At Vadodara	4 <sup>th</sup> year	12	Repairs And Rehabilitation of Structures	Prof K R Trivedi
8	14/03/2020	Expert Lecture on “Advancement in Construction Equipments” by Mr. Deepak Sharma, R&D Eimco Elecon Ltd.	3 <sup>rd</sup> year	59	Advanced Construction Equipment	Prof Tausif Kauswala
9	14/03/2020	Poster Competition on Advancement in Construction Equipments	3 <sup>rd</sup> year	56	Advanced Construction Equipment	Prof Tausif Kauswala
10	24/05/2020	Quiz Competition	2 <sup>nd</sup> year	48	-	Prof Tausif Kauswala
11	26/05/2020	Quiz Competition	3 <sup>rd</sup> year	48	-	Prof. Drashti Bhatt
12	26/05/2020	Quiz Competition	4 <sup>th</sup> year	54	-	Prof. Bhavin Patel

**KNOWLEDGE ENHANCEMENT PROGRAMS ATTENDED BY FACULTY MEMBERS (ONLINE)**

<b>Sr No</b>	<b>Name Of Faculty</b>	<b>Type of Program</b>	<b>Details of Program</b>
1.	Dr. Rajiv Bhatt	Workshop / Seminar/ FDP	“Triple Constraints in Project Management” on 6 <sup>th</sup> May 2020.
			“Success Attributes of Project” on 19 <sup>th</sup> May 2020.
2.	Prof. Kumarpal Trivedi	Workshop / Seminar/ FDP	“Recent Trends and Scope in Civil Engineering” from 2 <sup>nd</sup> June to 4 <sup>th</sup> June 2020.
			“Seismic Response of Retaining wall” on 6 <sup>th</sup> April 2020.
3.	Prof. Darshan Yagnik	Workshop / Seminar/ FDP	“Project Management Consultancy” on 11 <sup>th</sup> April 2020
			“Philosophy of Design as per IS: 456- 2000” from 27 <sup>th</sup> April to 1 <sup>st</sup> May 2020.
4.	Prof. Drashti Bhatt	Workshop / Seminar/ FDP	“Construction Techniques” on 11 <sup>th</sup> April 2020.
			“Science of Global Climate Change” on 24 <sup>th</sup> May 2020.
5.	Prof. Bhavin Patel	Workshop / Seminar/ FDP	“Global Navigation Satellite System and its Navigation” from 23 <sup>rd</sup> to 24 <sup>th</sup> May 2020.
			“Emerging trends in Civil Engineering” from 22 <sup>nd</sup> to 26 <sup>th</sup> June 2020.
6.	Prof. Tausif Kauswala	Workshop / Seminar/ FDP	“Prominent areas of Civil Engineering” from 13 <sup>th</sup> to 17 <sup>th</sup> May 2020.
			“Recent Advances in Civil Engineering” from 17 <sup>th</sup> to 21 <sup>st</sup> June 2020.
7.	Prof. Axay Shah	Workshop / Seminar/ FDP	“Road Pavement Design” on 15 <sup>th</sup> May 2020.
			“Pavement Design, Construction and Rehabilitation” from 25 <sup>th</sup> to 27 <sup>th</sup> June 2020.

**RESEARCH PAPER PUBLICATION**

<b>Sr. No</b>	<b>Name Of Faculty</b>	<b>Title</b>	<b>Date &amp; Month</b>	<b>Name of Journal</b>	<b>ISSN No.</b>
1.	Dr. Rajiv Bhatt	Study on Effect of Urban Heat Island and Its Relationship with Urbanization: A Review	April 2020	Studies in Indian Place Names	2394-3114

## ACADEMIC ACHIEVEMENTS (2019-20)

### Semester: 3

Rank	Enrollment no	Name of student	SPI
1	190013106009	Yug Ratanpara	7.70
2	180010106005	Patel Dhyey	7.65
	190013106003	Vyomesh Gamit	7.65

### Semester: 5

Rank	Enrollment no	Name of student	SPI
1	170010106055	Sardarwali Mohammad	8.87
2	170010106017	Savan Koyani	8.77

### Semester: 7

Rank	Enrollment no	Name of student	SPI
1	160010106015	Amrita Kartha	9.35
2	160010106008	Nisarg Desai	9.23

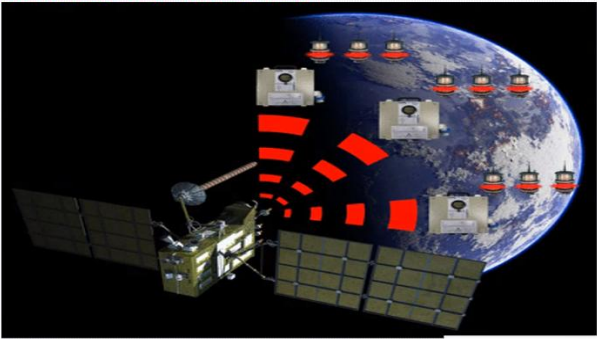
## ACTIVITIES CONDUCTED DURING LOCKDOWN

### 12<sup>TH</sup> STANDARD STUDENTS' WEBINAR SERIES

Sr No	Date	Title	Faculty coordinators
1	4 <sup>th</sup> to 14 <sup>th</sup> May 2020	"Infrastructure Development and Civil Engineering"	Prof. Kumarpal Trivedi
2	21 <sup>st</sup> to 23 <sup>rd</sup> May 2020	"Role of Civil Engineering in Common Man's Life"	Prof. Drashti Bhatt
3	28 <sup>th</sup> to 30 <sup>th</sup> May 2020	"Systematic Engineering Approach For Civil Projects"	Prof. Drashti Bhatt
4	1 <sup>st</sup> to 3 <sup>rd</sup> June 2020	"Fundamentals of Civil Engineering"	Prof. Darshan Yagnik
5	8 <sup>th</sup> to 10 <sup>th</sup> June 2020	"Fundamentals of Civil Engineering"	Prof. Tausif Kauswala

A D PATEL INSTITUTE OF TECHNOLOGY CIVIL ENGINEERING DEPARTMENT

## SATELLITE VEHICLES



22/05/2020 GLOBAL POSITIONING SYSTEM  
SPEAKER: PROF. BHAVIN V. PATEL

meet.google.com is sharing your screen Stop sharing Hide Page No: 8

Add people

- Drashti Bhatt (You)
- Aksh Kapadia
- Axay Shah
- Bhavin Patel (Presentation)
- Bhavin Patel
- buntaria parthiv
- Chitt Bhavsar
- Dishank Mehta
- Fathima Zulaikha
- Haisav Chokshi


“Introduction of GPS” lecture by Prof. Bhavin Patel on 22/05/2020



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## TRAFFIC SIGNS & IT'S IMPORTANCE

### What is Traffic Signs?

- Traffic signs are means for exercising control on or passing information to the road users.
- Traffic signs are helpful in regulating traffic by imparting messages to the drivers about the need to the stop, give way, speed limit, etc.
- They give timely warning of hazardous, when they are not evident.
- They give information about highway routes , directions and points of interest.



ROLE OF CIVIL ENGINEERING IN COMMON MAN'S LIFE  
Speaker: AXAY SANAT SHAH

AXAY SHAH

Chitt Bhavsar

Head Civil Engg.

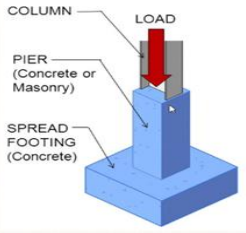
“Traffic Signs & Its Importance” lecture by Prof. Axay Shah on 23/05/2020

Tausif Kauswala is presenting

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## Types of Foundation

**Footing:-**  
A footing is a foundation unit constructed under the base of column or wall for the purpose of distributing load over large area.



COLUMN  
LOAD  
PIER (Concrete or Masonry)  
SPREAD FOOTING (Concrete)

TYPES OF FOUNDATION  
Speaker: PROF. TAUSIF KAUSWALA

Meeting details

People (5)

- Darshan Yagnik (You)
- Devanahu Prajapati
- Riddhish Modi
- Tausif Kauswala (Presentation)
- Tausif Kauswala

Tausif Kauswala

Devanahu Prajapati

Riddhish Modi

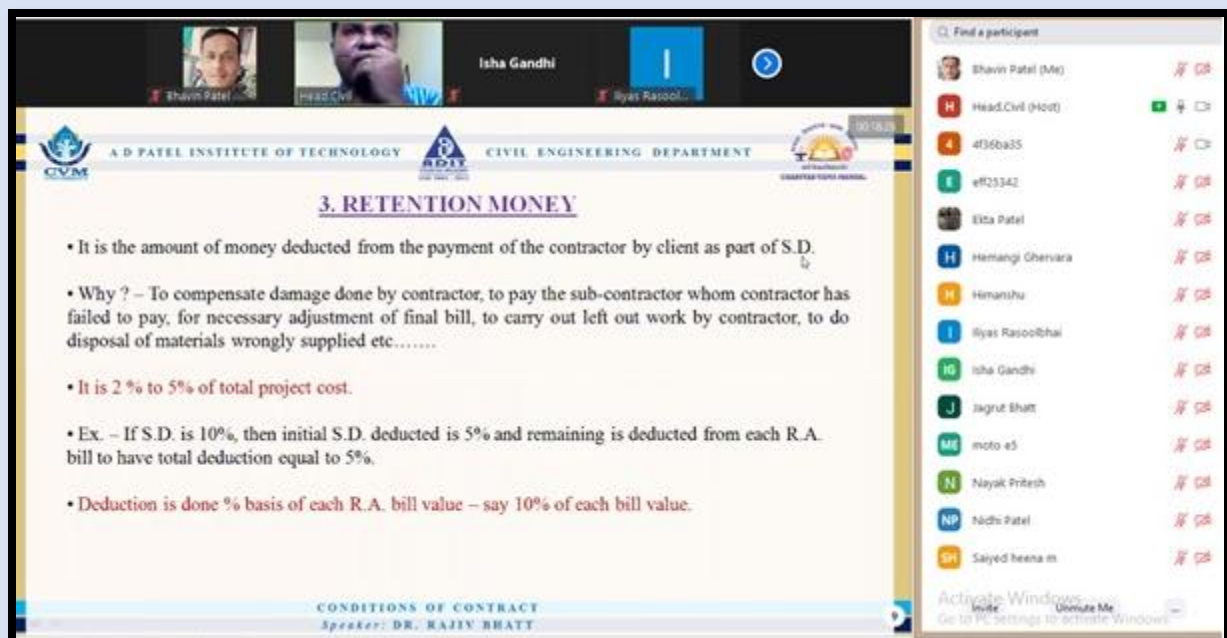
“Types of Foundation” lecture by Prof. Tausif Kauswala on 09/06/2020



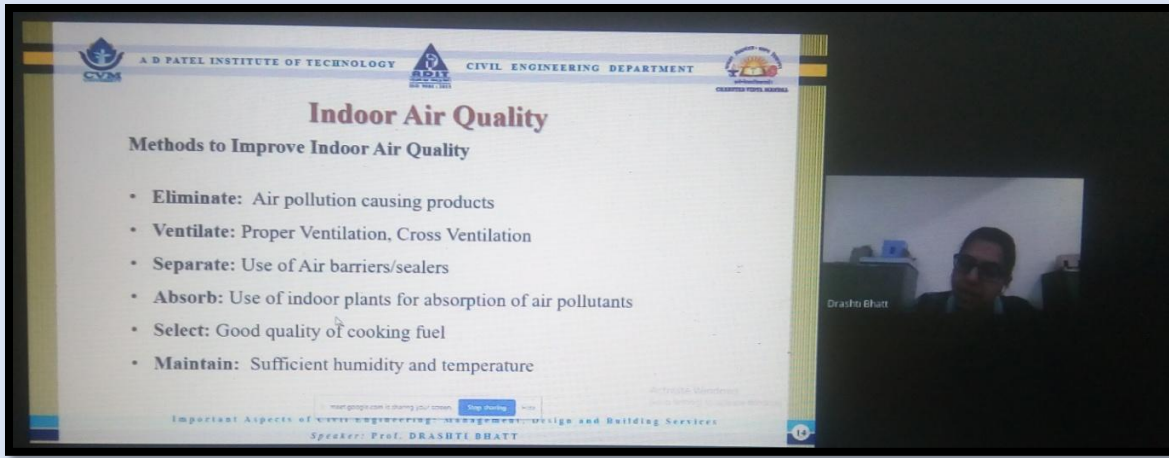
“Basics of Force and Forces System” lecture by Prof. Darshan Yagnik on 10/06/2020

## FINAL YEAR DIPLOMA STUDENTS’ WEBINAR SERIES

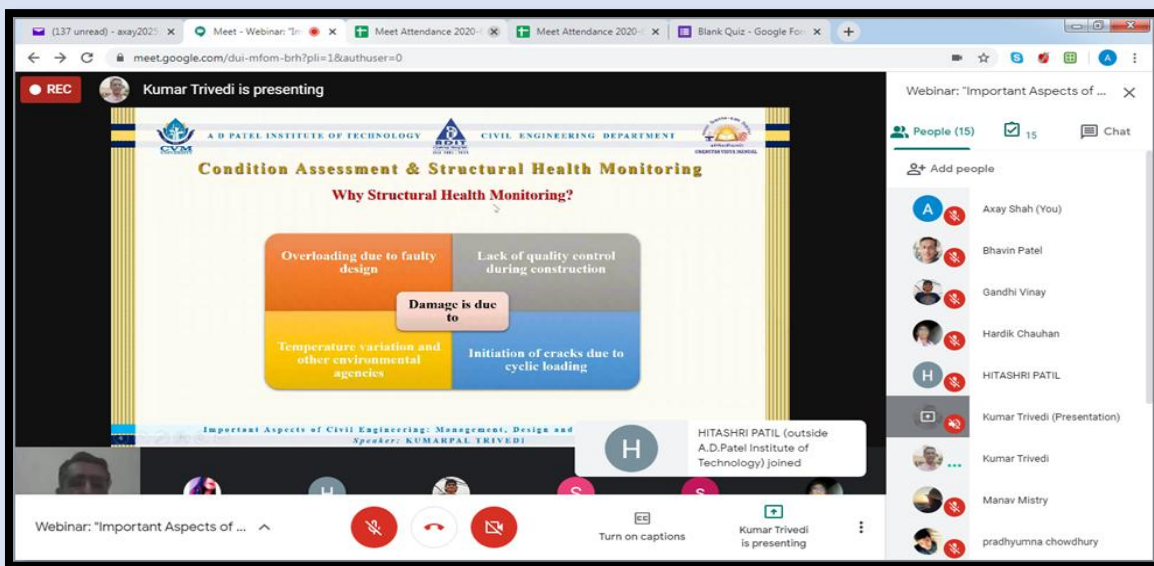
Sr No	Date	Title	Faculty coordinators
1	11 <sup>th</sup> to 14 <sup>th</sup> May 2020	“Important aspects of Civil Engineering: Design, Construction Management and Maintenance”	Prof. Kumarpal Trivedi & Prof. Darshan Yagnik
2	26 <sup>th</sup> to 29 <sup>th</sup> May 2020	“Important aspects of Civil Engineering: Contracts, Design and Building Services.”	Prof. Bhavin Patel
3	8 <sup>th</sup> to 10 <sup>th</sup> June 2020	“Important aspects of Civil Engineering: Material Management and Building Services.”	Prof. Axay Shah.
4	25 <sup>th</sup> to 27 <sup>th</sup> June 2020	“Important aspects of Civil Engineering: Network, Design and Harvesting.”	Prof. Tausif Kauswala



“Conditions of Contract” lecture by Dr. Rajiv Bhatt on 26/05/2020



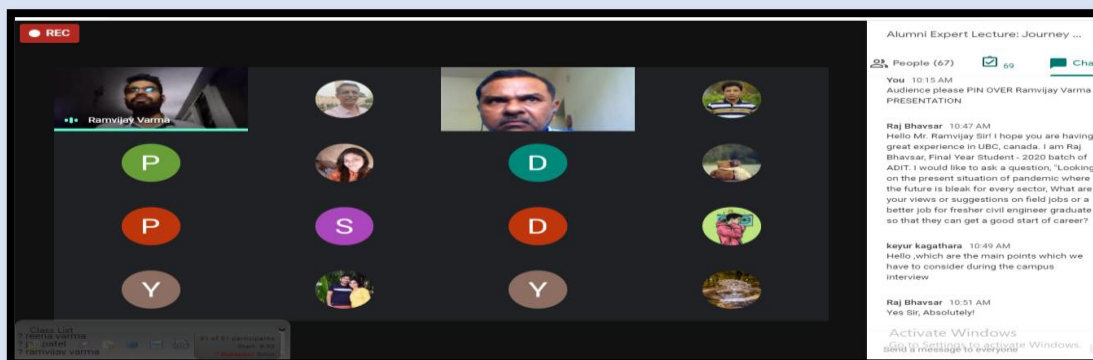
**“Indoor Air Quality” lecture by Prof. Drashti Bhatt on 09/06/2020**



**“Condition Assessment & Structural Health Monitoring” lecture by Prof. Kumarpal Trivedi on 10/06/2020**

### ALUMNI WEBINAR

Sr No	Date	Title	Faculty coordinator
1	27 <sup>th</sup> June 2020	Journey of Civil Engineering From Classroom to Field by RAMVIJAY VARMA	Prof. Drashti Bhatt



**Alumni Expert Lecture by Ramvijay Varma on 27/06/2020**



## TECHNICAL WEBINARS

Sr No	Date	Title	Name of Speaker	Name of Industry	Faculty coordinator
1	11 <sup>th</sup> April 2020	Project Management Consultancy	Mr. Hitesh Vora	Vyom Consultants	Prof. Kumarpal Trivedi
2	11 <sup>th</sup> April 2020	Construction Technique	Mr. Hitesh Vora	Vyom Consultants	Prof. Kumarpal Trivedi
3	9 <sup>th</sup> May 2020	Risk Management in Construction Industry	Mr. Sanjay Sonie	Cushman & Wakefield	Dr. Rajiv Bhatt & Prof. Kumarpal Trivedi



**“Project Management Consultancy” lecture by Mr. Hitesh Vora on 11/04/2020**

The image is a promotional poster for a webinar. At the top, there are logos for CVM University, ADIT (A. D. Patel Institute of Technology), and Charotar Vidyapeeth. The main text reads: "There is no lockdown in knowledge sharing...". Below this, it says "WEBINAR SERIES" and "FOR DEGREE & DIPLOMA ENGINEERING STUDENTS AND FACULTY MEMBERS". The date and time are "09 MAY 2020 SATURDAY 4 PM - 5 PM". The topic is "RISK MANAGEMENT IN CONSTRUCTION" by "MR. SANJAY SONIE, Director, Project Management - Base Build Services, CUSHMAN & WAKEFIELD". It is organized by "THE INSTITUTION OF ENGINEERS (INDIA) STUDENT'S CHAPTER". At the bottom, it says "CIVIL ENGINEERING DEPARTMENT" and "A. D. PATEL INSTITUTE OF TECHNOLOGY, NEW VALLABH VIDYANAGAR". A registration link is provided: <https://forms.gle/6if1dFDirfev4Run9>. A small portrait of Mr. Sanjay Sonie is on the left.

**“Risk Management in Construction Industry” lecture by Mr. Sanjay Sonie on 09/05/2020**

## STUDENTS' ACHIEVEMENTS

1. Nisarg Desai (160010106008), Kirit Gambhava (160010106011), Bhavya Kripalani (160010106018), Raj Bhavsar (160010106039) did Internship on "Construction of Light Gauge Steel Frame Structure" At Sona College of Engineering, Salem, Tamil Nadu from 29<sup>th</sup> December to 11<sup>th</sup> January 2020.
2. Smit Modi (170010106020) and Amarjeet Rathi (170010106039) got 1<sup>st</sup> Rank in Mime at Amul Volcano 2020 on 15<sup>th</sup> Feb 2020.
3. Govind Singh Bhayal (170010106005) and Apurva Jadav (170010106012) got 2<sup>nd</sup> Rank in Skit at Amul Volcano on 15<sup>th</sup> Feb 2020.
4. Govind Singh Bhayal (170010106005) and Apurva Jadav (170010106012) participated in Street Play at Amul Volcano on 16<sup>th</sup> Feb 2020.
5. Yash Sutaria (190013106013) volunteered in 'Entrepreneurship Development' by Department of Science & Technology from 17<sup>th</sup> Feb – 14<sup>th</sup> March 2020.
6. Hemang Dave (170010106009) won silver medal in Shotput throw (Men) at CVM Athletics Championship held at Shastri Maidan, V.V.Nagar on 18<sup>th</sup> and 19<sup>th</sup> Feb 2020.
7. Hemang Dave (170010106009), Sardar Wali (170010106055), Bhavik Thanki (180013106024) & Rajan Tank (180013106023) participated in Ultratech Sparkling Star Presentation Competition at Charusat University on 26<sup>th</sup> Feb 2020.
8. Hemang Dave (170010106009) got 1<sup>st</sup> rank in Essay Competition at ADIT on 28<sup>th</sup> Feb 2020.
9. Dhyye Patel (180010106025) won 2<sup>nd</sup> prize in brotherhood cup at Juggernaut Bakrol on 1<sup>st</sup> – 2<sup>nd</sup> March 2020.
10. Viraj Anam (170010106002), Jeet Chande (170010106006) & Hemang Dave (170010106009) got 3<sup>rd</sup> Rank in Poster Competition by Civil Engineering Department on 14<sup>th</sup> March 2020.

## PHOTO GALLERY



**National Academy of Indian Railways  
Vadodara Visit for 3<sup>rd</sup> Year Students  
(Date: - 15<sup>th</sup> February 2020)**

Visit at National academy of Indian Railways, Vadodara was carried out in which students were able to understand the practical knowledge about rails, sleepers, tracks and working of engines on rails tracks.



**Hall Construction Site Visit at Ayurvedic Herbal Garden for 3<sup>rd</sup> year Students (Date: - 17<sup>th</sup> February 2020)**

Visit of Hall Construction site at Ayurvedic college herbal garden was carried out in which students were able to understand the practical knowledge of columns, reinforcement bars, stirrups, and also knowledge of different size of reinforcement bars in different type of structure.

**Sukirtan Flora Site Visit for 3<sup>rd</sup> Year Students (Date: - 17<sup>th</sup> February 2020)**

Visit of Sukirtan Flora site Visit at ADIT Campus was carried out in which students were able to know about how to construct column on field, and also practical knowledge about beam.



**Structure Site Visit at Krishna Towers for 4<sup>th</sup> Year Students (Date: - 24<sup>th</sup> January 2020)**

Visit of Construction Site at Krishna Tower Anand was carried out in which students were able to understand the site constraints while performing the retrofitting work of the structural components such as column, column jacketing method & selection of suitable repair material, they also visited sales office of reputed supplier of repair material products.

Nisarg Desai (160010106008), Kirit Gambhava (160010106011), Bhavya Kripalani (160010106018), Raj Bhavsar (160010106039) did Internship on "Construction of Light Gauge Steel Frame Structure" At Sona College of Engineering, Salem, Tamil Nadu from 29<sup>th</sup> December to 11<sup>th</sup> January 2020 under SSIP Scheme Project.



Hemang Dave (170010106009) won silver medal in Shotput throw (Men) at CVM Athletics Championship held at Shastri Maidan, V.V.Nagar on 18<sup>th</sup> and 19<sup>th</sup> Feb 2020.



Dhyey Patel (180010106025) won 2<sup>nd</sup> prize in brotherhood cup at Juggernaut Bakrol on 1<sup>st</sup> - 2<sup>nd</sup> March 2020.



Govind Singh Bhayal and Apurva Jadav got 2<sup>nd</sup> Rank in Skit at Amul Volcano on 15<sup>th</sup> Feb 2020.



Hemang Dave, Sardar Wali, Bhavik Thanki & Rajan Tank participated in Ultratech Sparkling Star Presentation Competition at Charusat University on 26<sup>th</sup> Feb 2020.

-: End of Newsletter :-