



Newsletter

Information Technology Department

Year: 2019 - 2020



About GEC, Gandhinagar



Established in 2004, Government Engineering College, Gandhinagar (GEC-Gn) takes pride in its highly motivated students. Our students are life-long assets that help this institute to continuously evolve and work towards its Vision. Approved by AICTE. The College is administrated by Directorate of Technical Education, Gujarat State, Gandhinagar. GEC Gn is affiliated to Gujarat Technological University. GEC-Gn offers its students a wide range of courses to choose from. This helps them to become multi-skilled personalities who can handle the challenges that industry and society will pose before them as future engineers. Committed, to deliver excellence in everything that it does, our institute works towards reducing the gap between industry and education. GEC-Gn endeavours to educate its students in a manner that offers them an opportunity not only to excel in academics but to be completely

aware of their future industrial needs for professional expertise through innovative and flexible curriculum. This trains the students of this campus to reach their highest potential. The highly dedicated faculty members of GEC-Gn are experts in their professional fields. Their professional skills and industry linkages help the students by grooming them to become competent engineers who will contribute to the society and economy in the long run

Vision

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

About IT Department



- Program offered: Bachelor of Engineering in Information Technology (4 years full time course)
- Total Intake: 60
- Department of Information Technology is well poised to cater the needs of the Undergraduate Engineering students and works jointly with Computer Department. It is equipped with well-developed laboratories to satisfy the curriculum of various subjects.
- Almost all fields are computerized to have ease of handling the problems of designing, manufacturing, maintenance, servicing, researching, marketing and accounting.

The B.E. Information Technology program includes computer operations on different languages, data generation, collection and utilization of information, etc. The course imparts all the basics as well as advanced knowledge pertaining to the rapidly developing field of Information practices. The course is designed to keep students in pace with the practical field. This is required for the critical analysis, design, evolution and improvement of Information Management systems. It is our

Vision

To educate students to be innovative and technically competent IT professionals to meet the industrial and social requirements.

Mission

- To produce technically capable and socially responsible graduates.
 - To create facilities where students gain practical exposure in IT.
 - To support research culture, consultancy work and enhancement of entrepreneurship skills.
 - To enhance industry interaction for good placements and real-world exposure.
 - To induce moral, ethical values and spirit of social
-

Program Educational Objectives (PEOs)

PEO1

The graduate will be a competent professional with high-level technical proficiency in the field of Information Technology to identify problems and develop innovative solutions to meet the industrial needs.

PEO2

The graduate will exhibit professionalism, teamwork, leadership skills and exposure to current needs.

PEO3

The graduate will be capable enough to adapt the changes in roles and responsibilities through professional development and lifelong learning over self-study or continuing education in IT or managerial studies.

PEO4

The graduates will ethically apply their computing knowledge and skills considering societal, economic and environmental factors.

Program Specific Outcomes (PSOs)

PSO1

Foundations of Software Development: Use programming and software design principles to develop various software products in emerging areas.

PSO2

Foundation of Mathematical Concepts: Ability to apply mathematical concept to solve computation task, model real world problem using appropriate data structure and suitable algorithms.

PSO3

Competent in Emerging Trends: Ability to use recent tools and techniques necessary for computing practices.

PSO4

Applications of Computing and Research Ability: Ability to use knowledge in various areas to identify research gaps and provides innovative solution

Events & Activities

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STTP on Machine Learning, Data Science and Deep Learning with Python

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STTP on Android Programming

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Farewell of HOD Sir

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Placement Activities

1

STTP on Machine Learning, Data Science and Deep Learning with Python

10th to 21st June 2019

Introduction

A two-week STTP on Machine Learning, Data Science and Deep Learning with Python had been conducted from 10th to 21st of June 2019, at Government Engineering College, Gandhinagar.

Program was approved by DTE and sponsored by GUJCOST.

The training program was organized by Computer Engineering Department of Government Engineering College, Gandhinagar under the coordination of Prof. B.V. Buddhadev (Ex H.O.D. of C.E. Department) , Prof. Pinal J. Patel and faculties of C.E. department.

Training program was attended by 53 participants. Participants were comprised of different fields like professors from different colleges from academic field and few peoples form industrial field.

Description

After the inauguration Prof. B.V. Buddhadev (Ex H.O.D. of C.E. Department) started the training program with their session on Hardware and Software Computing. He taught the difference between the both types computing approaches with taking several examples.

On the very next day, Dr. Srimanta Manda was invited to take a session on statistics and probability which is an integral part of Machine Learning. He taught the different statistical and probability tactics that are generally used in Machine learning.

For the next two and a half days Dr. Mahesh Goyani was invited to continue the training program further with mainly emphasized topic of the training – Machine Learning.

He taught about different types of machine learning and when and how they work. He showed different types of machine learning like supervised and unsupervised machine learning. He taught about the different algorithms that runs behind these different types of machine learning.

Memories







Conclusion

The two-week STTP program on Machine Learning, Data Science and Deep Learning was an opportunity to come across the trending and emerging technologies of computer science. It showed that how these technologies were inspired from working of human brain and how they get fit into this modern world. It generated the curiosity to know more about these technologies and spread this knowledge further to upcoming engineers.

The two-weeks of this healthy training program widen the view on the trending and upcoming technologies. And further to seek this type of training programs in future.

2

STTP on Android Programming

14th October to 18th October 2019

Introduction

One-week Short Term Training Program on Android Programming had been conducted from 14th to 18th of October 2019, at Government Engineering College, Gandhinagar.

Program was approved by CTE and GTU.

Memories





3

Farewell of HOD sir (Prof. B. V. Buddhadev)

31st December 2019



4

NBA Work related meeting



5

Khovayel Khel Season 5

26th February 2020

Introduction

To take a ride to those childhood nostalgic days again. A break from your everyday mundane schedule. Interaction between faculties and students apart from regular academia. Make the new generation aware of those lost games. Interaction of techno-crate engineers with our traditional games.

Nowadays video games and mobile phones have replaced innocent and fun-loving games such as KK Special – (Sack race, Lemon and Spoon, Langdi), Pagathiya, Rumal Khech, Satoliya and many more. So, we have undertaken this task of re-cherishing those memories and those days.

Memories







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Quench 2020 (Techfest)5th and 6th March 2020**Event List**

Sr.No	Department coordinator	Event Name	Faculty Coordinator	Venue	No. Of Participants
1	Prof. K.D.Anadkat	Short code	Prof.D.P.Khem	5002	170
2		Web Dev	Prof.S.B.Patel	5006	105
3		Crypto hunt	Prof. N.S. Shroff	5102	81
4		Code-o-fiesta	Prof.P.B.Patel	5102	95
5		Cyber hunt	Prof.B.U.Gadhiya	5112,5113	99
6		Tech Build	Prof.Z.K.Gajjar	5002	49
7		IT Wiz Quiz	Prof.A.B.Sangada	5001	70
Total Number of Participants					669





7

Project Fair

7th March 2020

All the Students of Final year B.E. INFORMATION TECHNOLOGY participated in Project Expo March 2020 held on 7th March 2020 in Computer Engineering/ IT Department, Building no. 5 in Government Engineering College, Gandhinagar.

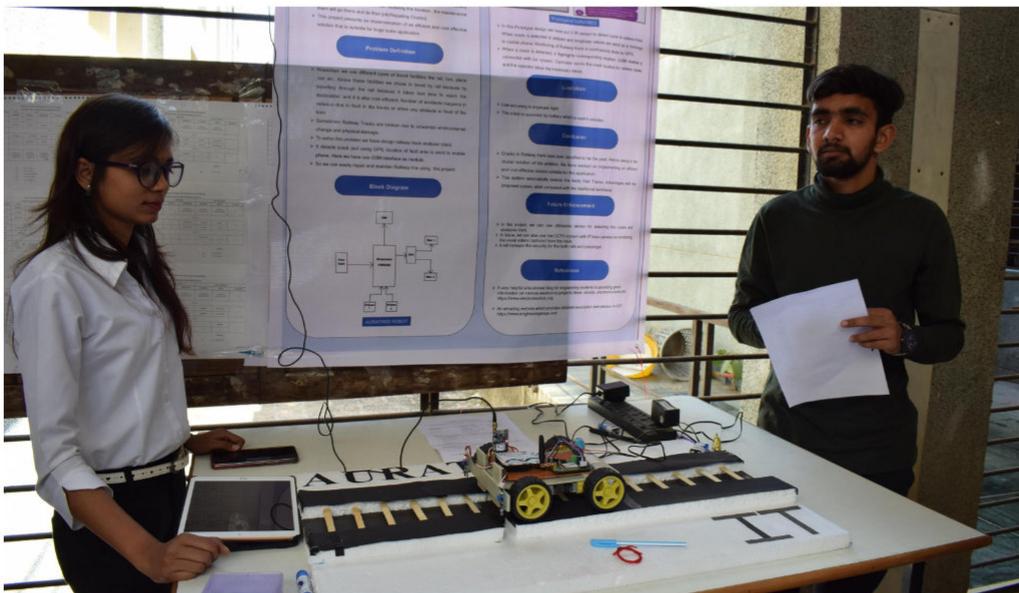
2 experts from academic and industry were called to judge around 27 projects.

Best of 3 projects were declared as winner and remaining all students got the participant certificate.

Sr. No.	ENROLLMENT NO.	Team Leader name	Title of IDP/UDP	Rank of Best 03
1	170133116022	PANKTI SUGANDHI	CANCER PREDICTOR AND DETECTOR	1
	170133116017			
	170133116019			
2	170133116016	PRAJAPATI NISHARG CHANDUBHAI	AI Based Desktop Voice Assistant	2
	160130116061			
	170133116015			
3	160130116003	BHATT SIDDHARTH R	AURATRED	3
	170133116018			
	160130116042			

Memories







8

Expert Session by Silvertouch Tech. Ltd.

12th March 2020

Topic: Digital Transformations

Experts:

Mr. Aadarsh Parikh & Miss. Akanksha Goplani

Introduction

Digital Transformation marks a radical rethinking of how an organization uses technology, People & processes to fundamentally change business performance. It's time to Create Good Youth of Engineers who can Immediately Join Industry. In this session experts delivered talk on emerging technologies like Artificial Intelligence, Machine Learning, Big Data Analytics, IoT etc. We as Institute taken this Initiative and took a challenge to prepare every year big number of Students and give them best exposure for Industry.

Benefits

- Latest technologies Awareness to Faculties & Students
 - Industry Case Studies and Live Project Exposure
 - One to one Counseling and Queries Answers
 - Job Placements opportunities awareness in Digital Transformation
-
-
-

Memories



9

Wordpress Development webinar by ManticLabs

27th June 2020

Speaker: Ujjvalsinh Bihola (CEO, ManticLabs)

Topics

- Wordpress Setup with Domain and Hosting
- Themes and Plugins
- Wordpress Blog
- Earn money via blog
- E-commerce website using Wordpress

Memories

The screenshot shows a Google Meet session. The main window displays a screen share of a website for the 'A to Z INFOYS' MasterBox Series. The website content includes:

- Search:** 'I'm shopping for...' with a search button.
- Text:** 'Three addressable RGB fans flood the Polygonal Mesh front panel with lighting while providing considerable airflow to the system.'
- Certified compatible with:** ASUS, Gigabyte, MSI, and ASRock motherboards.
- Dual 360mm Radiator Support:** 'For enthusiast-grade cooling, two 360mm radiators are supported on the top and front panel to keep the most extreme systems cool.'
- Versatile Cooling Options:** 'Support for up to seven 120mm fans and 360mm front and top radiator support ensure that performance is not compromised.'
- Room For Upgrades:** 'Support for up to a 410mm graphics card, a 165mm CPU cooler, and up to a 180mm PSU in length provides room for upgrades to stay ahead of the game.'
- Specifications:**

Product Number	MCB-D500D-WGN-S01
Series	MasterBox Series
Size	Mid Tower
Color	White

The chat window on the right shows the following messages:

- Indian Columnist 14:07 gujarati
- Jeet Ambaliya 14:09 screen not visible
- You 14:09 please everybody switch to Ujjvalsinh screen
- Monil Bhavsar 14:13 Thanks you
- Nice & Useful Webinar
- Monil Bhavsar 14:25 How to make e-commerce site?

The bottom of the screenshot shows the Windows taskbar with the search bar and system tray.

Meet - WordPress Development

meet.google.com/grh-sdms-bak

Ujjvalsinh Biha is presenting

WordPress Development

People (17) Chat

Ankit Dave 14:55
Is there any alternatives of google AdSense?

You 14:55
yes there are many options available like propeller ads

Nandu Dobariya 14:57
how much I can earn just building wordpress websites?
any suggestions for final year projects

Nandu Dobariya 14:58
and want to know more about what is after college graduation?
how to start freelancing?

Send a message to everyone

Meet - WordPress Development

meet.google.com/grh-sdms-bak

Ujjvalsinh Biha is presenting

WordPress Development

People (20) Chat

Add people

- Nachiket Panchal (You)
- Ali Hedar Savdi
- Ankit Dave
- Divya Bagul
- HETVI PATEL
- Kashyap Kumbhani
- Kishan Kachhadiya

File Manager

Name	Size	Last Modified	Type	Permissions
well-known	4 KB	Today, 1:47 PM	httpdunix-directory	0755
cgi-bin	4 KB	Today, 1:46 PM	httpdunix-directory	0755
wp	4 KB	Today, 2:14 PM	httpdunix-directory	0755
wp-admin	4 KB	Today, 1:46 PM	httpdunix-directory	0755
wp-content	4 KB	Today, 2:29 PM	httpdunix-directory	0755
wp-includes	12 KB	Today, 1:46 PM	httpdunix-directory	0755
htaccess	735 bytes	Today, 1:46 PM	text/x-generic	0644
error_log	1.53 KB	Today, 2:29 PM	text/x-generic	0644
index.php	405 bytes	Feb 6, 2020, 11:33 PM	application/x-httpd-php	0644
license.txt	19.45 KB	Feb 13, 2020, 4:54 AM	text/plain	0644
readme.html	7.11 KB	Jan 11, 2020, 7:05 AM	text/html	0644
wp-activate.php	6.75 KB	Feb 6, 2020, 11:33 PM	application/x-httpd-php	0644
wp-blog			application/x-httpd-php	0644

Meet - WordPress Development

meet.google.com/grh-sdms-bak

Ujjvalsinh Biha is presenting

WordPress Development

People (20) Chat

- Monil Bhavsar
- Nandu Dobariya
- PANKTI PATEL
- Parth Jiyani
- Pooja Patel
- Pruthvisinh zala
- sahil jani
- Shiv Patel
- Suman Malukani

Themes

NEWS X PAPER

Twenty Nineteen

Twenty Seventeen

10

Machine Learning webinar

4th July 2020

Topic: Baby steps in Machine Learning through Google Colab

Speaker: Mrs. Komal Anadkat

(Assistant Professor, IT Dept., GEC Gandhinagar)

Abstract

In this technologically advanced 21st century Machine learning has already become a big part of our lives as end users we are using this technology every single day . From our YouTube video recommendations to the classic "ok google" commands we are surrounded with ML and its products so it's time we get started with ML ourselves.

Memories

The screenshot displays a Google Meet interface during a webinar. The main content is a presentation slide with the following text: "BABY STEPS IN MACHINE LEARNING THROUGH GOOGLE COLAB" in large blue letters, followed by "PRESENTED BY: PROF. KOMAL D. ANADKAT I.T. DEPARTMENT". To the right of the text is a graphic of a human head with various machine learning icons (gears, brain, eye, etc.) connected to it. The meeting controls at the bottom show a microphone icon, a mute button, a video off button, and a "Turn on captions" button. A notification bubble says "Ukani Chetan joined". On the right side, the "Meeting details" panel shows a list of 30 participants, including FAIZAN KOTHARIYA, Gohil Kuldeepsinh, Kaumil Patel, Kishan Karena, komal anadkat, komal anadkat (Presentation), MOHAMMADKAIF SAIYED, Nandit shah, Nigam Patel, and Sanskruti Ghelani. The Windows taskbar at the bottom shows the time as 16:37 on 04-07-2020.

COLAB_NOTEBOOKS - Google D... Meet - ztn-ezgd-zcz

meet.google.com/ztn-ezgd-zcz

The Middle East ne... New folder How Does the U.S... Google Israel's Nuclear Pro... Preventing a nuclea... Iran nuclear crisis: S... Code_101

komal anadkat is presenting Nandit shah and 30 more 4:40 PM You

CONTENTS

- Introduction
- Applications
- Machine learning / Deep learning
- Supervised and Unsupervised Learning

Turn on captions komal anadkat is presenting

COLAB_NOTEBOOKS - Google D... Meet - ztn-ezgd-zcz

meet.google.com/ztn-ezgd-zcz

The Middle East ne... New folder How Does the U.S... Google Israel's Nuclear Pro... Preventing a nuclea... Iran nuclear crisis: S... Code_101

komal anadkat is presenting Parth Vakil and 30 more 4:45 PM You

INTRODUCTION

- Learning is any process by which a system improves performance from experience.” - Herbert Simon
- “Machine Learning is concerned with computer programs that automatically improve their performance through experience. “

meet.google.com is sharing your screen and audio. Stop sharing Hide

Activate Windows Go to Settings to activate Windows.

COLAB_NOTEBOOKS - Google D... Meet - ztn-ezgd-zcz

meet.google.com/ztn-ezgd-zcz

The Middle East ne... New folder How Does the U.S... Google Israel's Nuclear Pro... Preventing a nuclea... Iran nuclear crisis: S... Code_101

komal anadkat is presenting Dhvani Patel and 32 more 4:50 PM You

Artificial Intelligence
Any technique that enables computers to mimic human intelligence, using logic, if-then rules, decision trees, and machine learning (including deep learning)

Machine Learning
A subset of AI that includes abstruse statistical techniques that enable machines to improve at tasks with experience. The category includes deep learning

Deep Learning
The subset of machine learning composed of algorithms that permit software to train itself to perform tasks, like speech and image recognition, by exposing multilayered neural networks to vast amounts of data.

meet.google.com is sharing your screen and audio. Stop sharing Hide

Activate Windows Go to Settings to activate Windows.

COLAB_NOTEBOOKS - Google D... Meet - ztn-ezgd-zcz

meet.google.com/ztn-ezgd-zcz

The Middle East ne... New folder How Does the U.S... Google Israel's Nuclear Pro... Preventing a nuclea... Iran nuclear crisis: S... Code_101 Other bookmarks

komal anadkat is presenting

SUPERVISED LEARNING

The diagram illustrates the supervised learning workflow. It starts with 'Input Raw Data' (represented by a cluster of multi-colored dots). This data is split into a 'Training Data set' and a 'Tested Data set'. The 'Training Data set' is used to train an 'Algorithm' (represented by a person icon). The 'Tested Data set' is used to evaluate the 'Algorithm'. The output of the 'Algorithm' is 'Processing' (represented by gears), which leads to the final 'Output' (represented by three distinct clusters of colored dots). A 'Supervisor' icon is shown at the top, indicating human oversight.

Meeting details

People (35) Chat

- Setu Patel
- Shreya Bhat
- shweta patel
- Smit Patel
- Tarang Viroja
- TWINKAL CHRISTIAN
- Ukani Chetan
- Vadhel Kashyap
- Viral Prajapati

Activate Windows
Go to Settings to activate Windows.

COLAB_NOTEBOOKS - Google D... Meet - ztn-ezgd-zcz

meet.google.com/ztn-ezgd-zcz

The Middle East ne... New folder How Does the U.S... Google Israel's Nuclear Pro... Preventing a nuclea... Iran nuclear crisis: S... Code_101 Other bookmarks

komal anadkat is presenting

Tarang Viroja and 30 more

5:13 PM

UNSUPERVISED LEARNING

- When we have unclassified and unlabeled data, the system attempts to uncover patterns from the data. There is no label or target given for the examples. One common task is to group similar examples together called clustering.

The diagram illustrates the unsupervised learning workflow. It starts with 'Input Raw Data' (represented by a cluster of multi-colored dots). This data goes through 'Interpretation' (represented by a person icon) and 'Learning Algorithm' (represented by a gear icon). The process is characterized by 'Unknown Output' and 'No Training Data Set'. The output of the 'Learning Algorithm' is 'Processing' (represented by gears), which leads to the final 'Output' (represented by three distinct clusters of colored dots).

Windows Taskbar: Type here to search, 17:13, 04-07-2020



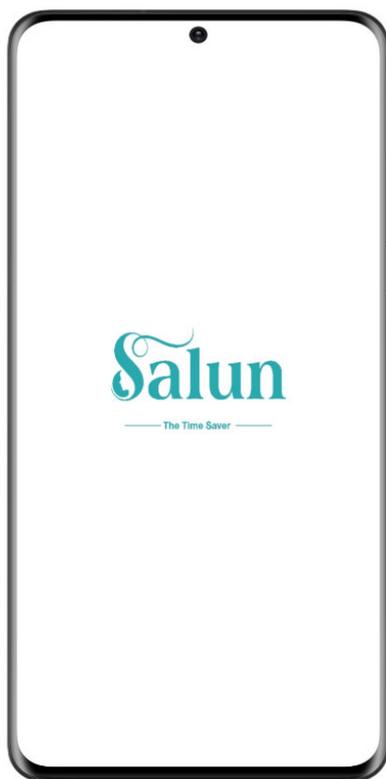
Creative Collage made by Final year students of IT Department

Innovation

In this pandemic situation of COVID-19, two final year students of IT department made an application that will be useful.

They made salon booking app in that anyone can book appointments in his/her own favourite salon, spa, beauty parlour etc. in few simple steps.

1) **Salun Business App**



Salun Business

Salon/ Beauty Parlour/ Spa owners can add and manage various kinds of facilities, services etc.

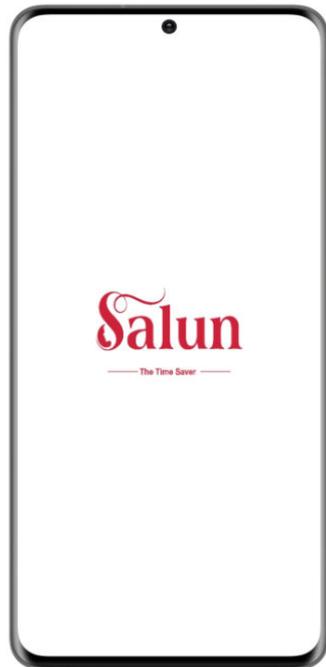
Using this app they can receive appointments from customers.



Download Link:

<https://play.google.com/store/apps/details?id=com.salun.business>

2) Salun User App



Salun User

Good news for all.
Now Anyone can book appointments in their favourite salon in few simple steps.

Using this app now you can book appointments for hair cut, facial, massage and many more services.



Download Link:

<https://play.google.com/store/apps/details?id=com.salun.user>

Developers:



Pankti Sugandhi

Batch 2017 to 2020
IT Department,
GEC, Gandhinagar



Chirag Ramchandane

Batch 2017 to 2020
IT Department,
GEC, Gandhinagar

Entrepreneurs

As per stated in mission of our department that to support research culture, consultancy work and enhancement of entrepreneurship skills.

Four students of our department founded their own digital firm named "VAM5" as an innovation driven technology company.

They provide services such as Web Design and Development, App Development, Graphic Designing etc.



<https://in.linkedin.com/company/vam5>

<https://www.instagram.com/vamfive101>

vamfiveld@gmail.com

Team:



Chirag Ramchandane

Co-Founder
Batch 2017 to 2020, IT Department,
GEC, Gandhinagar



Dhruv Solanki

Co-Founder
Batch 2016 to 2020, CE Department,
GEC, Gandhinagar



Hemant Solanki

Web Developer
Batch 2016 to 2020, CE Department,
GEC, Gandhinagar



Jeet Ambaliya

App Developer
Batch 2018 to 2021, IT Department,
GEC, Gandhinagar

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Placement Activities

Placement Statistics

11+

On-campus
companies

10+

Off-campus
companies

23+*

Students
Placed

Placed Students

Sr.	Enrollment no.	Name of Student	Name of Company
1	160130116001	AGRAVAT SHRUTAM	Tatvasoft
2	160130116010	GABANI DENILKUMAR	IBM
3	160130116014	HARDIKKUMAR PRAJAPATI	silver touch tech lab
4	160130116019	KHATRI PALAK AJITSINGH	Zignuts Technolab
5	160130116020	KUNPARA RAJESHVARIBEN	TCS
6	160130116032	MULANI RONAK GUNVANTBHAI	Capgemini
7	160130116039	PANCHAL SACHINKUMAR K	Mavenvista
8	160130116054	SANKALA VISHWARAJ	Zeus Learning
9	160130116055	SATAPARA ABHISHEK R	Tatvasoft
10	160130116056	SAVALIYA HIRENKUMAR B	ezDI
11	160130116058	SOJITRA DAIVIK	Capgemini
12	160130116061	YADAV PARTH	Infostretch
13	170133116003	DHANGAR MAYUR PUNDLIK	Gdev Technologies
14	170133116005	JOSHI ANJALI PRAKASH KUMAR	KiwiQA Services
15	170133116019	SHAH JAINI KALPESHKUMAR	Neosoft Technologies
16	170133116022	SUGANDHI PANKTI UMESHKUMAR	Synersense.pvt.ltd

*Other students are placed in Placement fair or Off-Campus

Placement Team

Faculty Coordinators

- Prof. Chetan Kapadiya (IT Department)
- Prof. Pratik Barot (CE Department)

Student Coordinators

- Hemant Solanki (CE Department)
- Chirag Ramchandane (IT Department)
- Kanan Yagnik (CE Department)
- Chirag Patel (IT Department)

Student Co-Coordiators

- Pankti Sugandhi (IT Department)
 - Jaini Shah (IT Department)
-

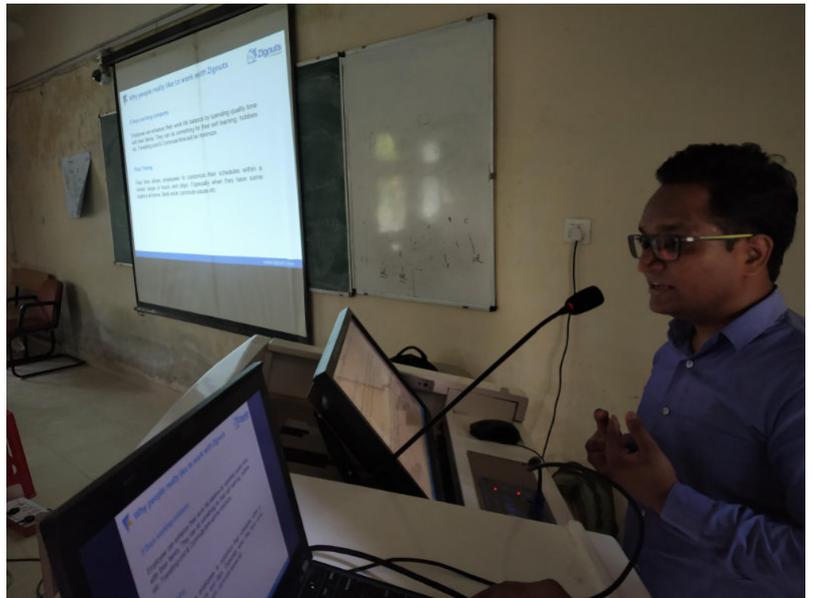
Companies



Memories



















Information Technology Department

“ Stay Dynamic, Stay Ahead ”



Dr. D. A. Parikh

Head of Department



Prof. J. S. Dhobi

Associate Professor



Newsletter Designed by

Chirag Ramchandane

Co-Founder at VAM5
2020 Passout, IT Department,
GEC, Gandhinagar

Special Thanks to



Dr. Shweta Dave

Principal, GEC Gandhinagar



Prof. B. V. Buddhadev

Ex Head of CE Department

Also grateful to all faculties of IT Dept.



Prof. Mahendrakumar Patel

Assistant Professor



Prof. Komal Anadkat

Assistant Professor



Prof. Sureshkumar Patel

Assistant Professor



Prof. Hetal Chauhan

Assistant Professor



Prof. Chetan Kapadiya

Assistant Professor



Prof. Prashant Chaudhari

Assistant Professor



Prof. Anamika Mittal

Assistant Professor



Government Engineering College
Gadchinkar

TOBACCO IS INJURIOUS
FOR HEALTH

GOVERNMENT ENGINEERING COLLEGE, GADCHINIKAR
VISION
To be a premier engineering institution, imparting quality education for
innovative solutions, committed to society and environment.
MISSION
To develop human potential in its domain, to meet the intellectual and
technical requirements of the industry and society. To impart knowledge and develop
innovative solutions, committed to society and environment. To provide quality
education to all students who are interested in engineering and technology.



GOVERNMENT ENGINEERING COLLEGE, GANDHINAGAR

VISION

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

