



JUL-DEC | VOL 5 ISSUE 02

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News of Civil



Civil Engineering Department

Vishwakarma Government Engineering College
Chandkheda, Ahmedabad- 382424

NBA Accredited Vide File No. 20-43-2010



Vgec Civil



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Vision

- To provide a dynamic learning platform in the area of Civil Engineering with global perspectives, to make the students socially responsible and technically competent for innovation and entrepreneurship.

Mission

- To develop well-equipped modern laboratories and infrastructure for conducive teaching learning environment.
- To promote innovative education system, research and consultancy work for industrial and societal needs.
- To enhance ethically strong professional and entrepreneurship skills to manage turnkey projects.
- To inculcate the value system in the students to provide socially responsible and eco-friendly solutions in the field of construction industry.

PEOs

- The graduates shall be able to apply technical knowledge and skill for solving real-world Civil Engineering problems.
- The graduates shall be able to engage themselves to achieve expertise in analysis and design of structures by modern Civil Engineering tools and techniques.
- The graduates shall become responsible technocrats to deliver environmental friendly sustainable solutions.
- The graduates shall become capable to demonstrate the best Civil Engineering practices through adaptations to ethics and bye-laws.
- The graduates shall be able to pursue their career as professional entrepreneur in the field of Civil Engineering.

PSOs

- Educating students with fundamental and technical knowledge for actively apply to solve day-to-day societal problems related to the field of civil engineering.
- Motivate to engage them for achieving expertise in design and analysis of structures by modern civil engineering tools.
- Cultivate skills for continuous learning to achieve functionally efficient, cost effective and safe solutions of modern infrastructure development.
- Inculcate students to develop professional skills, abilities and attitude for wage employment and/or to become entrepreneur.
- Inspiring Students to become ethically responsible technocrats to deliver environmental friendly and sustainable solutions.

Dear students,

It is a great pleasure to welcome you at the beginning of the new semester. These are all the formative years for all the students. A physical building in the Civil Engineering sense is said to be strong if its foundations are sound. If the students build a strong foundation during their formative years they will be successful professionals and good citizens of the country. Students now have exposure to the industry at the end of their 6th Semester and during the entire 8th Semester, when they go for internship. The on-campus placements of Civil Engineering students have been very good for this academic session. I congratulate everyone for their efforts and teamwork and wish them "Best of Luck" for their future!



Dr. Navneet P. Singh

Faculty Participation

- **Prof. Upendra R. Singh** has completed an online MOOC course on "Accreditation of Undergraduate Engineering Programme" from 26th July 2022 to 27th Sept 2022 with a consolidated score of 82%.
- **Prof. Upendra R. Singh** has completed an online MOOC course on "Academic and Research Report Writing" from 26th July, 2022 to 27th Sept 2021 with a consolidated score of 83%.
- **Prof. Bhagyesh C. Contractor** has completed 12 week online NPTEL MOOC Course on "Availability and Management of Ground Water Resources" organized by IIT during 25th July 2022 to 14th October 2022, Kharagpur.
- **Prof. Bhagyesh C. Contractor** has attended one week short term training program on "MATLAB for all" at NITTTR, Bhopal during 19th Dec 2022 to 23rd Dec 2022.

Faculty Achievement

- **Prof. Ketan L. Timani** has published a paper titled "Influence of Cohesion on California Bearing Ratio of Clay-Gravel Mixtures" International Journal of Sediment Research (Elsevier Publication).
- Link:
<https://doi.org/10.1016/j.ijsrc.2022.12.005>.



The National Board of Accreditation has renewed the accreditation status of the Civil Engineering Department of Vishwakarma Government Engineering College, Chandkheda, Ahmedabad for the next two years, i.e. from May 2022 to May 2025. Earlier, the department was awarded accreditation for three years (May 2019- May 2022).

This reaccreditation was the result of day-to-day efforts put up by both, students and professors. Everybody in the department felt delighted upon this event as it was the result of all the efforts they have put in.

The purpose of the accreditation by the NBA is to promote and recognize excellence in technical education in colleges and universities - at both the undergraduate and postgraduate levels. The benefits of NBA Accreditation to the Students -

- The grant of Accreditation pushes the institute to maintain its high standards, building confidence among the students and enhancing their prowess.
- It helps the institute to secure the necessary funds required for projects and research works.
- It helps to improve the performance of students.
- Students from NBA Accredited institutes get an advantage in the job market.
- Students also get a platform for opting for varied International Courses and Events.



Engineers' Day Celebration

Engineers Day dated 15th September 2022 was Celebrated by the Civil Engineering Department with the students of Sem 5 and Sem 7 through a seminar and workshop on 'Advances in Concrete Mix Design – Theory and Demonstration'.

A seminar and a workshop were the two parts into which the whole celebration was divided. Our Chief guests were Mr Mayur Bhandarkar Territory Manager - Technical Customer Solution at UltraTech Cement Ltd. and Mr Nitin Chaudhary, Regional Head - Technical Customer Solution at UltraTech Cement Ltd. The seminar started with a lightning lamp and a prayer. A presentation on the life and events of M. Vishweshwariya was presented and followed by a short video on his life. Then the session was handed over to the experts who discussed all the things on "Advances in Concrete Mix Design". The seminar concluded with a vote of thanks by the Faculty to our Expert Guests.

After Seminar there was a lunch arranged at the Civil Department for all faculties, experts and students. After the lunch session A workshop on the Importance of Admixtures, their Demonstration and Testing was conducted.



Unpacking Your Future: Welcome to Civil Engineering Department

The orientation program of the Civil Engineering Department for the upcoming batch was organized on 10th September 2022, in N107, Civil Engineering Department. The event started with a welcome speech given by Dr Navneet P. Singh (HOD, CED). It was followed by presentations, which made the students aware of the various clubs and chapters of our college like NSS, NCC, etc. They were also made aware of the laboratory facilities available in our department.

After that, the faculties of the Civil Engineering and Applied Mechanics Departments shared their views, which provided guidance and motivation for the students. After that, students got to interact with the rankers of our department, while they shared their experiences.

This was followed by alumni interactions in which they shared their views regarding the college and how it helped them in their professional careers and life, overall, which highly motivated the students. Three alumni of our department participated in this event. They were:

- Krunal Prajapati, who is from the 2018 pass-out batch. He is currently working as an assistant engineer in the Road and Building Department, Government of Gujarat. Earlier he worked as a sub-inspector at the Ahmedabad Municipal Corporation.
- Ekta Mathasuriya, who is from the 2019 pass-out batch. She is working as a deputy executive engineer in the Road and Building Department, Government of Gujarat.
- Kalpit Patel is a senior faculty member at Holistic Academy and has taught subjects like surveying, building construction, structural design, etc.

This interaction was followed by the Vote of Thanks speech which was given by Dr Ketan L. Timani (HoD, AMD). After this, a college tour was organised for the students in which they got to see the infrastructural facilities of our college.



Workshop on Building Information and Modelling

Day Workshop on “Building Information and Modelling” was organized by Civil Engineering Department and Applied Mechanics Department which was conducted by Mr Deepak Singhal (CADD Centre, Ahmedabad) and coordinated by Prof. P. B. Mistry and Prof. A. N. Dave. This Workshop mainly focused on learning the software Auto CAD and Revit Structures for the planning, analysis, and design of different 1D, 2D & 3D structures. 78 students remained present.



Technical Visit at Green Building– SHAPATH V

The Civil Engineering Department has organized an Industrial Visit for 3rd-semester students on 31st Dec 2022 to IGBC-certified green building, Shapath-V situated on S.G.Highway, Ahmedabad. A total of 50 students attended the site. The Visit was facilitated by Prof. Navneet P Singh, Prof. Khushboo M Parmar & Prof Upendra R Singh. An Overview of the building was given with a brief on Green Building and its unique features. It has a height of 70m with 19 floors and is also the first building in the state to get a LEED GOLD rating from Indian Green Building Council. The Other features are its own Green Sewage Treatment Plant, and Zero CFC Emission Refrigerators, in the user base of HVS systems which reduce 20 to 30% of energy, and 40 to 50 % of water usage. After the visit to Green Building, the students also visited the Sewage Treatment Plant, Chiller Plant Boiler Room, Rainwater Harvesting, and Overhead Solar Water Heater. A brief of all these sites was given to the students. The students received knowledge and information on the topics mentioned earlier.



Vocational Training Program – Manufacturing Process of Ceramic Tiles

This training program was organized by CSIR - Central Glass and Ceramic Institute Naroda Centre, Ahmedabad. It was a 5- Days workshop from 10th October to 14th October 2022. The total duration of the workshop was 40 hours.

The training program was sponsored by the GKS.

Day-wise highlights of the program are given as follows :

Day 1 :

- Welcome address and inauguration of the program took place.
- Two lectures were taken on the introduction to dust-pressed ceramic tiles and Various raw materials used in the production of ceramic tiles bodies. After that, the general measurement system for tiles was demonstrated.

Day 2 :

- Day 2 included a lecture on the body composition of different types of tiles and the tile manufacturing process flow chart.
- Demonstrations on bath making, weighing of raw materials, moisture correction, battery charging, longing for wall tiles and ball making for tiles, grinding etc.
- After that, the demonstration continued with a lecture based on different equipment used in slip house, ball milling process and its efficiency
- Lastly, a presentation on granule preparation and a lecture on the working of a spray dryer was conducted.

Day 3:

- Lectures and exhibitions were organized on the topics of unloading cheques prior to unloading of body, litre weight residue fluidity, pressing of tiles and process control parameters
- Demonstrations of pressing tiles specimens, small die, biscuit firing in roller kiln.

- Lecture on the different exhibition of techniques.
- Assistance for employment.
- Evaluation and exam took place.
- astly, the workshop concluded with the concluding section feedback and certificate distribution.

Day 4:

- Lecture on the glaze and englobe raw materials for tiles, their functions and applications.
- Lecture on the effects of heat on ceramic bodies.
- Lecture on different types of kilns used for tile manufacturing.
- Practical demos on the process of the glost firing of roller kilns.
- Expert talk lecture on water utilization in tile manufacturing.

Day 5:

- Lecture and demonstration of firing schedule.



Har Ghar Tiranga Celebration





Vedant Dev

1st Rank

SPI: 9.39

Sem-02

Hardi Bhatt

1st Rank

SPI: 9.04

Sem-04



Sujal Chokshi

2nd Rank

SPI: 8.94

Sem-02



Rajviba Zala

2nd Rank

SPI: 8.52

Sem-04





Bhaveshpuri Bava
Prism Johnson Limited
Sales Executive



Manashree Shelat
Reliance Industries Limited
Graduate Engineer Trainee
(GET)



Binal Vora
Larsen and Toubro
Graduate Engineer Trainee
(GET)



Kavyaben Prajapati
Larsen and Toubro
Graduate Engineer Trainee
(GET)



Krishna Solanki
Larsen and Toubro
Graduate Engineer Trainee
(GET)



Yashveersinh Tank
Larsen and Toubro
Graduate Engineer Trainee
(GET)



Anjesh Gurjar
Larsen and Toubro
Graduate Engineer Trainee
(GET)



Harsh Shah
Reliance Industries Limited
Graduate Engineer
Trainee(GET)



Pruthvikumar Patel
Prism Johnson Limited
Sales Executive



Kunal Shah
Adani Group
Graduate Engineer Trainee
(GET)



Sakar Patel
Adani Group
Graduate engineer trainee
(GET)



Dikshansh Singh
Larsen and Toubro
Graduate Engineer Trainee
(GET)



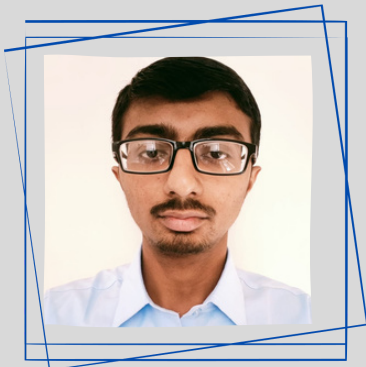
Trushik Malviya
Reliance Industries Limited
Graduate Engineer Trainee
(GET)



Jaynam Bhavsar
Hindustan Infrastructure
Graduate Engineer Trainee
(GET)



Fenil Patel
Adani Group
Graduate Engineer Trainee
(GET)



Vivek Makvana
Hindustan Infrastructure
Graduate Engineer Trainee
(GET)



Aman Bharadwaj
Hindustan Infrastructure
Graduate Engineer Trainee
(GET)



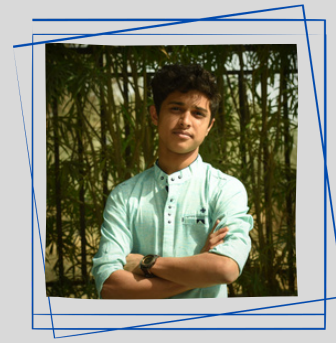
Pavan Panchal
Junomoneta Finsol Pvt.Ltd
Research Associate -
Technical



Snehkumar Rathod
Adani Group
Graduate engineer trainee
(GET)



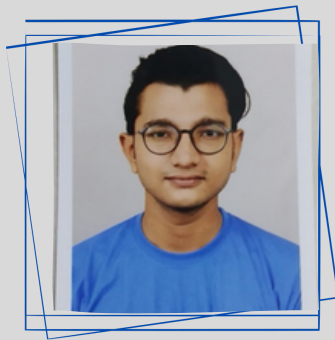
Priyank Gohel
Reliance Industries Limited
Graduate Engineer Trainee
(GET)



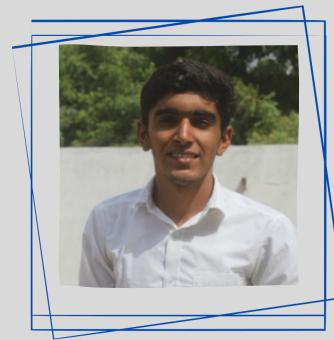
Maharshi Rathod
Adani Group
Graduate Engineer Trainee
(GET)



Het Patel
Reliance Industries Limited
Graduate Engineer Trainee
(GET)



Mihir Lakhatariya
Reliance Industries Limited
Graduate Engineer Trainee
(GET)



Suresh Malvi
Hindustan Infrastructure
Graduate Engineer Trainee
(GET)



Hardikkumar Paraliya
Junomoneta Finsol Pvt. Ltd
Research Associate –
Technical



Jaykumar Patel
Junomoneta Finsol Pvt.Ltd
Research Associate –
Technical



Mayank Shah
Adani Group
Graduate Engineer Trainee
(GET)

The Civil Engineering Department heartily welcomes Dr Dipak J. Varia. He is highly experienced and well- knowledgeable, having an experience of 25 years. He has previously worked with L.E. College, Morbi, Government Engineering College, Palanpur, and Government Engineering College, Patan. He has joined us as an Assistant Professor in the Applied Mechanics Department. We hope with your knowledge, energy and dedication, our department will achieve great excellence in all aspects and may we reach new heights of glory under your guidance and leadership.



**Dr. Dipak J.
Varia**

“Individual commitment to a group effort—that is what makes a teamwork, a company work, a society work, a civilization work.”

Kabir Vachan Vistar : Book by Prof. Shailesh Trivedi

Prof Shailesh A Trivedi has written a Book Titled "Kabir Vachan Vistar" and published by Navbharat Sahitya Mandir, Gandhi Road, Ahmedabad in Oct 2022. This Gujarati Book is about commentaries on 121 poetical couplets (known as Dohas or Sakhis) of the Indian Bhakti Movement Saint Kabir from Kashi.

He has not only provided poetical couplets, but he also presented them in a way that is easy to understand and relate to common life. One of the meaningful quotes (Doha) is represented here with the meaning:

गुरु कुम्हार शिष्य कुंभ गढी गढी काढै खोट ।
हाथ सहार दै, बाहर मारे चौट ॥

ગુરુ કુંભાર છે અને શિષ્ય કુંભ છે. તેને ઘડી ઘડીને તેની ખોટ કાઢે છે.
અંદરથી હાથથી સહારો આપી બહારથી તેને ટપાકા મારે છે.

A Deep Thought on Saint Kabirdas Dohas and Sakhis



By: Shailesh A Trivedi

The Football team of the Civil Engineering Department were declared as Winners in VISHWA CUP-2022.



Jeel Shah from Civil Engineering Department was rewarded a GICEA Gold Medal for year 2022



Saloni Modi from Civil Engineering Department was rewarded a GICEA Gold Medal for year 2022



Mayursinh Jadeja from Sem 5 Civil Engineering Department has created World Record for 5000 Rajput Boys doing Sword Dance all together.



A Team of Civil Engineering Department Harsh Shah, Akshar Prajapati, and Vidhi Panchal were declared 1st Runners' Up at GPERI for GTU TECH-FEST



Dipak Chaudhary of Sem: 7 is selected in AIU National Game in cross country (10km).



Aayushi Anand Shah of Sem 01 has inked her thoughts in Two Books.

Congratulations to Aayushi Anad Shah for publishing two books on poems and quotes. Best wishes for her future endeavor.

A COLLECTION OF FREELANCE POEMS & QUOTES



By: Aayushi Anand Shah

Extracts from the Book

The Scribbles of Entangled Brains

Countless were the thoughts I experienced,
Beautiful or may not be,
It's how I garland them,
The Scribbles of Entangled Brains!!!

This is when I created a new,
Newness swirled in the breeze,
Uniqueness a new day's work,
The Scribbles of Entangled Brains!!!

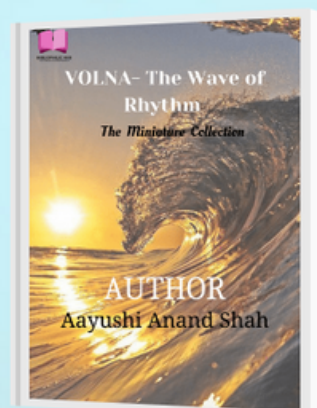
Numerous the words beauty,
It is the blossoming of Vocab,
This is when a new page gifted,
To the ink a piece, small or big,
The Scribbles of Entangled Brains!!!

Extracts from the Book

Projections the Ortho

With a 3D object on paper,
Visualized a roundabout of it,
From the top or bottom,
Sideways either Left or Right,
Slowly and gradually you worked in quadrants,
Small fractions of the views broke into simple geometry,
Geometrical and so basic,
But, trick is to crack,
Hidden and Centre are requisite lines,
Projection lines for measurements,
There after some sketch 3D turns 2D,
That's Why It's "Projections the Ortho"!!!!

THE MINIATURE COLLECTION A FREELANCE COLLECTION OF POEMS



By: Aayushi Anand Shah



"Photography"
Pranjal Vinzuda
Sem-01



"Pencil Shading Art"
Pooja Gohel
Sem-05



"Digital Art"
Karansinh Rathod
Sem-01



"Photography"
Dipesh Bharadwa
Sem-05



"Water Color Art"
Shikha Savaliya
Sem-01



"Pencil Color Art"
Deep Mori
Sem-01



"Photography"
Dev Parmar
Sem-05

What VGEC gave me by Aniket Choudhary ?

I, Choudhary Aniket Aman was a student of Vishwakarma Government Engineering College, 2014-2018 Civil Engineering Batch. VGEC. These college years were the most amazing years of my life. This college lives up to everything it offers. The college has a well-advanced infrastructure with a computer lab, a well-stocked library and sports facilities; it also has a well-managed, clean, sanitary, spacious canteen. The teachers are nice, supportive, and friendly. I would like to thank all the faculties of the Civil Engineering Department for their sincere efforts of bringing out the best in us and for all the motivation and encouragement they always have given us. The teaching methodology not only helped me dampen the fear of learning but I also started enjoying learning. This attitude pushed me further to take a master's degree in Civil Engineering. Now looking back, I'm truly grateful to the institute for the quality of care and nurturing I have received which eventually has helped me to reach where I'm today.

Some of the great memories of friendship, brotherhood, and immense flow of wisdom from the greatest minds of the country in the rustic beautiful campus of V.G.E.C. is something that I can never forget.

I will recommend this institute to many young aspiring minds who wish to learn engineering discipline through the experience of experts thereby refining them and taking them to new heights.

My Journey at VGEC by Krutagn Patel

First of all, I would like to thank all my professors and supporting staff for making it happen. Being from a small town and a Gujarati-medium student, it seemed very hard at first, but the supportive nature of the faculties at VGEC made it look very easy and comfortable. Apart from my engineering degree, college has taught me amazing life lessons and helped me develop a strong and perfect life aspect. After graduating from VGEC, I did a master's in structural engineering. As of now, I am working at Maruti Consultants as a senior structural engineer. I will always be thankful to VGEC for making me capable of what I am today. (2018 Passout)



**Aniket
Choudhary**



**Krutagn
Patel**



My Unique and Fulfilling Experience at VGEC by Tushar Rana

Being a student of VGEC was a unique and fulfilling experience. I had the opportunity to participate in the SSIP scheme, the Student Startup Innovation Program, which provided me with financial support for my project. Throughout my time at college, I found the professors to be incredibly knowledgeable and helpful. They were always willing to answer questions and provide guidance, which was incredibly valuable to me as I navigated my coursework and project. The facilities available at my college were also great. I had access to labs and equipment that allowed me to conduct my research and complete my project to the best of my ability. Overall, I feel that my college gave me the resources and support I needed to succeed both academically and personally.

I would recommend my college to any students looking to further their education and gain hands-on experience in their field of study.



**Tushar
Rana**

Inked the Verses

The Scribbles of Environment

Smiling the sky with infinity,
Reflects the ocean,
Sunflowers swaying,
The breeze mild mild,
Cool are the mountains,
Curved their ways,
With the shore,
Having a smooth weather,
The beautiful evening hues,
Clouds in the heavens,
Just giving hugs to high mountains,
Rains, summers, or winters,
There you get to know,
The amaze of nature,
The Sparkles of Light Are Lighting Lives,
The Scribbles of Environment Smiles and Smiles

શબ્દ બારી

મારા મૂંગા રહેવાની રીત કેટલી સારી છે,
મારા ઘરની સામે પ્રિયતમાના ઘરની બારી છે.
ફૂલડાંની ફોરમ મુક્તી કુંદન કેટલી પ્રેમાળી છે,
જીવન ભર આ ફૂલને પાણી પાવાની જવાબદારી મારી છે.
કાવા-દાવા ના કપટ વાળી છે આ દુનિયા,
તો પણ આ જીંદગી તમારી છે.
પ્રેમની નજરે જોશો તો 'મુક- ઈશ ' દેખાશે તમને,
કારણ મારી કવિતા જ મારી અદ્ભૂત બારી છે..

પ્રોફેસર. મુકેશ વી ચૌહાણ



Aayushi Anand Shah Sem-01



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