

NEWSLETTER

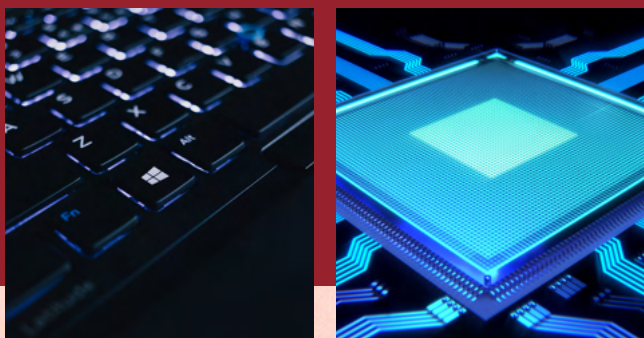


WINDOWS 4.0

THE SANGANAK

HALF YEARLY NEWSLETTER
JULY 2023 - DEC 2023

Shroff S.R. Rotary
Institute of Chemical Technology



UPL UNIVERSITY
OF
SUSTAINABLE TECHNOLOGY

DEPARTMENT OF COMPUTER ENGINEERING

WE ARE SPEAKING TECHNOLOGY EVER SINCE!

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MESSAGE FROM DESK OF HOD



MS. MITAL PATEL

I am pleased to share the 4th issue of the half yearly Newsletter "THE SANGANAK" for the academic year 2023-24 from the Department of Computer Engineering.

Our department offers various academic programs, including foundational diploma courses and, starting this academic year, a Diploma in Information & Technology. These programs extend to the specialized knowledge cultivated in our B.E. program. The remarkable achievements of our students in academics & various competitions reflect our department's unwavering dedication to excellence. Our faculty's commitment to research and innovation continues to elevate our academic environment. Emphasizing cutting-edge technologies, we are steadfast in preparing our graduates for success in the ever-evolving field of computer engineering. Furthermore, the initiatives led by the CSI Students' Chapter and GDSC club have been exceptionally noteworthy. Stay tuned for more updates as we advance on our journey of academic and technological excellence. Happy Reading!

EDITORIAL TEAM



Ms. Mital Patel
HoD(I/c)
& Assistant Professor



Ms. Anuja Gunale
Assistant Professor

We are honored to publish the fourth issue of our department's newsletter, "THE SANGANAK". This issue covers departmental activities, faculty accomplishments, student achievements, and extracurricular activities. We appreciate the support and encouragement from the Provost, Deans, Registrar, faculty/staff, and students.



Mansi Parmar
B.E. Sem-6



Vidhi Patel
B.E. Sem-6



Isha Upadhyay
B.E. Sem-6



Jigar Kayasth
B.E. Sem-6



Ayush Thumar
B.E. Sem-6



Sahil Gupta
B.E. Sem-6



Chintan Parmar
B.E. Sem-6

TEACHING STAFF



Ms. Mital Patel
HoD(I/c)
& Assistant Professor



Ms. Rupali Attarde
Assistant Professor



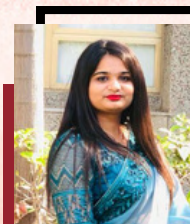
Ms. Hemangni Mehta
Assistant Professor



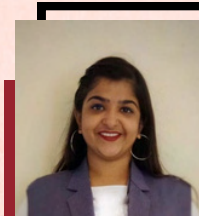
Mr. Uddyalok Chakraborty
Lecturer



Ms. Anuja Gunale
Assistant Professor



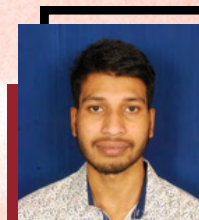
Ms. Nidhi Parmar
Lecturer



Ms. Nensi Panchal
Assistant Professor



Ms. Avani Patel
Assistant Professor



Mr. Awadh Singh
Assistant Professor



Ms. Miti Desai
Assistant Professor



Mr. Nitin Patel
Assistant Professor



Ms. Tejasvini Matieda
Lecturer

TECHNICAL STAFF



Mr. Yogesh Chaudhari
System Analyst



Mr. Tejaskumar Patel
Technical Support Engineer



Ms. Bharti Khandar
Lab Assistant



Ms. Juhi Limbhetwala
Lab Assistant



Ms. Twinkle Solanki
Lab Assistant



INAUGURATION OF DEPARTMENT OF COMPUTER ENGINEERING & INFORMATION TECHNOLOGY



18th
August
2023



At the auspicious hands of
Shri. Kanubhai Desai
Hon. Cabinet Minister

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DEPARTMENTAL ACTIVITIES



DEPARTMENTAL ACTIVITIES

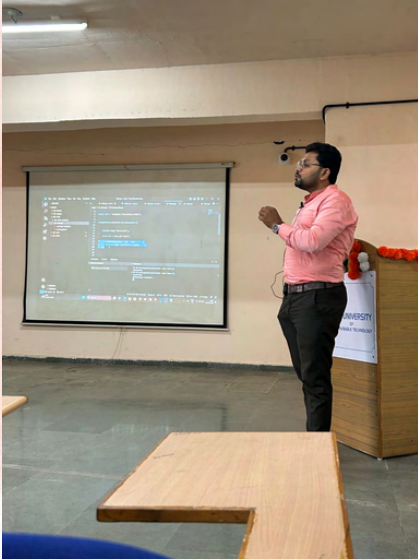
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EXPERT LECTURES

| Date | Topic Name | Speaker | Designation |
|------------|--|--------------------------|--|
| 21/07/2023 | Digital Marketing | Mr. Shahezad Bodila | Corporate Trainer, IICL, Surat |
| 06/09/2023 | Java Programming | Mr. Chintan Chovatiya | Sr. Technical Trainer, Tops Tech, Surat |
| 06/10/2023 | 3D Animation, Digital Marketing | Mr. Mitul Shah | CEO, Zica Animation Pvt Ltd, Vadodara |
| 24/07/2023 | Career Opportunities in Computer Engineering | Mr.Mrunal Shah | Academic Head, Gate Academy, Vadodara |
| 12/07/2023 | How Technologies change in the world? | Mr. Vishal Shah | CEO, Toshal Infotech, Surat |
| 26/07/2023 | E-Commerce and Digital Marketing | Mr.AyazMeman | CEO, Z Web Solution, Ankleshwar |
| 06/09/2023 | Full Stack | Mr .Chintan Chovatiya | Java Developer & Trainer in TOPS Technology, Surat |

GLIMPSE OF EXPERT LECTURES



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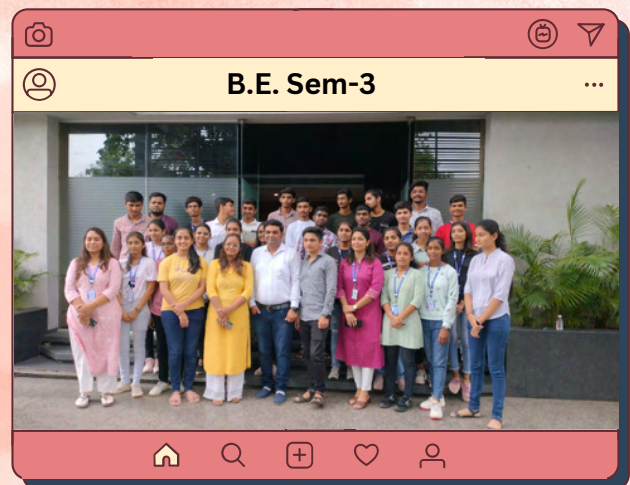
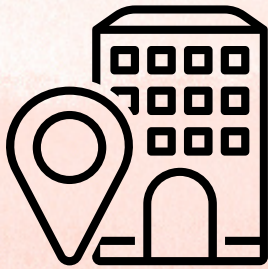
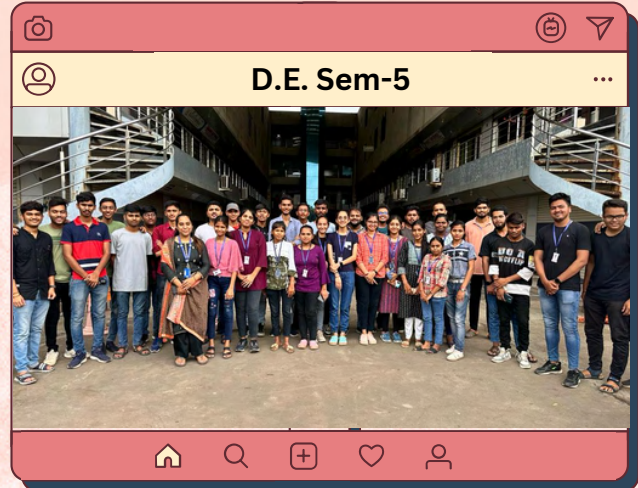
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INDUSTRIAL VISITS

| Sr No. | Date | Industry Name | Location |
|--------|------------|-------------------------|------------|
| 1 | 27/07/2023 | Techomax Solution | Bharuch |
| 2 | 17/10/2023 | Nexis Infotech | Bharuch |
| 3 | 30/10/2023 | BEIL Infrastructure Ltd | Ankleshwar |

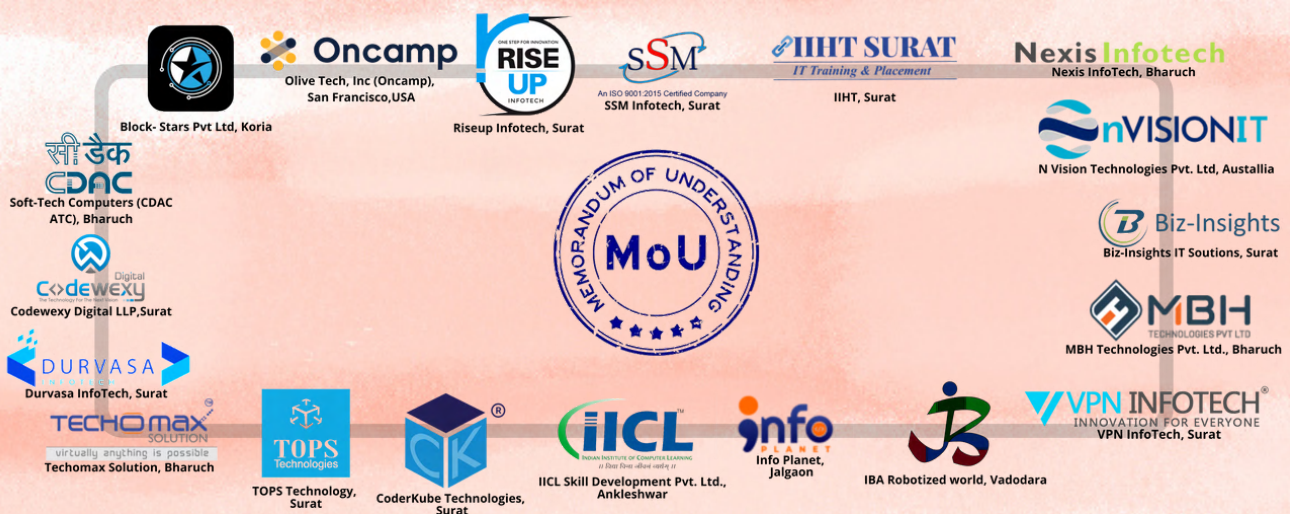
| Sr No. | Date | Industry Name | Location |
|--------|------------|----------------------------|------------|
| 1 | 28/08/2023 | Z web Solution | Ankleshwar |
| 2 | 16/10/2023 | MBH Technologies Pvt. Ltd. | Bharuch |
| 3 | 26/09/2023 | Nexis Infotech | Bharuch |

GLIMPSE OF INDUSTRIAL VISITS



MEMORANDUM OF UNDERSTANDING

| Sr. No. | Name of the collaboration centre |
|---------|--|
| 1 | Olive Tech, Inc (Oncamp), San Francisco, USA |
| 2 | Durvasa Infotech, Surat |
| 3 | Biz-Insights IT Solutions, Surat |
| 4 | Block-Stars Pvt Ltd, Korea |
| 5 | Nexis InfoTech, Bharuch |
| 6 | VPN INFOTECH, Surat |
| 7 | N Vision Technologies Ptv. Ltd., Australia |
| 8 | IICL, Ankleshwar |
| 9 | TOPS Technologies Pvt. Ltd. |
| 10 | Riseup Infotech |
| 11 | SSM Infotech Solutions Pvt. Ltd. |
| 12 | Codewexy Digital LLP, Surat |
| 13 | Soft-Tech Computers (C-DAC), Bharuch |
| 14 | Techomax Solution, Bharuch |

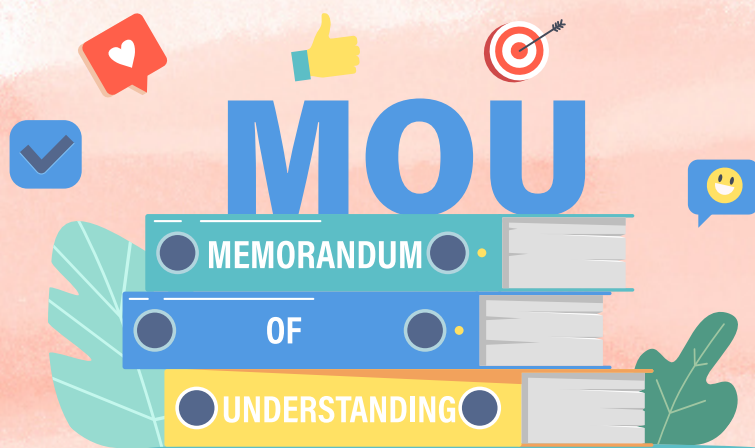


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MEMORANDUM OF UNDERSTANDING

| Sr. No. | Name of the collaboration centre |
|---------|---|
| 15 | IBA Robotized World,Vadodara |
| 16 | MBH Technologies Pvt. Ltd. |
| 17 | IIHT Surat |
| 18 | Info Planet, Jalgaon |
| 19 | CoderKube Technologies, Surat |
| 20 | Arena Animation, Bhaurch |
| 21 | Z Web Solutions, Anklehwar |
| 22 | Cybersecurity Umbrella Corp. Surat |
| 23 | August Infotech Surat |
| 24 | Trueline Solution Pvt Ltd Surat |
| 25 | Codexive Solution Surat |
| 26 | Toshal Infotech Private Limited, Surat |
| 27 | ACEIS Services Pvt. Ltd., Pune |
| 28 | D-Tech Solution Integrators Private Limited |
| 29 | ZEE Institute of Creative Art, Vadodara |



GLIMPSE OF MOU



MEMORANDUM OF UNDERSTANDING



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CSI CHAPTER



The poster features a blue and yellow color scheme with a background of a stylized building facade. At the top left is the UPL logo, and at the top right is the Rotary Anklshwar logo. The central text reads: 'Department of Computer Engineering & Information Technology Proudly announce the institutional membership of Computer Socitey of India (Surat Chapter)'. To the right is the circular logo of the Computer Society of India, established in 1965, with the motto 'सर्वे भवन्तु सुखिनः'. At the bottom, it displays 'Membership ID: M10944' and the website 'www.upluniversity.ac.in' along with social media icons for Facebook, Instagram, Twitter, and LinkedIn.

UPL
Anklshwar

UPL UNIVERSITY
OF
SUSTAINABLE TECHNOLOGY

Rotary
Anklshwar

Department of
**Computer Engineering
&
Information Technology**

Proudly announce the
institutional membership of

**Computer Socitey
of
India
(Surat Chapter)**

COMPUTER SOCIETY OF INDIA
ESTD. 1965
सर्वे भवन्तु सुखिनः

Membership ID: M10944

www.upluniversity.ac.in

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GOOGLE DEVELOPER STUDENT CLUBS (GDSC)

Being a part of GDSC (Google Developer Student Clubs), attending events like DevFest, DevX, and actively organizing sessions such as workshops and online lectures is not just a participation journey; it's a transformative experience. GDSC events serve as platforms for students to engage with cutting-edge technologies, network with like-minded individuals, and contribute to the tech community.



ORACLE ACADEMY MEMBERSHIP

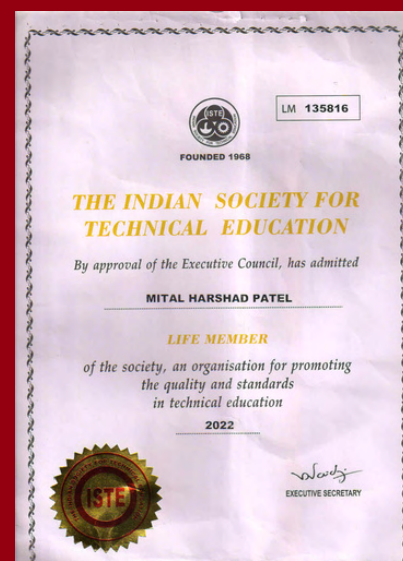
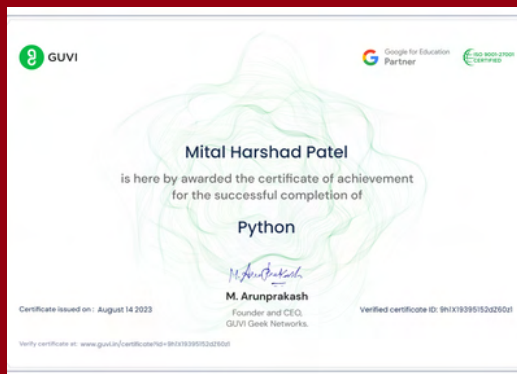


On August 28, 2023, "UPL University of Sustainable Technology" was granted membership of the Oracle academy. Respected Provost of UPL University officially signed the contract with Oracle Academy.

FACULTY ACHIEVEMENTS



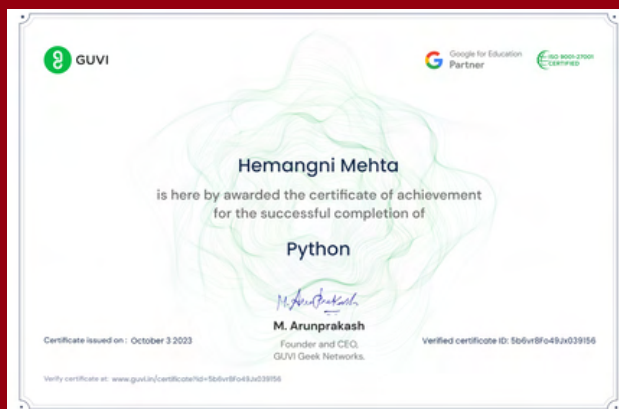
Ms. Mital Patel



FACULTY ACHIEVEMENTS



Ms. Rupali Attarde



Ms. Hemangni Mehta



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FACULTY ACHIEVEMENTS



Congratulations!!!!
for Patent Grant
on
“Router”

Patent Type:- Design
Patent Holder Details:-
• **Ms. Rupali Attarde**
Assistant Professor,
Department of Computer
Engineering,
UPL University of Sustainable Technology.

Visit Our Website
www.upluniversity.ac.in



Congratulations!!!!
for Patent Grant
on
“Robotics Hand”

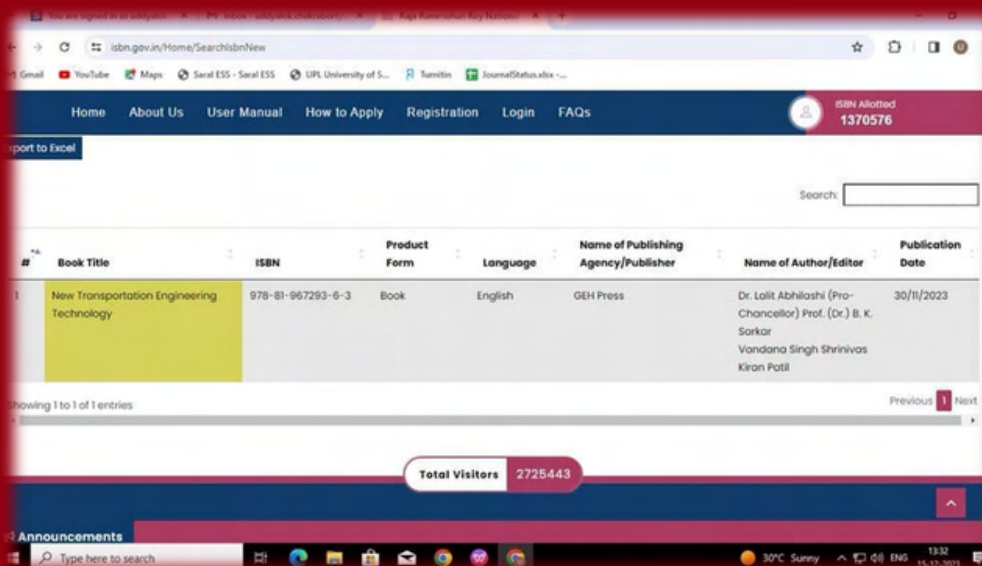
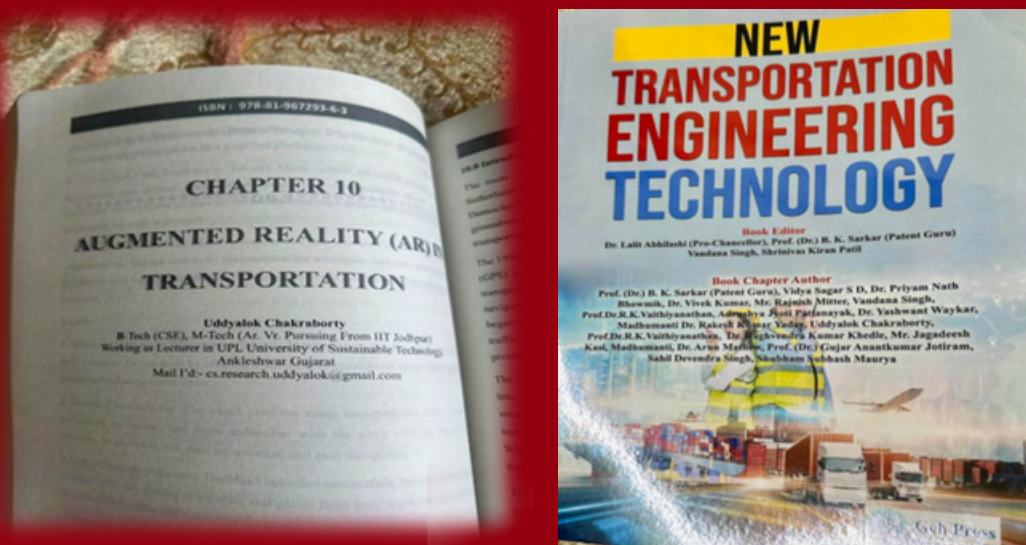
Patent Type:- Design
Patent Holder Details:-
• **Mr. Uddyalok Chakraborty**
• **Ms. Nidhi Parmar**
Lecturer, Department of Computer
Engineering, UPL University of
Sustainable Technology.

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FACULTY ACHIEVEMENTS

One of the Book Chapter published by Mr. Uddyalok Chakraborty title as "Augmented Reality in Transportation" in Book named:-New Transportation Engineering Technology by Geh Publisher bearing ISBN No:-978-81-967293-6-3.



Mr. Uddyalok Chakraborty
Lecturer

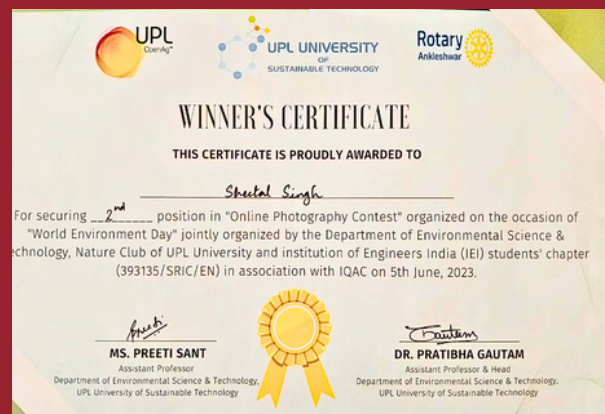
STUDENT ACHIEVEMENTS



Jeet Solanki



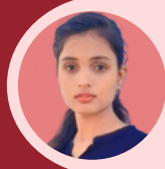
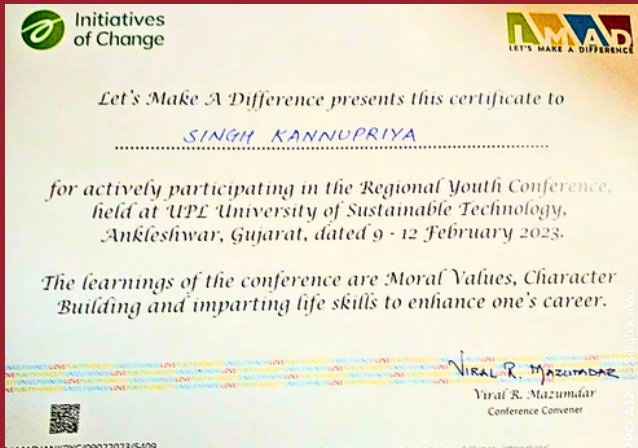
4th sem



Sheetal Singh
6th sem



STUDENT ACHIEVEMENTS



Kannupriya Singh
6th sem



Jahnavi Tiwari
6th sem

STUDENT ACHIEVEMENTS



Rana Yashkumar
4th sem



ORIENTATION

The orientation session was conducted for DE IT, CO & BE CO Sem-1 (Batch 2023) students on 01/08/2023.

The session was delivered by Ms Mital Patel along with class coordinators to give awareness regarding different Programs, Academics, University Policies, Examination, different activities conducted at campus.



DE Sem 1 IT
Class Co-ordinator: Ms Anuja Gunale

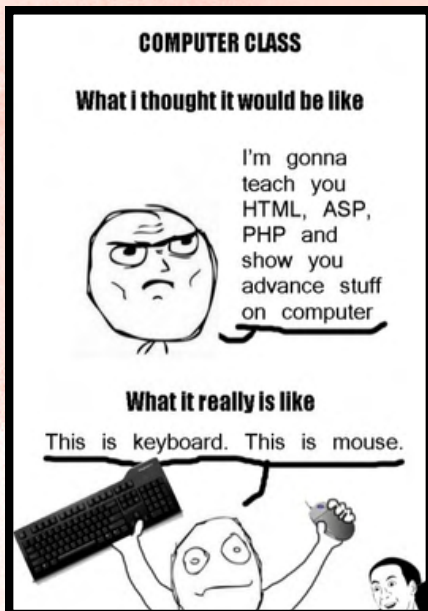


DE Sem 1 CO
Class Co-ordinator: Ms Nidhi Parmar



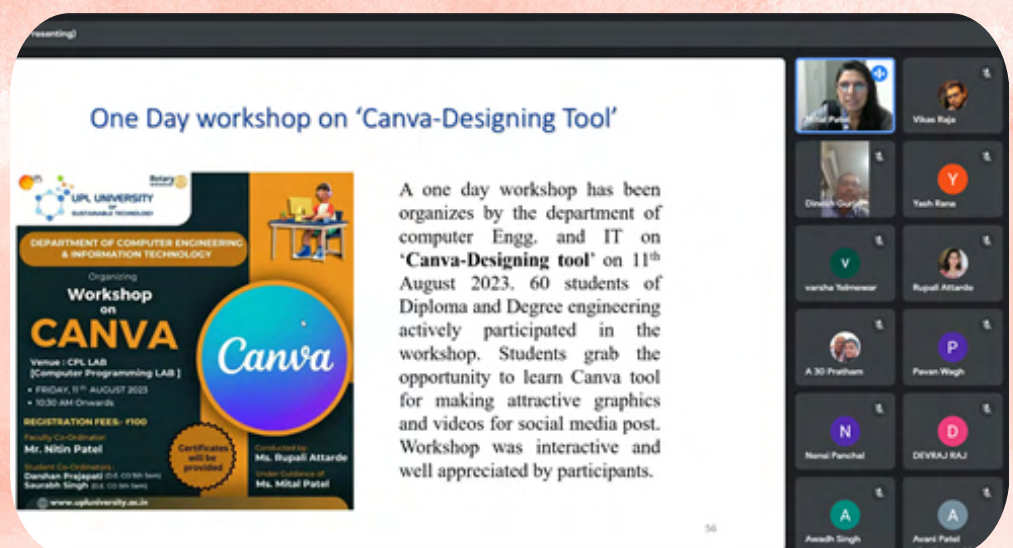
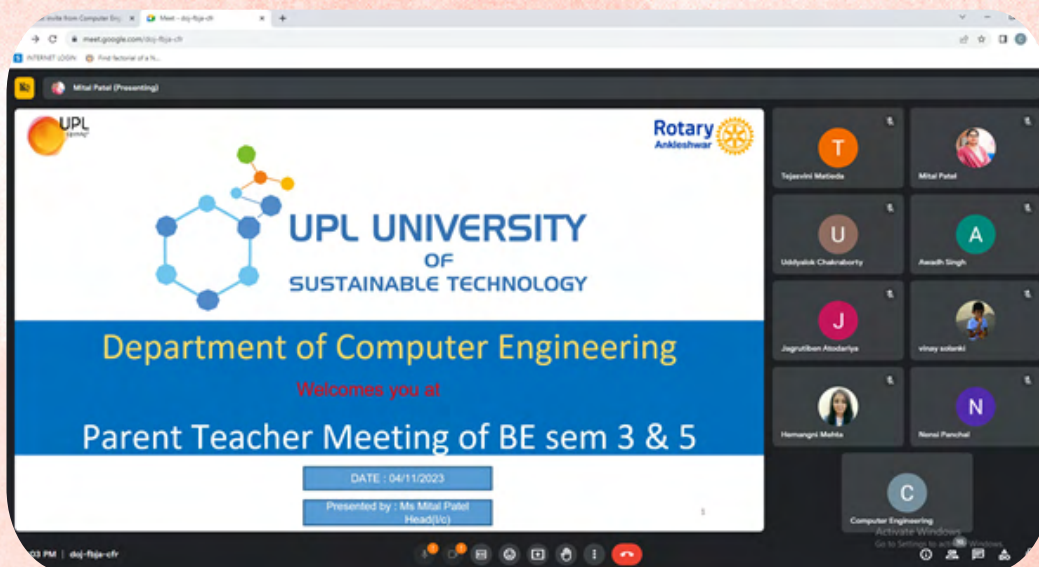
BE Sem 1 CO
Class Co-ordinator: Ms Nensi Panchal

FUN TIME



PARENT TEACHER MEET(PTM)

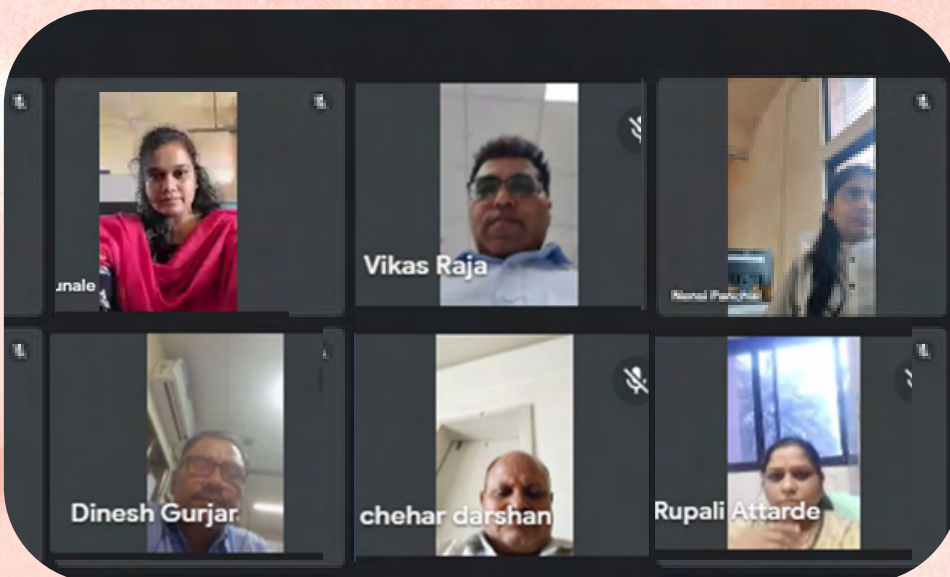
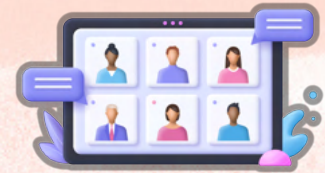
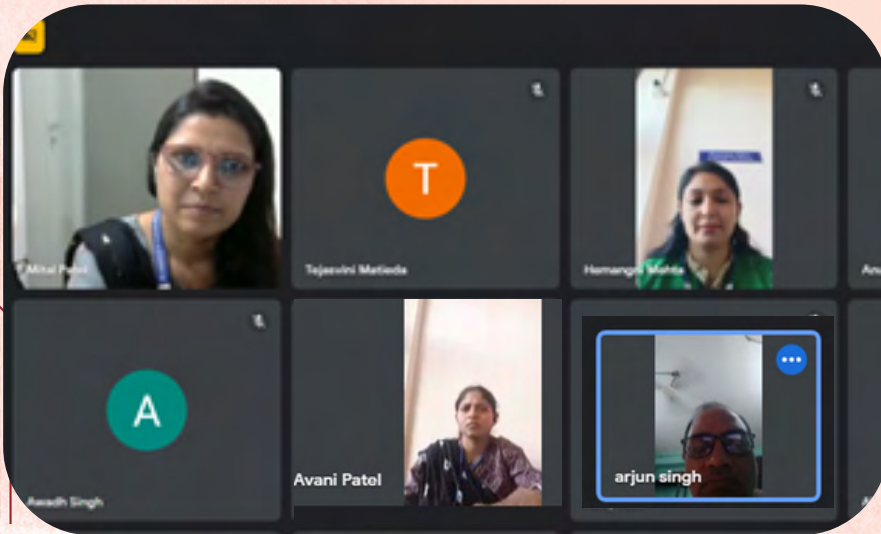
Parents-Teacher Meeting for Students of Computer Engineering Organized by SRICT at UPL University of Sustainable Technology. The Department of Computer Engineering organized a Parents-Teacher Meeting for 2nd & 3rd year B.E. and Diploma Engineering students. The meeting provided valuable information on the curriculum, results, facilities, and co-curricular and extra-curricular activities carried out by the students. Parents engaged in a candid discussion with faculty members about any difficulties their children may be facing. Overall, the parents appreciated the management's efforts towards the overall growth of the students.



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PARENT TEACHER MEET (PTM)



ONE-TO-ONE MEETING (BE CO 5TH SEM)



**BE CO
Sem. 5**

**BE CO
Sem. 3**



**D.E CO
Sem. 3**

A one to one meeting has been conducted by Dr. Omprakash Mahadwad, Dean Engineering & COE with Diploma Engineering sem 3, B.E. 3rd and 5th sem students of Computer Engineering. Sir had discussed different new initiatives of the university and taken suggestions from students. Sir personally met every student with class coordinator, Head of Department and discussed their result of mid sem exam and motivated them to improve it. Sir also discussed the problems and difficulties and gave suggestions on it. Students were encouraged and motivated for their improvement in academics and other activities.

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SHINING STARS (GOLD MEDALIST)



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SHINING STARS (10 POINTERS)

10 POINTERS: Deploma 4th Sem

| NAME | SPI | CPI |
|----------------|-----|------|
| BHONSLE MEGHAN | 10 | 9.69 |
| MEHTA POOJAN | 10 | 9.96 |
| PRASAAD PRIYA | 10 | 9.84 |
| SHUKLA NIDHI | 10 | 9.67 |
| SINGH SAURABH | 10 | 9.73 |
| SINGH SHEETAL | 10 | 9.82 |

B.E. 4th Sem

| NAME | SPI | CPI |
|--------------|-----|------|
| MANSI PARMAR | 10 | 9.66 |

Diplma 2nd Sem

| NAME | SPI | CPI |
|----------------|-----|-----|
| RANA YASHKUMAR | 10 | 10 |



SHINING STARS(SUMMER-23)



D.E. Sem 2



B.E. Sem 2



D.E. Sem 4



B.E. Sem 4

WORKSHOP ON CANVA



A one day workshop has been organized by the department of computer Engg. and IT on "Canva-Designing tool" on 11th August 2023. 60 students of Diploma and Degree engineering actively participated in the workshop. Students grab the opportunity to learn Canva tool for making attractive graphics and videos for social media post. Workshop was interactive and well appreciated by participants.

The session was delivered by Ms. Rupali Attarde, Assistant Professor, Department of Computer Engineering. She explained about canva including information, Create designs for various platforms: social media posts, presentations, posters, and more. Access a vast library of templates, graphics, and fonts. Collaborate with team members in real-time. Add elements such as text, shapes, images, and icons to your designs. Customize colors, fonts, and layouts to match your branding.

WORKSHOP ON CANVA



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SCI-TECHNOVATION-2023

“ WHERE KNOWLEDGE MEETS INNOVATION ”

The Department of Computer Engineering and The Department of Chemical Technology organized its National Level Technical Festival “Sci-Technovation’23” in its premises on 13th and 16th October 2023. The inauguration function was graced by the presence of honorable chief guest Ms. Natisha Mathur, Dy collector, Ankleshwar and the valedictory function of this technical festival was graced by Dr. Aman Desai, Co-Founder & Director, Aether Ltd., Suart.



Members of the Computer Engineering Department have been actively engaged in a variety of university activities, showcasing their keen interest in the rapidly evolving tech landscape. Their enthusiasm for the world of technology positions them to seize contemporary opportunities in the realms of science and technology. Proficient in the utilization of cutting-edge technology, particularly computers, these students demonstrate a high level of competency in navigating and leveraging modern tools.

Their proactive involvement in university activities not only enhances their teamwork and communication skills but also contributes to their holistic personal and professional development. In a field as dynamic as computer engineering, active participation ensures that students stay abreast of the latest trends and advancements, preparing them for the challenges and opportunities that lie ahead.

STUDENT PARTICIPATION IN VARIOUS ACTIVITIES



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STUDENT PARTICIPATION IN VARIOUS ACTIVITIES



STUDENT PARTICIPATION IN VARIOUS ACTIVITIES

Aadishakti'23

event conducted by Department of Computer Engineering



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ROTARY GARBA MAHOTSAV

From Department of Computer Engineering
Ms Miti Desai & Ms Juhi Limbhetwala
represented UPL University at Rotary Garba
Mahotsav, on 19/10/2023.



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STUDENT PARTICIPATION IN VARIOUS ACTIVITIES

Ganesh Chaturthi

event conducted by Department of Computer Engineering



श्री गणेशाय नमः



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POEM

**In the realm of circuits and code's embrace,
Silicon whispers weave through cyberspace.
A dance of electrons, a binary ballet,
Where bits pirouette in the light of day.**

**On a canvas of screens, pixels unite,
Creating a symphony of soft, neon light.
Keyboard keys hum, a rhythmic song,
As fingers dance, swift and strong.**

**Through networks vast, like cosmic threads,
Data journeys in ones and zeros spread.
A binary breeze, a digital tide,
In the motherboard's embrace, worlds reside.**

**In the language of algorithms, tales unfold,
As processors hum, and memories hold.
Bytes tell stories of a virtual age,
In the epic saga of the digital stage.**

**Oh, silicon heart, pulsing with might,
In the data's echo, dreams take flight.
A techno-poem, a lyrical node,
In the universe of the binary code.**

**Janvi Gangvekar
D.E. 5th sem**



ARTICLE

Title: "The Evolution of Quantum Computing: Unraveling the Future of Information Processing"

Introduction:

In the ever-evolving landscape of computer science, one of the most promising and intriguing frontiers is quantum computing. While classical computers have been the workhorses of computation for decades, the potential of quantum computers to revolutionize information processing is capturing the attention of researchers, scientists, and tech enthusiasts alike. In this article, we delve into the fundamentals of quantum computing, its current state, and the potential it holds for reshaping the future of computing.

Understanding Quantum Computing:

Quantum computing is not just an incremental advancement in classical computing; it represents a paradigm shift in the way information is processed. At its core, quantum computing leverages the principles of quantum mechanics, where quantum bits, or qubits, exist in a superposition of states. Unlike classical bits that can be either 0 or 1, qubits can exist in multiple states simultaneously. This inherent parallelism allows quantum computers to perform certain calculations exponentially faster than classical computers.

Key Components of Quantum Computing:

1. **Qubits:** The fundamental building blocks of quantum computers. Qubits can exist in a superposition of states, enabling them to perform complex computations more efficiently than classical bits.
2. **Quantum Gates:** Analogous to classical logic gates, quantum gates manipulate qubits to perform operations. Notable quantum gates include Hadamard gates, CNOT gates, and more.
3. **Quantum Entanglement:** A phenomenon where qubits become correlated and the state of one qubit instantaneously influences the state of another, regardless of the physical distance between them. This property is harnessed for quantum communication and computation.

Current State of Quantum Computing:

While quantum computing is still in its infancy, significant progress has been made in recent years. Major technology companies and research institutions are investing heavily in quantum research, leading to the development of quantum processors with increasing qubit counts. Companies like IBM, Google, and Rigetti are actively working on making quantum computers more accessible through cloud services, allowing researchers to experiment with quantum algorithms and applications.

continued....

ARTICLE

Challenges and Limitations:

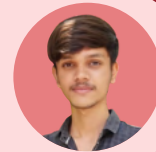
Despite the promising advancements, quantum computing faces several challenges. Qubits are notoriously fragile and prone to errors due to environmental factors, a phenomenon known as quantum decoherence. Implementing error-correction techniques and building fault-tolerant quantum computers remain significant hurdles.

Conclusion:

The evolution of quantum computing represents a thrilling chapter in the history of computer science. While challenges persist, the potential benefits and groundbreaking applications make the pursuit of quantum supremacy an exciting journey. As we stand on the brink of a quantum revolution, the fusion of classical and quantum computing technologies may redefine the limits of what is computationally possible, opening doors to unprecedented discoveries and advancements in the digital realm.

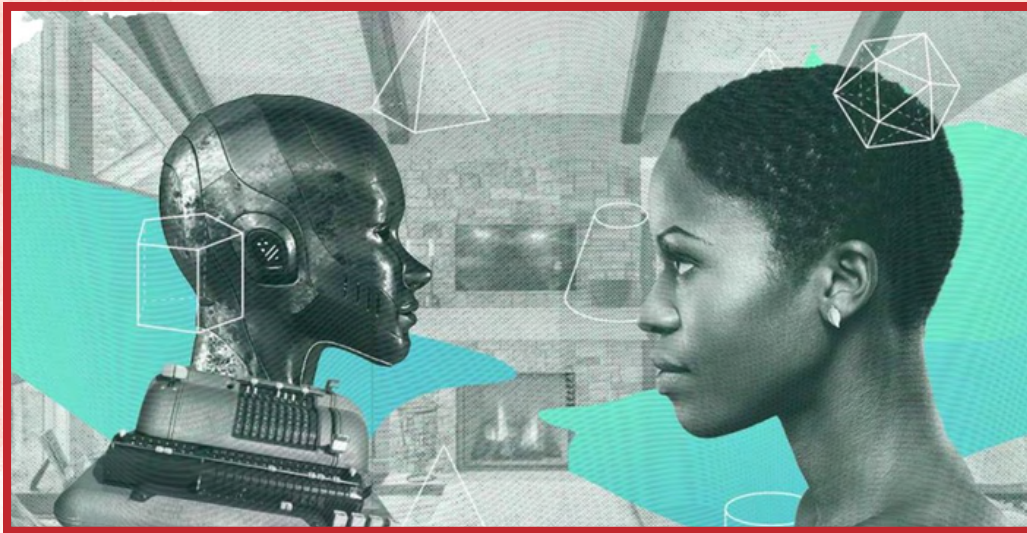


Chintan Parmar
BE Sem-6



ARTICLE

Title: Digital Revolution: Technology, Power and You



The digital revolution has already changed how people live, work, and communicate. And it's only just getting started. But the same technologies that have the potential to help billions of people live happier, healthier, and more productive lives are also creating new challenges for citizens and governments around the world. From election meddling to data breaches and cyberattacks, recent events have shown that technology is changing how we think about privacy, national security, and maybe even democracy itself.

The last 10 years have brought tremendous growth in artificial intelligence. Consumer internet companies have gathered vast amounts of data, which has been used to train powerful machine learning programs. Machine learning algorithms are widely available for many commercial applications, and some are open source. Now it's time to focus on the data that fuels these systems, according to AI pioneer Andrew Ng, SM '98, the founder of the Google Brain research lab, co-founder of Coursera, and former chief scientist at Baidu. Ng advocates for "data-centric AI," which he describes as "the discipline of systematically engineering the data needed to build a successful AI system."

AI will not only augment existing strategies for offence and defence, but also open new fronts in the battle for cyber security as malicious actors seek ways to exploit the technology's particular weaknesses (ibid., 17). One novel avenue of attack that hostile actors may use is "data poisoning." Since AI uses data to learn, hostile actors could tamper with the data set used to train the AI in order to make it do as they please.



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HAPPY
Republic Day!

