

ELECTRONICS AND COMMUNICATION DEPARTMENT

VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE
CHANDKHEDA, AHMEDABAD - 382424



VISION

To create an ecosystem for proliferation of socially responsible and technically sound Electronics and Communication Engineers, innovators and entrepreneurs.

MISSION

- To develop state-of-the-art laboratories and well-equipped academic infrastructure.
- To motivate faculty and staff for qualification up-gradation, and enhancement of subject knowledge.
- To promote Entrepreneurship, research, innovation and real life problem solving.
- To strengthen linkages with Industries, academic and research organizations.
- To reinforce concern for sustainability, natural resource preservation and social responsibility.

What's inside
this issue:

- Faculty achievements
- Placement of Batch 2022
- Competitive exam result
- Student achievements
- Department activities
- Creative Corner

FACULTY ACHIEVEMENTS



Dr. Kiran Trivedi and his team ML4ENV won the 'Hackathon - Designing A Sustainable Future Using ICT's' under climate change category organized by Telecommunication and digital Government Regulatory Authority (TDRA).



Dr. Alpeh Dafda attended a one-day workshop, held on 13th June, on “Remote Sensing Concepts and Analysis with open source QGIS” organized by Electronics and Communication Engineering Department at VGEC – Chandkheda, Ahmedabad.

He has authored a book on Consumer electronics (ISBN: 978-93-5583-019-7) for MSBTE which is published by Tech-Neo publications, Pune in March-2022.

He participated in “2022 International Workshop on Advances in Antennas & Microwave Technologies- Challenges & Opportunities (Roadmap towards Self-Reliance” organized on 16th March, 2022 at Space Applications Center, ISRO, Ahmedabad.

He has published a paper titled "A comparative and Productive analysis using FPGA for implementation of video file transmission", GIS Science Journal, ISSN: 1869 - 9391, Vol-9, Issue 1, January 2022.



Prof. K.P. Acharya completed Two Weeks MOOC NPTEL Course on “Leadership and Team effectiveness” with 67% .



Prof. N. P. Patel participated in Faculty Development Program “Design Engineering – Level 1” organized by the Design Innovation Center of Gujarat Technological University.



Prof. Rahul Patel and **Dr. Kiran Trivedi** published a paper titled “A Comparative Study of Fake News Detection Using Natural Language Processing and Machine Learning” International Advanced Research Journal in Science, Engineering and Technology Impact Factor 7.105 Vol. 9, Issue 1, January 2022.



Prof. Jayesh Diwan and a team of 3-4 students published a research paper in the GTU multidisciplinary International Journal on Drone based Imaging system for waste assessment. The team made a drone which can travel on predefined path. Volume 4 Issue 1 Jan 2022, ISSN: 2581-8880



Prof. Kalpesh Chaudhary has completed Two Weeks MOOC on “Principles of Digital Communications” by NPTEL with 62% and was amongst the toppers.



Prof. Shreeji S. Sheth has participated in Xilinx Webinar on Embedded System Design Flow using Xilinx Vivado and Vitis held on 23rd March 2022 in association with CoreEL Technologies and Xilinx.

She has successfully completed MOOC on "Introduction to Programming in C" during February to April 2022 by NPTEL with 100% Score (Elite + Gold) and was amongst the toppers.

She has successfully completed FDP on "IR 4.0 Technology – Cloud Computing".

She has attended a one-day workshop, held on 13th June, on "Remote Sensing Concepts and Analysis with open source QGIS" organized by Electronics and Communication Engineering Department at VGEC – Chandkheda, Ahmedabad.



Prof. Rina S. Parikh successfully Completed MOOC on "Introduction to Programming in C" by NPTEL with 89% Score (Elite + Silver).

PLACEMENT DETAILS

Sr. No.	Name	Company Name
1	MAHIMNA HARSHIDDH BHATT	Tech Mahindra Cerium Systems
2	ASIT JAYESHKUMAR CHAVDA	Softnautics LLP
3	JEEL VIRAL DOSHI	Incapsulate India Pvt. Ltd.
4	HIRAPARA JAYENDRA BHOLABHAI	Cerium Systems
5	RAM PRADIP BHAI MAHETA	Tata Motors Ltd.
6	JANAVI ROSHANBHAI NAGAR	Amrut Energy
7	SAJITH GOPI NAIR	Adani Enterprises Limited
8	ANUJ HARSHADRAY PAREKH	Synapse Design
9	SONAL ARBHAMBHAI PARMAR	Wipro Limited
10	PAYAL DINESHBHAI SHRIVAS	Teq diligent Product Solutions Pvt Ltd.
11	VIDHI MUKUNDKUMAR SUTHAR	Monarch Innovation pvt. ltd.
12	RONAK MAYANK TANDON	Vodafone Idea Limited
13	DHRUVI DHARMENDRABHAI TRIVEDI	Ace Analytics
14	MEETKUMAR KANTILAL VELANI	Vodafone Idea Limited
15	AMEY NITIN DESHPANDE	Ubisoft
16	DISHANK JAYENDRABHAI JOGI	Dalia Institute of diploma studies
17	KAMLESHKUMAR GANESHJI PRAJAPATI	Linc Digital Systems Pvt. Ltd.
18	SHRUTI NAVNEET KUMAR NIRANJANEE	Redicine Medsol Pvt. Ltd
19	SHAILENDRA RAJANAND YADAV	Optimized Solutions

COMPETITIVE EXAM RESULT (GATE 2022)



Patel Aashrey
AIR: 603
Score: 637



Mahimna Bhatt
AIR: 3856
Score: 429



Pooja Patel
AIR: 9439
Score: 321



Bagwe Sarvesh
AIR: 5125
Score: 396



Navin Pandey
AIR: 5674
Score: 383

STUDENT ACHIEVEMENTS

Lathigra Dev Jitendrabhai (EC) and **Mistry Deven Chetanbhai** (EE) of 4th semester won 2nd prize for making a 3D Printer in model making, during National Technology Day competition held on 5-6 May which was organized by Institute of plasma research collaboration with L.D. engineering college.

Arya Yash of 8th Sem won his Yellow belt in the Taekwon-Do promotion test, organized by the Taewon-Do Association of India.

Varun Shah got selected in GTU MOTORSPORTS.

Bharat Murlidhar Ahuja is the Student Placement Coordinator of the 2021-2022 Year, he is also the Election Campus Brand Ambassador of the year 2021-2022

Manpreet Kaur of 4th semester bagged 3rd place in the poster making competition on the occasion of world water day, organized by the Civil Engineering department.

Yug Gajjar got accepted into Prof. Ahmed E. Hassan's research lab.

Chirag Ahir of 8th semester clicked a spectacular photo which was one of the top 10 winning photographs of TASVEER - A photography contest organized by VGEC Photography Club.

Sarvesh Bagwe, Love Fadia, Reetika and **Neha Uttwani** under the guidance of Prof. Jayesh Diwan, published a research paper in the GTU multidisciplinary International Journal on Drone based Imaging system for waste assessment. The team made a drone which can travel on predefined path.

Furthermore, they developed an automated system using drone, which can remotely capture photos from drone using ESP 32 cam and LAMP server which is deployed on Raspberry pi. Furthermore, the team wrote an algorithm in python that can determine whether there is a need of waste collection or not by the means of image processing and image analysis on the photos that are captured using Drone.

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DEPARTMENT ACTIVITIES



Vishwakarma Government Engineering College
Chandkheda, Ahmedabad

Electronics and Communication Engineering Department
is going to organize a Demonstration of
“NavIC-Navigation with Indian Constellation”
on 22.03.2022, 5.00 PM-6.00 PM.
Location : F-210

NaVIC Applications:

- 1.Road Navigation
- 2.Rail Navigation and Safety
- 3.Vehicle Monitoring
- 4.Surveying
- 5.Disaster Management

Key Features:

- 1.Indigenous Satellite Navigation system with 7 GEO/GSO satellites
- 2.Provides accurate position information service to user in India as well as the region extending up to 1500 km from its boundary
- 3.Accuracy: <20 m
- 4.The Frequency band is L5[1164-1189 MHz] & S[2483.5-2500 MHz]

Demonstrator:
Dr. A.H.Dafda
Assistant Professor
EC Department
VGEC, Chandkheda

vgec.ac.in vgec.official officialVgec OfficialVGec

An open-to-all demonstration on NavIC receiver was held at F-210 lab of EC Engineering Department of VGEC, Chandkheda on 22nd March 22. This demonstration was kept to make the students aware regarding India's own navigation system and satellites used for it. NavIC stands for Navigation with Indian Constellation. It is an Indigenous Satellite Navigation System with 7 GEO/GSO satellites. It provides accurate position information service to users in India as well as the region extending up to 1500 km from its boundary having an accuracy of <20 m.



Vishwakarma Government Engineering College
Chandkheda, Ahmedabad

Electronics and Communication Department organized
an Expert Talk on
“Big Data Computing in Wireless Sensor Application”

Discussion points

- Big data and its meaning
- Life cycle of big data analytics in wireless networks
- Challenges in data pre processing
- Challenges in data storage
- Distributed computing models
- Wireless sensing technique
- Big data analytics

Dr. Kalyan Sasidhar,
Associate Professor,
DAICT, Gandhinagar

25th January, 2022 MS Teams 72

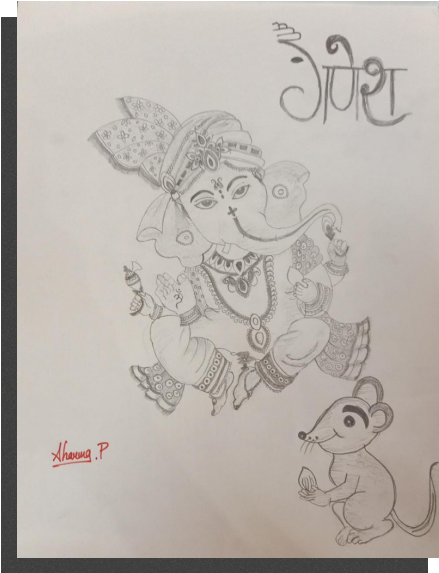
www.vgec.ac.in vgec.official officialVgec officialVGec

The EC Department has organized an expert talk on “Big Data Computing in Wireless Sensor Application” on 25th January, 2021 from 11:00 AM to 12:30 PM. The main objective for this expert talk was to explore the big data and its computing requirement for wireless sensor application.



Electronics and Communication Engineering Department organized a one day Industrial Visit at e-Infochips Ltd for 6th Semester (BE) students on 22nd March, 2022. The trip was organized to motivate students for opting career in core technical domain for EC, to help students to gain information regarding complete VLSI Design flow and recent industry trends in VLSI and Embedded systems, to provide exposure to students for different tools and design methodologies adopted by industry and to make them aware of the different career opportunities in the field of VLSI and embedded systems.

CREATIVE CORNER



Pooja Sharma (Sem-8)



Shuchi Shah (Sem-6)

There is nothing on my face
I checked a thousand times
"Is there any kind of mess?"
I asked everyone around

What is still left
I got my everything down
What are they laughing at
I still can't figure out

So I decided to join this team
I was desperate to know the
reason
Now I know they laugh at
anything
They find peculiar

Prisha Sheth (Sem-4)



Ayushi Shah (Sem-6)

Editorial Team Members

Dr. Arun Nandurbarkar
Prof. Jaynila Prajapati
Prof. Dhara Sanghani
Hardi Patel
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Prisha Seth

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