

कृतित्व

ISSUE V (JULY-DECEMBER-2025)



"अर्धवार्षिक लेखा-जोखा"
सिविल अभियांत्रिकी विभाग



Dr. T. H Vyas

H.O.D., Civil Engineering Department

Dear Students and faculty members,
It is with great honour and a deep sense of responsibility that I have joined Government Engineering College, Gandhinagar as a Class-I Associate Professor and have taken up the role of Head of the Department, following my transfer from L.D. College of Engineering.

I am sincerely grateful to the Institute for entrusting me with this important responsibility. GEC Gandhinagar has earned a strong reputation for academic discipline, dedicated faculty, and commitment to student development. I consider it a privilege to become part of this esteemed institution.

My academic journey has reinforced in me the belief that quality education is built on strong fundamentals, ethical practices, innovation, and meaningful engagement with industry and society. As Head of the Department, my focus will be on strengthening teaching-learning processes, promoting research and professional development, encouraging industry interaction, and creating an environment where students are motivated to achieve both academic excellence and personal growth.

I look forward to working collaboratively with my colleagues, staff members, and students to further enhance the academic standards of the department. Together, I am confident that we can achieve new milestones and contribute positively to the vision and mission of Government Engineering College, Gandhinagar.

I once again express my gratitude for this opportunity and seek the cooperation and support of all in this new responsibility.

Warmest regards,
Prof. (Dr.) T.H.Vyas



Dr. N.K. Arora

H.O.D., Applied Mechanic Department

Dear Students and faculty members,
Our department has consistently upheld strong academic standards and a culture of discipline, dedication, and integrity. Building upon this strong foundation, my vision is to further strengthen the teaching-learning process, encourage innovation and research, enhance industry interaction, and promote the holistic development of our students. In today's rapidly evolving engineering environment, it is essential that we equip our students not only with sound technical knowledge but also with professional skills, ethical values, and industry readiness.

A key focus area of our department is student career development through effective training and placement activities. I am pleased to share that we have initiated and strengthened on-campus placement drives, inviting reputed organizations to interact with our students and provide them with employment opportunities. These efforts aim to bridge the gap between academic learning and industry expectations, preparing our graduates for successful professional careers.

I strongly believe that progress is best achieved through teamwork. I look forward to working closely with faculty members, staff, industry partners, and students to create an environment that nurtures academic excellence, employability, creativity, and social responsibility. Together, we shall continue to enhance the reputation of our department as a centre of quality education and professional competence.

Warmest regards,
Prof. (Dr.) N.K.Arora

INDEX

The Institute

Faculty Details

Departmental Activities

Faculty Achievements

Faculty Training

Student Achievements

Creative Corner

THE INSTITUTE



Vision

- To be a premier engineering institution, imparting quality education for innovative solutions relevant to society and the environment.

Mission

- To develop human potential to its fullest extent so that intellectual and innovative engineers can emerge in a wide range of professions.
- To advance knowledge and educate students in engineering and other areas of scholarship that will best serve the nation and the world in future.
- To produce quality engineers, entrepreneurs and leaders to meet the present and future needs of society as well as environment.

FACULTY DETAILS

कृत्स्न



Dr. Shweta P. Dave
Principal

Ph.D. (Soil Mechanics)
30 Years



Dr. N.K. Arora(HOD-AMD)

Ph.D. (Structural
Engineering)
30 Years
Professor)

Prof.(Dr). Toral H Vyas (HOD-CED)

Ph.D (Civil)
16 Years
(Asso.Professor)



Prof.(Dr.) Sandip C Rathod

Ph.D (Civil)
21 Years
(Asso.Professor)



Prof.(Dr.) C.N. Patel

Ph.D (Civil)

**17 Years
(Asso.Professor)**

Prof.(Dr.) G.M. Savaliya

Ph.D. (Civil)

16 Years

(Asso.Professor)



Prof. Harshal Tuvar

**M.E.(Geotechnical
Engineering)**

**12 Years
(Assistant Professor)**

Prof. Shilpa Parmar

**M.E. (Water
Resources
Engineering)**

**15 Years
(Assistant .Professor)**



DEPARTMENTAL ACTIVITIES

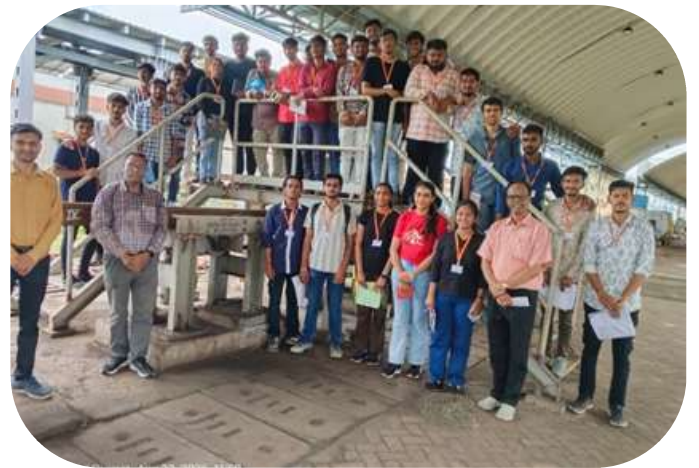
- **Construction Site Visit**

The Civil Engineering Department organized a one-day construction site visit for 3rd semester students on 2nd August 2025 as part of the course curriculum for the subject Building Construction Technology. The students visited the Happiest Ananta (AB Group Developers) and Rudra Titanium Square project sites near K-7 Circle, Gandhinagar. The visit was conducted with 65 students under the guidance of faculty members Prof. Ghanshyam Savaliya and Prof. Shilpa Parmar.



- **Railway Engineering Workshop & DFC Control room visit**

The Civil Engineering Department organized a one-day visit to the Railway Engineering Workshop at Kaligam, Sabarmati, and the DFC Control Room on 22nd August 2025 as part of the course curriculum for the subject Railway Engineering for 7th semester students. The visit provided students with valuable practical exposure to industry-relevant railway engineering practices and infrastructure supporting smart cities. The visit was accompanied by Prof. Sandip Rathod and Prof. Chanshyam Savaliya, with participation from 32 students.



- **Panam and Kadana dam visit**

The Civil Engineering Department organized a one-day technical visit to Panam Dam and Kadana Dam, including the associated hydropower plant, for 7th semester students on 29th August, 2025, as part of the course curriculum for the subject Irrigation Engineering. The visit provided students with practical exposure to irrigation systems connected with dams and highlighted the importance of hydraulic design in ensuring efficient water supply for irrigation. The visit was arranged and guided by Prof. Shilpa Parmar, with participation from 32 students.



• **BISAG-G Visit**

BISAG-G Visit had been organized by Civil Engineering students of 5th semester for their course curriculum of Remote Sensing subject. The visit was arranged for two days with a 50 students per day with Faculty members Prof. Toral Vyas, Prof. Shilpa Parmar and Prof. Ghanshyam Savaliya on 20nd and 22nd August, 2025.



- **Construction Site Visit**

The Civil Engineering Department organized a one-day construction site visit for 7th semester students on 6th August 2025 as part of the course curriculum for the subject Engineering Economics, Estimation and Costing. The students visited the Happiest Ananta AB Group Developers and Rudra Titanium Square project sites near K-7 Circle, Gandhinagar. The visit was conducted with 32 students under the guidance of faculty members Prof. Sandip Rathod and Prof. Ghanshyam Savaliya.



• **PDEU “InnovationSetu” Visit**

The Civil Engineering Department organized a one-day visit to the PDEU Innovation Centre for 5th semester students as a part of their Design Engineering course, providing them with an opportunity to learn and experience startup projects and their journeys toward innovation. The students were invited to PDEU’s flagship event, InnovationSetu '25, where they celebrated achievements and explored future possibilities in the field of innovation and entrepreneurship.



- **Expert lecture on 'Soil Investigation and Future Opportunities in Higher Studies and Entrepreneurship**

The Applied Mechanics Department organized an expert lecture on 'Soil Investigation and Future Opportunities in Higher Studies and Entrepreneurship' for 3rd and 5th semester Civil Engineering students on 21st August 2025. The session was delivered by Prof. (Dr.) Chandresh H. Solanki, Professor in the Civil Engineering Department at SVNIT, Surat. He shared valuable knowledge with the students, providing both technical insights into soil investigation practices and guidance on career pathways in research, higher education, and entrepreneurship.



• Expert Talk On “Planning Your Professional Career”

An Expert Talk organized by the Civil Engineering Department focusing on the theme “Planning Your Professional Career”. The event was scheduled on 1st September 2025 was aimed at guiding students in shaping their academic and professional pathways. It highlights the participation of a distinguished retired professor Dr. P.H.Shah as the speaker, along with the students and faculty coordinators overseeing the program.



• **Expert lecture on ‘Concrete Mix Design’**

The Applied Mechanics Department organized an expert lecture on ‘Concrete Mix Design’ in collaboration with LD College of Engineering, Ahmedabad, for 5th semester Civil Engineering students on 26th September 2025. The session was delivered by Mr. Jay Shah, Territory Manager, UltraTech Cement Limited, Ahmedabad, to enhance students’ understanding of mix proportioning, strength parameters, durability requirements, and the field application of concrete in modern construction practices.



- **Practicals at LDCE,Ahmedabad**

In view of the ongoing laboratory development process in the department, experiments for the Concrete Technology course were conducted by 3rd and 5th semester students at LDCE, Ahmedabad, under the guidance of Prof. N. K. Arora and Prof. C. N. Patel.



RETIREMENT FUNCTION -Prof. B.J .Panchal

A retirement function was organized in honour of Prof. Bhupendra J. Panchal of the Applied Mechanics Department on 30th June, 2025. The occasion was marked by a felicitation with a bouquet and a tree plantation in his name as a symbol of respect and gratitude. Throughout his distinguished career, he served the department with unwavering dedication, making significant contributions to teaching, academic development, and the mentorship of students.



PLACEMENT DETAILS

It is a proud moment for the Civil Engineering Department that the on-campus placement drive has been initiated for the first time in this semester for the 2026 pass-out batch. Through the dedicated efforts of Prof. Sandip Rathod, the first company, Goyal & Co. Construction, conducted a placement drive in our department and selected four students. Subsequently, other reputed companies such as PSP Projects, Hitech, Shrihari Construction, L&T, Adani, etc., also conducted placement drives and selected a total of twelve students for employment.



FESTIVE CORNER

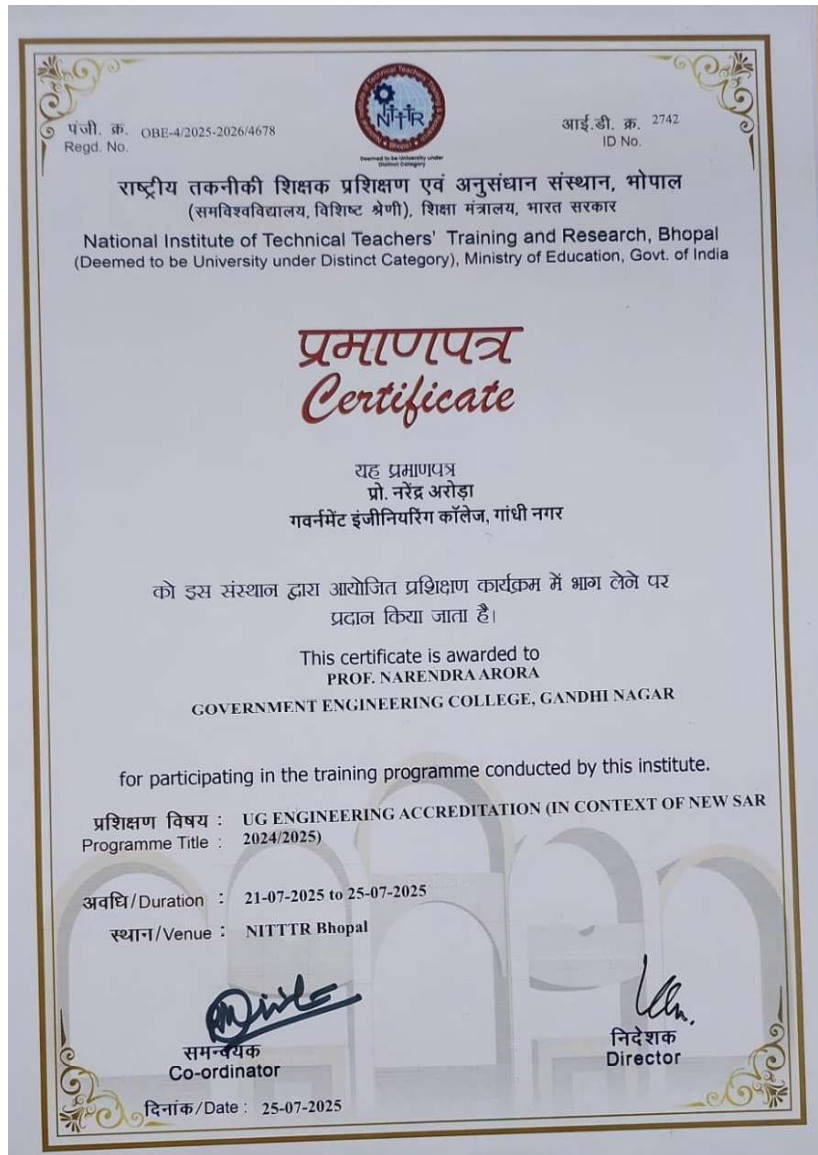
• Teachers' Day celebration

Students of Civil Engineering Department organized and celebrated Teachers' Day with great enthusiasm to honor the dedication, guidance, and invaluable contribution of its faculty members in shaping future engineers on 4th September 2025. The program included student-led activities, felicitation of teachers and thoughtful expressions of gratitude, creating a warm and respectful atmosphere. The event highlighted the vital role of teachers not only in academic development but also in instilling professional ethics, discipline, and lifelong learning among students. The celebration concluded with a renewed sense of appreciation, strengthening the bond between students and faculty within the department.



FACULTY TRAINING

Prof. (Dr.) Narendra K. Arora attended a five-day training programme conducted by the National Institute of Technical Teachers' Training and Research (NITTTR), Bhopal, from 21 July 2025 to 25 July 2025.



STUDENT ACHIEVEMENTS & PARTICIPATION

कृतिव

Our 5th Semester Civil Engineering students—Patel Mahi, Shakya Rupal, and Jayswal Gayatri—successfully participated in the NPTEL online course titled Reinforced Concrete Structures and appeared for the final examination and successfully passed the exam.



NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
PATEL MAHI KALPESHKUMAR
for successfully completing the course

Design of Reinforced Concrete Structures

with a consolidated score of **54** %

Online Assignments	21.19/25	Proctored Exam	33/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 199

Jul-Oct 2025
(12 week course)

Indian Institute of Technology Kharagpur

Skill India
शिक्षण-संसाधन-संस्थान

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

swayam



NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
PATEL MAHI KALPESHKUMAR
for successfully completing the course

Design of Steel Structures

with a consolidated score of **50** %

Online Assignments	20.31/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 121

Jul-Oct 2025
(12 week course)

Indian Institute of Technology Kharagpur

Skill India
शिक्षण-संसाधन-संस्थान

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

swayam



NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
RUPAL SHAKYA
for successfully completing the course

Design of Steel Structures

with a consolidated score of **48** %

Online Assignments	18.13/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 121

Jul-Oct 2025
(12 week course)

Indian Institute of Technology Kharagpur

Skill India
शिक्षण-संसाधन-संस्थान

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

swayam



NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
RUPAL SHAKYA
for successfully completing the course

Design of Reinforced Concrete Structures

with a consolidated score of **56** %

Online Assignments	19.85/25	Proctored Exam	36/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 199

Jul-Oct 2025
(12 week course)

Indian Institute of Technology Kharagpur

Skill India
शिक्षण-संसाधन-संस्थान

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

swayam



NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
GAYATRIBEN JAYSWAL
for successfully completing the course

Design of Reinforced Concrete Structures

with a consolidated score of **52** %

Online Assignments	19.53/25	Proctored Exam	32.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 199

Jul-Oct 2025
(12 week course)

Indian Institute of Technology Kharagpur

Skill India
शिक्षण-संसाधन-संस्थान

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

swayam

NPTEL 25CE12351256300167 To verify the certificate

No. of credits recommended

STUDENT ACHIEVEMENTS & PARTICIPATION

कृत्स्न

Our 5th semester Civil Engineering students Abhisek Rajput and Rao Meetrajsinh participated in Intercollege volleyball tournament and won at Zonal level organized by GTU.



PARTICIPATION

5thSemester students participated in hackathon organised by Indian Institute of Technology, Gandhinagar .There were 3 categories of marathon depending on the distance like 3km,6km and 9km.We all opted for 3Km marathon and marked a step forward towards health and fitness.



STUDENT ACHIEVEMENTS & PARTICIPATION

On 15th August 2025, the college motivated, encouraged, and appreciated meritorious students by awarding certificates. In the Civil Engineering Department, third-semester students Mahi Patel and Rupal Shakya (girls) secured first and second positions respectively in the GTU results of the third semester. They were honoured with Certificates of Appreciation on the occasion of Independence Day.



CREATIVE CORNER

Article by Prof. Harshal Tuvar ,Faculty of Applied Mechanics
Department

સ્વાતંત્ર્યદિન વિશેષાંક

સ્વયંને ઓળખ્યા વિના કર્તવ્યોનું યોગ્ય પાલન અશક્ય



હર્ષલબેન તુવાર

ઘણા લોકો પોતાની ઓળખ બતાવીને કર્તવ્યોનું અયોગ્ય પાલન કરાવડાવે છે.

આવું વાંચીએ ત્યારે બે વાત ધ્યાનમાં આવે છે...

૧) પાલન કરાવનારને સ્વયંની સાચી ઓળખનો અભાવ.

૨) કર્તવ્યનું પણ અયોગ્ય રીતે પાલન થવું શક્ય છે.

જો પ્રથમ મુદ્દાવાળો અભાવ દૂર થાય તો કર્તવ્યનું અયોગ્ય પાલન પણ આપોઆપ અટકી જાય.

તો શું આપણે પોતાને ઓળખીએ છીએ? મોટા ભાગે આપણે આપણી ઓળખ કેવી રીતે આપીએ? શું આપણે પોતાને એક માતા, પિતા કે બાળક તરીકે ઓળખાવીએ છીએ? કે કોઈ વિદ્યાર્થી, કોઈ ઓફિસર કે સાધુ સંત તરીકે ઓળખાવીએ છીએ? પોલિટીશિયન, સરકારી કર્મચારી કે સામાન્ય નાગરિક તરીકે? કે પછી ભગવાને બનાવેલા એવા શ્રેષ્ઠ જીવ તરીકે ઓળખાવીએ છીએ.

ખરેખર તો મહાન વ્યક્તિની ઓળખ તેમણે જીવનપર્યંત શું પ્રાપ્ત કર્યું તેનાથી છે અથવા તો જે કંઈ પ્રાપ્ત કરવાના પ્રયત્નો કર્યા તેનાથી છે. તો જ્યારે આપણે આપણી જાતને ઓળખવા બેસીએ ત્યારે એ જાણવું રહ્યું કે, આપણે શું પ્રાપ્ત કરવા નીકળ્યા છીએ. (૧) પોતાની સુખાકારી અને આનંદ પ્રાપ્તિ, (૨) પોતાના પરિવાર અને સંબંધીઓની સુખાકારી. કે પછી (૩) મહાન લોકોની જેમ અગણિત લોકો પ્રત્યે સંવેદનશીલ બનીને એમની સુખાકારી.

ટૂંકમાં આપણી ઓળખ આપણાં જીવનના ઉદ્દેશ્યથી છે. આ ઉદ્દેશ્ય થકી જ આપણે કરવાના કામોની ગુણવત્તા અથવા એનાથી આવનાર પરિણામોની ગુણવત્તા નક્કી થઈ જાય છે.

એક માતા જ્યારે દેશહિત અને સંસ્કૃતિસંવર્ધનના વિચાર સાથે બાળકનું પાલન પોષણ કરે છે ત્યારે શિવાજી જન્મે છે. બાકી માતા તરીકેનું કર્તવ્ય તો બધી જ માતાઓ નિભાવે જ છે. પણ તેની યોગ્યતા, ઉપયોગિતાની સીમા બંધાઈ જાય છે.

આપણે પોતાની જાતને કેટલા ઓળખ્યા છે એની ચકાસણી સતત કરતાં રહેવું આવશ્યક છે. તો જ આપણાં કર્તવ્યોના પાલનમાં આપણે યોગ્યતા પામી શકીશું. અને આ ઓળખને વિસ્તાર આપવા ક્યારેક ક્યારેક, સમયાંતરે પણ પોતાની જાતને કસોટીમાં મૂકતાં રહેવું પડશે. આવું સભાનપણે કરવાથી વિસ્તાર એટલે કે સ્વયંના વિકાસને એક ગતિ પણ આપી શકાય. એક નાનકડી વાર્તા જોઈએ...



એક દીકરી હતી, તેના ઘરે એક પાડો જન્મ્યો. આ પાડો જન્મ્યો ત્યારે આ દીકરી તેને ખભે લઈને ફેરવતી. પછી એક વડીલે તેને આમ રોજ કરવાનું કહ્યું. પાડાના રોજ વધતા જતા થોડા થોડા વજનમાં દીકરીને વાંધો ના આવતો, અને ખબરેય ના પડતી. ધીરે ધીરે દીકરીના સ્નાયુઓ એવા તો મજબૂત થઈ ગયા કે, કોઈ પહેલવાન પણ ના કરી શકે એવી રીતે આ દીકરી મોટા થયેલા પાડાને ઉપાડી લેતી.

સાર સ્વયં સ્પષ્ટ છે. પોતાની જાતની કમશ: ચકાસણીના એરણે ચઢાવતા રહેવું. તો જ કર્તવ્ય સારી રીતે નિભાવી શકાશે.

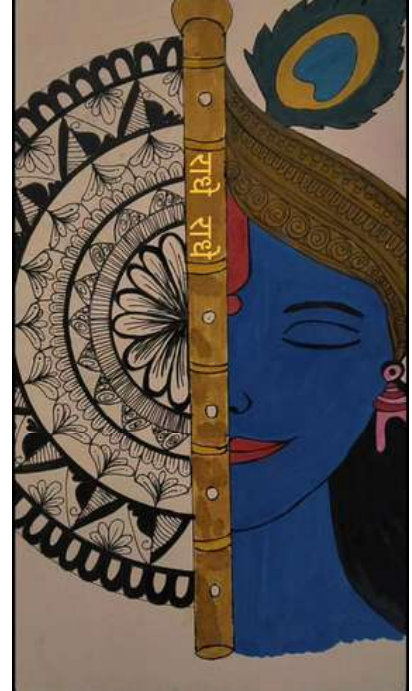
આપણામાં થતા પંચસ્તરીય વિકાસને સભાનપણે જોતાં રહેવાની, એને હમેશાં કસોટીમાં મૂકીને તેને વધુ નિખારવાની જરૂર છે. પોતાની કમતાને પરિસ્થિતિને આધીન કરી ઓછી આંકવી એ પોતાને ના ઓળખવા બરાબર છે. 'મારી પાસે સમય ન હતો', 'હું પાંચ દિવસના પ્રવાસ પછી થાકી ગઈ હતી.' આ વાક્યો પરિસ્થિતિને આધીન થઈ મનમાં સંકુચિતતા લાવી પોતાના કર્તવ્યોથી મોઢું ફેરવી લેતાં કહેવાય.

એક બા જોમનું આપણાં મહામહિમ રાષ્ટ્રપતિજીએ પદાશ્રી આપી સન્માન કર્યું. તેમના પતિ હયાત હતા ત્યારે તેઓ વૃક્ષો વાવતાં, પરંતુ નાની વયે પતિના મૃત્યુ બાદ પણ આજીવન વૃક્ષો વાવતાં રહ્યાં અને તેનું જતન કરતાં રહ્યાં. ૮૦૦૦થી પણ વધુ વૃક્ષો આ થીમકકા બાએ મોટાં કર્યાં. આ સમાચારની સાથે સાથે એક એવા સમાચાર પણ વાંચ્યા કે, એક ૩૨ વર્ષની બેન વેસ્ટર્ન કપડાંમાં પોતાના પતિની સરકારી ગાડીના બોનેટ પર બેસી અભદ્ર રીલ બનાવીને વર્ષગાંઠ ઉજવે છે.

આવા ઉદાહરણો વાંચીને એમ થાય કે માનવ શરીરની અસીમ કમતાઓનો આ કેવો દુર્લભ અને કર્તવ્યોની તો વાત જ કેવી? જો કોઈ ભૂલથી પણ આવા લોકોને પૂછી લે કે તમે સમાજ પ્રત્યેની તમારી કોઈ ફરજ અદા કરો છો? તો એવા તો આડંબર અને સ્વાભિમાન સાથે પોતાનાં કપડાં અને વસ્તુઓના દાન લિસ્ટ સામે મૂકશે અને જગતના ઉદ્ધારના એક માત્ર પ્રણે એમ જતાવશે.

જ્યારે ખરા અર્થમાં પોતાને સમજીએ છીએ ત્યારે પોતાના વિકાસને એક દિશા આપીએ છીએ અને એજ આપણાં કર્તવ્યો નક્કી કરે છે. એ ચાહે શારીરિક વિકાસ હોય, માનસિક, બૌદ્ધિક, આધ્યાત્મિક કે ભાવનાત્મક. આ વિકાસ ફક્ત સ્વયંમ માટે ના રહેતાં સમાજ-પ્રકૃતિનો વિકાસ બને છે. અને એ દરેક કાર્ય એ વ્યક્તિના કર્તવ્યોનું યોગ્ય પાલન શક્ય બનાવે છે. ■

CREATIVE CORNER



Aneri Suthar
crochet flowers , Art

SEM 3



Pragati Sonaiya
Art

SEM 3

EDITORIAL TEAM

Dr. Sweta P. Dave

(Chair Person)

Dr. N.K. Arora

(HOD - Applied Mechanics Department)

Prof. Shilpa Parmar

(Coordinator)

Dhairyarajsinh Rathod (Student- 5th Semester)

(Team Lead)

Shakya Rupal , Jayswal Gayatri (Students - 5th Semester)

(Content writer)



**GOVERNMENT
ENGINEERING COLLEGE
GANDHINAGAR**



CONTACT US
Nr. Animal Vaccine Institute,
Sector-28, Gandhinagar, Gujarat-382028



<http://www.gecg28.ac.in>