Aug-Oct 2021

Vol.10 Iss.1

Government Polytechnic Jamnagar PRAGYAAN

Computer Department

Major Highlights of The Issue

> :Editor: Payal V. Patel

:Students Team: Hetvi Godhani Nishchay Gohel Niray Gohel Teaching Activities at Computer Engg. Department

HE HERING

Webinar on How to be an Entrepreneur By Mr. Chintan Vaghela Vision Mission PEOs PSOs of Computer Dept

Teacher's Day Celebration in Computer Engg. Department

WEBSITE: http://www.gpjm.cteguj.in/programs/detail/205



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WEBSITE: http://www.gpjm.cteguj.in/programs/detail/205

FROM THE DESK OF HEAD OF DEPARTMENT

It is a pleasure to head the department of Computer Engineering Branch. Computers have become an inherent part of our routine life. No department or business can be thought of being fully functional and automated without the use of computers.

Computer engineering helps students widen their creative horizon and provide solutions to the problems people haven't thought about yet.

Our department provides a platform for the students to enhance their employability skill which helps us in achieving our objective of preparing students for a successful career.





Vision of the Dept

To become a centre of excellence and generate competent professionals in the field of computer engineering for the betterment of the nation and society at large.

PEOs

PEO1: Pursue higher education in engineering to enhance knowledge and skills gained in diploma.

PEO2: Develop career as professional in software industry, networking, database administration etc.

PEO3: Develop innovative and entrepreneurial attitude in order to start an enterprise.

Mission of the Dept

M1:To inculcate into students practical skills.

M2:To facilitate students with suitable environment to develop their logical and analytical skills

M3:To make available modern technology and related tools for hands-on experience.

M4:To inculcate interpersonal skills and ethical values into the students so that they can become successful professionals.

PSOs

PSO1: Able to develop computer software such as web applications and desktop applications using appropriate tools.

TEACHING ACTIVITIES AT GLANCE

From 23rd August onwards MID examination were held in semester 5. The offline examination was successfully completed.

In Sep Re-MID examination was held in semester 5. The offline examination was successfully completed.

Newly admitted student's first round of admission was effectively completed, so in 1st semester Induction Program was started from Date:28/09/2021.

In one week Induction Program Seminar on "Computer Literacy" and "Scope of the branch" was organised in Computer Department, Government Polytechnic, Jamnagar on 29th Sep 2021. 80 students had participated in this event from first year Computer Department.

To create awareness among newly admitted students about the scope of their subject in the professional world we had invited our Alumni Member Mr. Shivang Das to share his expertise with the students. He was one of our former student from Batch 2016. He is studying his B. E. in Computer Science and Engineering. He is stuyding in final year from Dehradun.

Welcome Speech is given by Shri. J. V. Shaparia. After that, seminar was given by our Alumni Member Mr. Shivang Das. He gave information about computers, software, hardware, and how they work.

The event was successfully completed. Shri. A. K. Zala, Principal and Shri. K. M. Shah, Head of the Department was guest of honour for the program. Shri. K. M. Shah motivated all the students by his speech. Alumni association faculty member of Computer Department, Ms. P. V. Patel presented vote of thanks to the participants and guests.







All the students benefited from the activity and gave an overwhelming response. We are thankful to the subject expert Mr. Shivang Das for sharing their expertise with the students.

After the completion of 1 week Induction Program Regular teaching was started from the Date: 06/10/2021.

WEBINAR

A webinar was organized in our college on the subject of "National Education Policy Celebration".

All the faculties and students benefited from the activity and gave an overwhelming response. we are thankful to all faculties, who had presented valuable content on that day.



TITLE: National Education Policy 2020 DATE: 10/08/2021 TIME: 3:00 PM PATRON: SHRI. A. K. ZALA, PRINCIPAL COORDINATOR: SHRI. DR. N. H. SHAH

SPEAKERS:

- 1. Mr. R. S. Oza (Lect. Civil)
- 2. Mr. A. M. Bhatt (Lect. EC.)
- 3. Mr. S. P. Gori (Lect. Mech.)
- 4. Mr. A. N. Joisar (Lect. Chemistry)
- 5. Dr. N. H. Shah (Lect. Maths)
- 6. Mr. B. B. Chauhan (Lect. Elect.)
- 7. Mr. J. V. Shaparia (Lect. CE)

Here are some glimpses of the event:







ACHIEVEMENT

In Computer Department our student Rameshwar Ishnava selected in Lynkit company with 1.44 Annually package, work in Aaditya Birla Group of company (HINALCO), as a software engineer. Congratulations to Computer Department & Mr. Jignesh Sapariya sir to continue afford for this new company.



09/08/2021

Offer of Employment

Dear Rameshwar Ishnava,

Congratulations! We are pleased to extend this offer of employment for the position of Technical Support Executive with Lynkit Solutions Private Limited.

Your start date will be 16th August 2021. As discussed, this will be a full-time position with a total annual CTC of 1.44 LPA. This position is based in Dahej, Gujarat, where you will be providing on-site support to our client, Hindalco Industries (an Aditya Birla Group Company). The full terms and conditions of your employment will be shared with you upon request, or at the time of joining.

Please sign a copy of this letter and return it to us to indicate your acceptance of this offer no later than 11/08/2021. Please note that this offer is contingent upon the successful completion and verification of your application, including completion of a successful background check and satisfactory reference checks.

Please feel free to contact us via email or phone if you have any questions.

We look forward to you joining us at Lynkit!

Best regards,



Chief Operating Officer

I accept this offer as outlined above.

Name: Rameshwar Ishnava

Date: Aug 10, 2021

Sign: Rameshwar Ishnava

W-39 Okhla Phase II, New Delhi 110020 +91 11-4082 4028 / E: contact@lynkit.in

www.lynkit.in

WEBINAR

A student chapter of Indian Society of Technical Education (ISTE) has been started at Government Polytechnic, Jamnagar for the holistic development of students.

A webinar was organized on Date:7/8/2021 in our college on the subject of "Energy Conservation in Routine Life". This webinar was organized by ISTE Student Chapter in Assosiation with Department of Electrical Engineering.

All the students benefited from the activity and gave an overwhelming response.

After the completion of the webinar quiz competition was organized. Total 142 students had participated in the quiz competition on "Energy Conservation Technique".

📥 Result:

1st place:

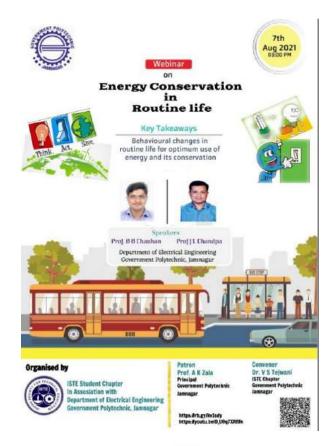
Karena Hiren Pola, 19250306039, branch:Civil, Points: 14793 2nd place:

> Bumtariya Krupa K. 206250306011, branch: Civil, points: 14437

3rd place:

Tank Ayush S. 206250307024, branch: Computer, points: 12991

Congratulations to the TEAM ISTE Student Chapter for organizing an excellent quiz and congratulations to all the winners.



We are thankful to the subject experts for conducting the webinar and share their expertise with us.

Slogan competition was organized for faculties and students. From the Faculties, Mr. Chetan Ajudiya, from the Computer Department got the 1st rank and Ms. Payal V. Patel, from the Computer Department got the 3rd rank.

WEBINAR

A webinar was organized on Date:12/08/2021 in our college on the subject of "How to be an Entrepreneur". This webinar was organized by SSIP Cell.

We are thankful to the subject expert for conducting the webinar and share his expertise with the students.



TITLE: HOW TO BE AN ENTREPRENEUR DATE: 12/08/2021 TIME: 03:00 PM TO 4:30 PM PATRON: SHRI. A. K. ZALA, PRINCIPAL

VENUE: ONLINE MS TEAMS

EXPERT SPEAKER:

SHRI. CHINTAN VAGHELA

Proprietor, Hippogreen Electronics, Ahmedabad

ORGANIZED BY:

SSIP CELL,

GOVERNMENT POLYTECHNIC, JAMNAGAR







FINISHING SCHOOL

For personality development finishing school is arranged at institute. The Focus of this activity is to enhance self-confidence and self-awareness, life goal setting, observation and concentration skill, self-discipline and commitment, stress management, decision making and critical thinking, interpersonal skills, grooming persona hygiene, time management etc. Session is framed for each skill development which help students to improve their personality as well as employability. Specialized trainers are called for achieving the target at its best.

Finishing School classes were started from Wednesday, 22nd of July, 2021. In this Finishing School Program 11 Students had participated from the 5th Semester Computer Department.

| | Finishing School Online Training Schedule Government Polytechnic, Jamnagar | | | | | | |
|-------------------------------------|---|---|---|---------|--|--|--|
| Name of Trainer: Ms. Pooja Raval | | | | | | | |
| Batch No. & Set Date of Training | | Batch - 1 (Set - B) 17-08-2021 to 27-08-2021 | | | | | |
| | | | | | | | |
| Sr. No. | Date & Day | Time | Name of Topic | Hours | | | |
| 1 | 17-08-2021 Day 1 | 07.15 a.m. to 09.15 a.m. | Self-Introduction and Introducing others | 2 hours | | | |
| 2 | 18-08-2021 Day 2 | 07.15 a.m. to 09.15 a.m. | Nouns and Pronouns | 2 hours | | | |
| 3 | 19-08-2021 Day 3 | 07.15 a.m. to 09.15 a.m. | Describing Words | 2 hours | | | |
| 4 | 20-08-2021 Day 4 | 07.15 a.m. to 09.15 a.m. | Vocabulary Building | 2 hours | | | |
| 5 | 21-08-2021 Day 5 | 07.15 a.m. to 09.15 a.m. | Verbs Part-1 | 2 hours | | | |
| 6 | 23-08-2021 Day 6 | 07.15 a.m. to 09.15 a.m. | Tenses Part-I | 2 hours | | | |
| 2 | 24-08-2021 Day 7 | 07.15 a.m. to 09.15 a.m. | Prepositions | 2 hours | | | |
| 8 | 25-08-2021 Day 8 | 07.15 a.m. to 09.15 a.m. | Conjunctions and Connectors | 2 hours | | | |
| 9 | 26-08-2021 Day 9 | 07.15 n.m. to 09.15 n.m. | Framing it Right | 2 hours | | | |
| 10 | 27-08-2021 Duy 10 | 07.15 a.m. to 09.15 a.m. | Telephone and Email Etiquette Part-1 | 2 hours | | | |

Name of Trainer: Ms. Pooja Raval

Date of Training: 17-08-2021 to 27-08-2021

Total Days: 10

Total Hours: 20

INDEPENDENCE DAY CELEBRATION

Independence Day annually is observed on 15 August as a national holiday in commemorating nation's India the independence from the British Empire on 15 August 1947. India attained independence following an Independence Movement noted for largely nonviolent resistance and civil disobedience led by the Indian National Congress. Independence Day is observed India throughout with flag-hoisting ceremonies, parades and cultural events.

75th Independence Day was celebrated at Government Polytechnic Jamnagar on 15th August 2021.

> GOVERNMENT POLYTECHNIC, JAMNAGAR. (Under commissionerate of Technical Education, Gujarat state) सरडारी पोलिटेडजिङ, आमनगर.

> > Varianchinel Port, Pedl Lorengia, Miller) Huser (2000)755570 mail: generation (Variance) estRiv-5270272021

.มู่ดินส.-

พิศักร์และ พพพ.สมสตรงกา ระนิธรณปิชา/454/นโร้นต/2021/

આશી આ સરચાના દરેક અધિકારી/કર્મચારી તથા વિદ્યાર્થીએને જણાવવાનું કે આગામી સ્વતંત્રતા દિન તા.૧૫મી ઓગસ્ટ ૨૦૨૧ના રોજ સંસ્થાના પક્ષંગણમાં ધ્વજવંદનનો કાર્યક્રમ રામેલ છે તો દરેકે સમયસર અચૂક કોજર રહેવા જણાવવામાં આવે છે.

વધુમાં ઠાલ ગ્રેરોના (Cpviet-39) સંક્રમણને ધ્યાને લેતા સદર કાર્યક્રમમાં ઉપસ્થિતિ અંગે તમામ સ્ટાક તથા વિદ્યાર્થીઓએ સરકારશ્રી ક્ષરા Canic-19ના નિયંત્રણ અંગે વખતોવખત બહાર પાડેલ ગાઇડલાઇનનું અચુક પાલન કરવાનું રહેશે.

તારીબ ૧૫મી એઝસ્ટ ૨૦૨૧ સમઘ: સમય સવારે ૦૯ કલાકે સ્થળ: સરકારી પોલીટેકનીક, જામનગર કેમ્પસ

> આચાર્ચ સરકારી પોલીટેકનીક જામનગર

નકલ: સિવિલ/મિકેનીકલ/ઝલેસ્ટ્રીકલ/એપ્લાઇડ/જનરલ/ઇમી/સીઇ/ઓડીસ વિભાગના વડાને જાણ સારૂ તથા તાબાના અપિકારી/કર્મચારીને જાણ કરવા સારૂ (ઇ-મેઇલ ઘ્રસ) નકલ: જીમખાના વિભાગના વડાને જણ તથા સદર કાર્યક્રમની પૂલેતેચારી કરવા સારૂ.

मडल जोटिस जोर्ड पर विद्यार्थीओने ऋष तथा श्रंभर रहेवा साउ





TITLE: INDEPENDENCE DAY CELEBRATION

DATE: 15/08/2021 TIME: 09:00 AM

PATRON: SHRI. A. K. ZALA, PRINCIPAL

ORGANIZED BY: GOVERNMENT POLYTECHNIC, JAMNAGAR

Some glimpses of the event:









DHARMENDRASINH JADEJA

VISIT AT COLLEGE

Dharmendrasinh Merubha Jadeja known as Hakubha Jadeja he is BJP MLA of Jamnagar North-78.

Hakubha's areas of special legislative interest have been in support for working families, public education, health care, Social & Religious Activity, economic growth and jobs creation as well as maximum works for public interest & local support.

He had visited Government Polytechnic Jamnagar on Date: 27/08/2021 for three functions viz first ANUBANDHAM" A New Umbrella for Bridging Aspirant's Needs through Direct Hiring between job Applicants & eMployers., registration of students in this app, secondly RTPCR testing of students and 3rd was farewell of his near and dear friend Mr. Murima from the college.



Some glimpses of the event:



TEACHER'S DAY CELEBRATION

In India, Teachers' Day is celebrated annually on September 5 to mark the birthday of the country's former President, scholar, philosopher and Bharat Ratna awardee, Dr Sarvepalli Radhakrishnan, who was born on this day in 1888.

Every year 5th September is celebrated as the teacher's day, where students schedule different lectures/labs and conduct the same.

TITLE: TEACHER'S DAY CELEBRATION 2021

DATE: 04/09/2021 TIME: 2:00 PM to 5:30 PM CONDUCTED BY: STUDENTS PATRON: SHRI. A. K. ZALA, PRINCIPAL COORDINATOR: SHRI. J. V. SAPARIYA ORGANIZED BY: COMPUTER DEPARTMENT, GOVERNMENT POLYTECHNIC, JAMNAGAR

Some glimpses of the event:

























125th BIRTH ANNIVERSARY OF ZAVERCHAND MEGHANI

On the occasion of 125th birth anniversary of Zaverchand Meghani, a Gujarati poet and social reformer, Chief Minister Vijay Rupani on Saturday allocated Rs 5 crore for building a museum at his birthplace, Chotila in Surendrnagar district.

In poetry singing competition, our 3rd sem student Neha Zala got the 1st prize in 125th Birth anniversary celebration of Jhaverchand Meghani.

TITLE:125thBIRTHANNIVERSARYOFZAVERCHANDMEGHANI,POETRYRECITATION COMPETITION

GOVERNME WAGAR

DATE: 01/09/2021

TIME: 3:00 PM

PATRON: SHRI. A. K. ZALA, PRINCIPAL

ORGANIZED BY: GOVERNMENT POLYTECHNIC, JAMNAGAR

Glimpse of celebration at Government Polytechnic, Jamnagar:





SOME GLIMPSES OF THE EVENTS

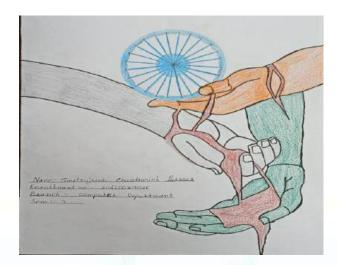
1. Guidance on 108 Abhayam Women Helpline Date: 2/9/2021







2. Azadi ka Amrut Mahotsav, Painting Competition Date: 27/9/2021









3. Webinar on ISTE Activities Awareness Program Date: 16/10/2021







4. ISTE Diwali Festival Date: 26/10/2021 to 28/10/2021





Government Polytechnic Jamnagar celebrating the

Diwali Celebration

As a part of this celebration











5. Personality Development Program Date: 25/10/2021 to 28/10/2021











Personality Development Program for SC/ST Students







6. Azadi ka Amrut Mahotsav, Plastic Free Campus Date: 29/10/2021











7. Fire & Safety Awareness Programme Date: 29/10/2021

















WEBINAR

A webinar was organized on "PYTHON PROGRAMMING" as a part of the ongoing cocurricular activities. Around 113 students has participated in this event.

The presentation covered the latest trends in the above-mentioned subject in the field of computer engineering which provided students with highly required skills and knowledge for the advancement of their career. All the students benefited from the activity and gave an overwhelming response.



TITLE: PYTHON PROGRAMMING

DATE: 23/09/2021

TIME: 02:00 PM

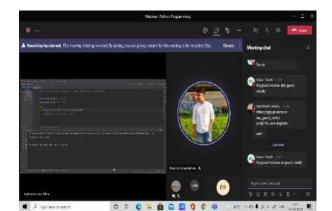
CONVENER: SHRI. R. K. BORSANIYA, LECTURER IN EC DEPARTMENT

COORDINATOR: SHRI. C. C. KAMANI, LECTURER IN COMPUTER DEPARTMENT

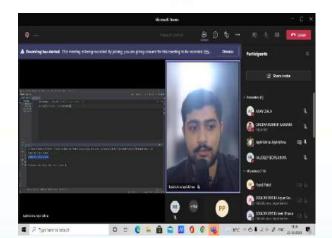
PATRON: SHRI. A. K. ZALA, PRINCIPAL

ORGANIZED BY: COMPUTER DEPARTMENT, GOVERNMENT POLYTECHNIC, JAMNAGAR

We are thankful to the subject expert Mr. Jaykrishna Gadhvi for conducting the webinar and share their expertise with the students.

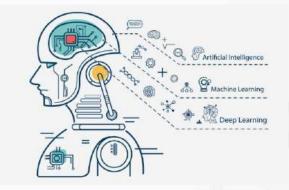


> Some glimpse of the event:





What is Machine Learning?



Machine learning (ML) is a type of artificial intelligence (AI) that allows software applications to become more accurate at predicting outcomes without being explicitly programmed to do so. Machine learning algorithms use historical data as input to predict new output values.

Recommendation engines are a common use for machine learning. Other popular uses include fraud detection, spam filtering, malware threat detection, business process automation and predictive maintenance.

Why is machine learning important?



Machine learning is important because it gives enterprises a view of trends in customer behavior and business operational patterns, as well as supports the development of new products. Many of today's leading companies, such as Facebook, Google and Uber, make machine learning a central part of their operations. Machine learning has become a significant competitive differentiator for many companies.

77% of devices that we presently use are utilizing ML presently



Machine Learning (ML) is a well-known innovation that nearly everyone knows about. A study uncovers that 77% of devices that we presently use are utilizing ML. From a social event of SMART devices over Netflix proposition through products like Amazon's Alexa, and Google Home, artificial intelligence services are proclaiming cutting-edge innovative solutions for organizations and regular day to day existences. The year 2021 is ready to observe some significant ML and Al trends that would maybe reshape our economic, social and industrial workings.

As of now, the AI-ML industry is developing at a quick rate and gives sufficient advancement scope to companies to bring the vital change. According to Gartner, around 37% of all companies reviewed are utilizing some type of ML in their business and it is anticipated that around 80% of modern advances will be founded on AI and ML by 2022.

Throughout recent years, there have been a few discoveries in machine learning and AI. Notwithstanding, a couple of organizations have so far been able to apply those to accomplish the essential business objectives.

With the surge in demand and interest in these technologies, various new patterns are ascending during this space. Simply if you're a tech capable or related to innovation in some capacity, it's exciting to see what's next inside the space of machine learning.

Machine Learning in Hyper Automation



Hyper automation, and IT mega-trend identified by Gartner, is the possibility that almost anything inside a company that can be automated. for example, legacy business processes should be automated. The pandemic has boosted the adoption of the concept, which is otherwise called digital process automation" and "intelligent process automation." Machine learning and artificial intelligence are key segments and significant drivers of hyper automation (alongside different innovations like process automation tools). To be effective, hyper automation activities can't depend on static packaged software. Automated business processes must have been able to adapt to changing conditions and react to sudden circumstances.

How machine learning works



UC Berkeley breaks out the learning system of a machine learning algorithm into three main parts.

- A Decision Process: In general, machine learning algorithms are used to make a prediction or classification. Based on some input data, which can be labelled or unlabelled, your algorithm will produce an estimate about a pattern in the data.
- 2. An Error Function: An error function serves to evaluate the prediction of the model. If there are known examples, an error function can make a comparison to assess the accuracy of the model.

3. A Model Optimization Process: If the model can fit better to the data points in the training set, then weights are adjusted to reduce the discrepancy between the known example and the model estimate. The algorithm will repeat this evaluate and optimize process, updating weights autonomously until a threshold of accuracy has been met.

Machine learning methods

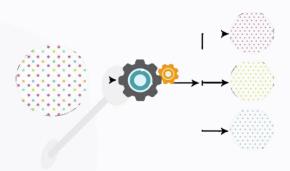
Machine learning classifiers fall into three primary categories.

Supervised machine learning



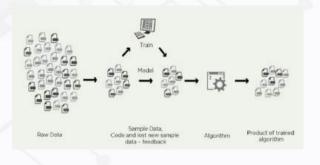
Supervised learning, also known as supervised machine learning, is defined by its use of labeled datasets to train algorithms that to classify data or predict outcomes accurately. As input data is fed into the model, it adjusts its weights until the model has been fitted appropriately. This occurs as part of the crossvalidation process to ensure that the model avoids overfitting or underfitting. Supervised learning helps organizations solve for a variety of real-world problems at scale, such as classifying spam in a separate folder from your inbox. Some methods used in supervised learning include neural networks, naïve bayes, linear regression, logistic regression, random forest, support vector machine (SVM) and more.

Unsupervised machine learning

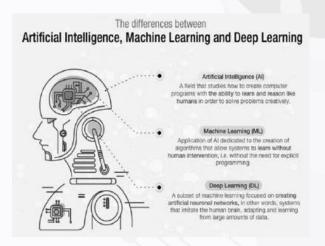


Unsupervised learning, also known as unsupervised machine learning, uses machine learning algorithms to analyze and cluster unlabeled datasets. These algorithms discover hidden patterns or data groupings without the need for human intervention. Its ability to discover similarities and differences in information make it the ideal solution for exploratory data analysis, cross-selling strategies, customer segmentation, image and pattern recognition. It's also used to reduce the number of features in a model through the process of dimensionality reduction; principal component analysis (PCA) and singular value decomposition (SVD) are two common approaches for this. Other algorithms used in unsupervised learning include neural networks, k-means clustering, probabilistic clustering methods, and more.

Semi-supervised learning



Semi-supervised learning offers a happy medium between supervised and unsupervised learning. During training, it uses a smaller labeled data set to guide classification and feature extraction from a larger, unlabeled data set. Semi-supervised learning can solve the problem of having not enough labeled data (or not being able to afford to label enough data) to train a supervised learning algorithm.



Edited and compiled by:

- 1. HETVI GODHANI Sem 5, Computer Dept.
- NISHCHAY GOHEL Sem 5, Computer Dept.
- NIRAV GOHEL Sem 5, Computer Dept.

WEBINAR

For the purpose of getting detailed understanding of NBA a webinar has been organized on "Discussion on NBA" at the Institute Level. This webinar was organised on 8th September 2021.

TITLE: DISCUSSION ON NBA

DATE: 08/09/2021 TIME: 3:30 PM

ROOM NO. : 208, New Building

> Some glimpse of the event:

PATRON: SHRI. A. K. ZALA, PRINCIPAL

COORDINATORS:

SHRI. S.P. GORI, LECTURER IN MECHANICAL SHRI. A. M. BHATT, HOD IN EC DEPARTMENT

ORGANIZED BY: GOVERNMENT POLYTECHNIC, JAMNAGAR







CONTACT INFORMATION

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WEBSITE:

- http://www.gpjm.cteguj.in/programs/det ail/205
- 2. https://gpjcomp.wordpress.com/

EDITOR

It is my privilege and honor as the Editor-in-chief for the newsletter of Computer Department at Government Polytechnic, Jamnagar.

The main agenda of the newsletter is to provide insights of department like academics and other activities happening at department. Some knowledge regarding current technology etc.

- Ms. PAYAL V. PATEL

