

BULTCON

Dreams of Construction

OUR DEPARTMENT 'S...

VISION

To develop dynamic learning environment in the field of civil engineering to congregate the professional skills and innovative needs of the society.

MISSION

- To impart quality technical education by dedicated faculty using innovative learning techniques.
- To bridge the gap between professionals and academic institute.
- To inculcate moral and ethical values among the students.
- To create awareness and thirst for lifelong learning keeping in mind sustainable issues, technological trends and entrepreneurship.
- To emerge as a reliable knowledge hub for the industry,



CIVIL ENGINEERING DEPARTMENT

GOVERNMENT POLYTECHNIC FOR GIRLS

OPP. PRL, GUJARAT UNIVERSITY ROAD, NAVARANGPURA, AHMEDABAD – 380 015



Acknowledgment

Civil Engineering Department of Government Polytechnic for Girls, Ahmedabad feels concrete to present its genuine stakeholders "BUILTCON" a semester with newsletter. This newsletter "BUILTCON" started with an objective of knowledge sharing and spreading divergent activities of Civil Engineering Department. Civil Engineering Department would also like to focus on new technology in construction field, latest ongoing and upcoming trends and events, previous month's news and events.

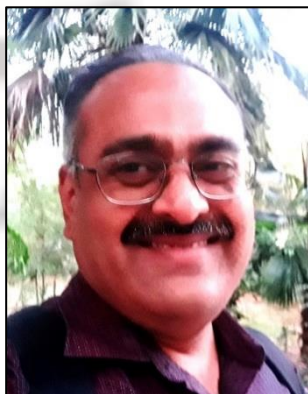
Civil Engineering Department consider this newsletter "BUILTCON" as a best place to appreciate the students, faculty members and stake holders for their achievements. Civil Engineering Department hope, this newsletter provides necessary motivation to the stake holders as well as also very much helpful to update our knowledge of fast-growing Civil Engineering and construction field.

Finally, Civil Engineering Department would like to extend our deepest gratitude to all members who directly or indirectly involved and give their valuable support for making this newsletter "BUILTCON". We know that without grace of all mighty GOD this thing is not possible. So, here by we are presenting third Volume of "BUILTCON".

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Message from Principal's Desk



Mr. B. J. Iyer

“Technology is the Gift of God. After the gift of life it is perhaps the greatest God’s gifts. It is the mother of civilization, of arts and of sciences.”

Freeman Dyson

Government Polytechnic for Girls - Ahmedabad (GPGA), a premier diploma engineering institute was established in the year 1968 with the aim to provide technical education to girls in the heritage city of Ahmedabad. It is located right opposite to PRL and adjacent to ATIRA, in the throbbing educational hub within the heart of the city and in the vicinity of reputed institutes like L.D.College of Engg., Gujarat University, L.M.College of Pharmacy and the world renowned CEPT University. It is endowed with a beautiful green campus which has its own flora and fauna.

At present, GPGA offers 3 year diplomas in 6 programmes under Commissionerate of Technical Education and is affiliated with Gujarat Technological University (GTU). These are Diplomas in Architecture Assistantship (DAA), Biomedical Engineering (DBE), Computer Aided Costume Design and Dress Making (DCACDDM), Civil Engineering (DCE), Computer Engineering (DCoE), Electronics and Communication Engineering (DEC) and Information Technology Engineering (ITE).

GPGA has a tradition of imparting quality technical knowledge and ethical values to the students. No wonder GPGA is ranked among top 10 government diploma engineering colleges in Gujarat consistently over the last five years.

For years, the institute’s major focus and concern have been our students and our institution strive to impart the best knowledge in respective fields for promoting and pursuing multidisciplinary diploma engineering in the most disciplined manner. Every student of the

institute has been among some of the best talents of the vibrant state of Gujarat. Many of GPGA's alumnae have established themselves as entrepreneurs while some have continued higher studies with well-known engineering institutes of India as well as abroad. Thus they have carved a niche for themselves in various technical fields throughout the state, our nation and even abroad.

The institute has an excellent track record of placements in past few years and students of GPGA have proved their mettle in industry, academics, and administration over the last many years. This glory has been due to the synergetic efforts of management, learned faculty, dedicated staff and sincere students over these years. I urge everyone, including staff and students, to make excellent careers by availing the unique opportunity that GPGA provides through classroom teaching, laboratory instructions, industrial trainings and participation in sports, cultural and other extra-curricular activities of interest. Recently, formation of GPGA's Alumnae Association has also been undertaken.

During the current academic year, three programmes of GPGA i.e. DCACDDM, DCE and DCoE have initiated the process of application for Accreditation with NBA. For the faculty and administrators, accreditation promotes ongoing self-evaluation and continuous improvement and provides an effective system for accountability. For the institute or programme, accreditation enhances its national reputation and represents peer recognition. Thus to further the institute's aim towards excellence, accreditation process has been undertaken. I extend my best wishes to all staff members and students of these programmes for getting accredited in the year 2021.

I express my sincere gratitude to all our stakeholders for their continued support, cooperation and active involvement to make GPGA a citadel of Technical Learning, which sets its own benchmark.

Message from HOD's Desk



Dear readers,

I wish all the students are safe in pandemic situation of Corona. Still Corona is present I hope for good situation in near future. Due to this current situation teaching is carried out online on "MS TEAM". I hope you all are facilitated with online teaching. Our department is committed to provide students with a strong, broad based fundamental engineering education and prepare the students for a career in the civil engineering industry.

I personally look forward to integrate my experience of over 25 years in teaching into the learning systems and the collective efforts of all faculties build a comprehensive methodology that encompasses whatever that matters for nurturing the minds of our students.

I look forward for preparing my students to face the challenges; the technology and engineering sector would offer in the future and succeed in offering technological solutions for the betterment of the society and our nation. As per the vision and mission, our aim is to deliver the best to our students, to the society and the nation.

Wishing all our students brilliant and bright future.

With Best Wishes,

Faculties information of Civil Engineering Department



Mrs. M. M. Desai
(Head of Department)
(M.E, Transport)



Mr. P. N. PATEL
(M.E, WRM)



Mr. R.M. Patel
(M.E, WRM)



Mr. H. S. Patel
(M.E, WRM)



Mr. M. M. Savarkundlawala
(M.E, WRM)



Mr. D. H. Dalal
(M.E, WRM)



Mrs. F. P. Ambalia
(M. Tech., Town
Planning)



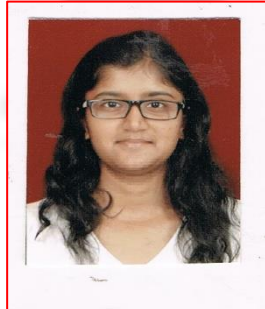
Ms. I. M. Upadhyay
(M.E, WRM)



Ms. B. H. Dave
(M.E, Infrastructure)



Ms. T. R. Agrawal
(M.E, Structure)



Ms. K. J. Shah
(B.E Civil)



Mr. K. M. Vora
(M.E Structure)



Ms. R. C. Dave
(M.E Structure)

Scope of Civil Engineering:

This question may be asked by most of the Civil Engineering Graduates during the studies or after the graduation.

Studying Civil engineering is the dream of every second aspirant due to a number of reasons – growth, job opportunities, salary range and continuous industry growth.

The major driving force for the present-day Construction Technology revolution is the development in Civil Engineering. The advancements in construction technology, analog new techniques for construction have resulted in developing maximum safety, economic and environment friendly structure for society.

The basic principles and performance of new construction technics are introduced in the course. Design and analysis of different civil structure are considered in detail.

The huge career scope of civil engineers is worldwide - as according to research report by Global Marketing Insights, Inc, the market size of civil engineering is expected to grow up USD 11.72 trillion by 2025.

Best Career Options After Engineering. 1) Higher Studies. 2) Public Service Undertakings. 3) Management. 4) Entrepreneurship. 5) Campus Placements. 6) Become an Expert. 7) Civil Services. 8) Look for internships. 9) Enter the private sector. 10) Chartered valuer. 11) Join the Indian Armed Forces.

The most exciting new technologies used in civil engineering is building integrated photovoltaic (BIP) glazing, which can help buildings to generate their own electricity, by turning the whole building envelope into a solar panel.

Modern construction methods are methods that are developed in construction industry with proper planning and design so that each project reduces the construction time, cost and maintain overall sustainability.

The course also covers the study of different subjects like

- Environmental and Water Resources Engineering.
- Geotechnical Engineering.
- Structural Engineering and Materials.
- Transportation Infrastructure and Systems Engineering.
- Construction Engineering and Management.

Core companies offer internships and jobs



Although there are numerous startups/small firms offering internships on specific domains, there are quite a lot of private/public sector companies that too offer internship opportunities for engineering students.

Some of the top private sector companies are:

- Ambuja cement pvt.ltd
- Ultratech
- KCT Consulting service
- PSP Projects
- Adani Infra (India) Limited
- Reliance Infra structure
- CAD CENTER
- L&T
- R. B. Construction Co. (RBC)
- P.C. Snehal Construction Company – P.C. Snehal Engineers Private Limited
- Cube Construction Engineering Limited
- SCC Infrastructure Pvt. Ltd. (Formerly, Shashin Construction Company)
- Nila Infrastructures Limited
- Bridge & Roof Co (India) Limited
- Coastal Projects Pvt Ltd (CPPL)

Some of the public sector companies are:

- R&B
- Irrigation
- Municipal Corporation
- GWSSB
- Urban development authority
- Town Planning Department
- Education Department
- IRCOL
- EIL
- ONGC
- ISRO
- AAI

- UGVCL
- Torrent
- DEFENCE SERVICE (Level Architect)

New Technologies:



These new Technologies will become mainstream in nearest future hence one can make their proper career planning and prepare themselves as per the need of that field.

- Building Information Modelling (BIM)
- Cloud and Mobile Technology
- Drones or Unmanned Aerial Vehicles (UAVs)
- Virtual Reality
- Augmented Reality
- 3D Printing
- Artificial Intelligence
- Robotics
- Exoskeletons
- The Connected Jobsite
- Autonomous Vehicles
- Advanced Materials
- The Intelligent Built Environment
- Machine Learning
- Prefabrications
- Predictive Analytics
- Construction Software and Data Ecosystem
- Self-Healing Concrete
- Advance Uses Of GPS
- New Effective Scanning Solutions
- Timber Constructions
- Wearable Technology
- Smart Building
- Modular Construction And 3D Printed Dwellings
- Smart Buildings
- Connected Homes
- Home Analytics

Upcoming Events:

❖ Site visits:



- Water Treatment Plant, kotarpur, Ahmedabad
- Construction Site of Building, Ahmedabad
- Building Material Testing lab
- Construction Site visit at IIM Building, PSP Project, Ahmedabad
- Sewage treatment plant, Pirana, Ahmedabad
- Arrange Expert Lectures in the various fields of Civil Engineering.

❖ Webinars:



- Webinars will organize for more knowledge on different subjects of Civil Engineering.
 - Water supply & sanitary Engineering
 - Estimation & costing
 - Surveying
 - Building Drawing
 - Building Material
 - Building Services
 - Hydraulics
 - Advanced Construction Technology

❖ Project



For field knowledge also organizes Project work in different aspects of Civil Engineering Subjects.

❖ Training

Under KCG Revit Architecture training was organized by IGTR from 15/3/21 to 12/4/21 ,6 nos. of Civil Department Students under took this training.

SR NO	NAME	ENROLLMENT NO
1	GAVADE HETAKSHI	186140306034
2	DIXIT HARVI	186140306028
3	GURJAR KHUSHBU	186140306041
4	UPADHYAY VRATIKA	186140306116
5	PAWAR DHVANI	186140306093
6	VACHHETA NISHA	186140306117

❖ Shining Star of Civil

GTU Results

5TH SEMESTER RESULT					
RANK	ENROLLMENT NO	NAME	SPI	CPI	CGPA
1	186140306011	CHAUDHARI BHAVNABEN BALVANTBHAI	9.85	9.02	9.46
2	186140306108	SHUKLA ANJALIBEN SHANTMANI	9.42	9.05	9.31
3	186140306023	Chavda Shruti Amrutbhai	9.33	8.61	9.06

3RD SEMESTER RESULT					
RANK	ENROLLMENT NO	NAME	SPI	CPI	CGPA
1	196140306089	PRAJAPATI ANJALI	9.66	9.01	9.66
2	196140306117	VARADA DIVYESH PADIYA	9.28	8.99	9.28
3	196140306115	GHELA NANDINIBA PARAKRAMSI	9.09	8.59	9.09

1 ST SEM RESULT				
RANK	ENROLLMENT NO	NAME	SPI	CPI
1	206140306016	Manushree Ketan Trivedi	9.71	9.71
2	206140306012	MISTRI VISHWA RAJESHKUMAR	9.39	9.39
3	206140306007	CHHARA APEKSHA SHASHIKANT	9.36	9.36

❖ quotes

"It is better to live your own destiny imperfectly than to live an imitation of somebody else's life with perfection."

— **The Bhagavad Gita**

"Curving back within myself I create again and again."

— **The Bhagavad Gita**

"The peace of God is with them whose mind and soul are in harmony, who are free from desire and wrath, who know their own soul."

— **The Bhagavad Gita**

Engineering problems are under-defined, there are many solutions, good, bad and indifferent. The art is to arrive at a good solution. This is a creative activity, involving imagination, intuition and deliberate choice.

– **Ove Arup**

From the laying out of a line of a tunnel to its final completion, the work may be either a series of experiments made at the expense of the proprietors of the project, or a series of judicious applications of the results of previous experience.

– **HS Drinker**

❖ EDITORIAL TEAM (2021-22)

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1	HINAL RATHOD	206140306002
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5	PRAJAPATI ANJALI	196140306089
6	CHAUHAN JIGNASA	196140306017
7	PARMAR JAYSHREE	196140306069
8	MUDRA DARJI	196140306028
9	AAISHWARYA PANDEY	196140306066



OUR INSTITUTE'S

VISION

To carve a brighter prospect for the nation through excellence in technical education to foster skills, ethical values and environmental consciousness among girls while undertaking existing and forthcoming challenges.

MISSION

- To nurture technical and creative skills through quality education.
- To strengthen industries interaction.
- To impart real-life problem-solving skills.
- To promote care for sustainability of environment and social responsibility.

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